# **SAFETY DATA SHEET**



Date of issue/Date of revision 22 June 2021 Version 20.02

Section 1. Identification		
Product name	: 823-011 BASE COMPONENT	
Product code	: 823-011 BASE COMPONENT	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342	
Emergency telephone number	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

## Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2         ACUTE TOXICITY (inhalation) - Category 3         SKIN IRRITATION - Category 2         EYE IRRITATION - Category 2A         SKIN SENSITIZATION - Category 1         GERM CELL MUTAGENICITY - Category 1         CARCINOGENICITY - Category 1A         TOXIC TO REPRODUCTION - Category 2         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract         irritation) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2         Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 23.2%         (oral), 55.4% (dermal), 46.7% (inhalation)</li> </ul>
GHS label elements	

## Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs)</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. NTP, IARC and OSHA have classified chromium (+6) compounds as carcinogenic. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

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## Section 3. Composition/information on ingredients

Substance/mixture
Product name

: Mixture

: 823-011 BASE COMPONENT

Ingredient name	%	CAS number
Talc, not containing asbestiform fibers	≥20 - ≤50	14807-96-6
4-methylpentan-2-one	≥10 - ≤19	108-10-1
xylene	≥10 - ≤15	1330-20-7
strontium chromate	≥5.0 - ≤10	7789-06-2
butanone	≥5.0 - ≤9.3	78-93-3
ethylbenzene	≥1.0 - ≤3.1	100-41-4
barium chromate	<1.0	10294-40-3

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

Potential acute healt	<u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Toxic if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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## Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	<ul> <li>Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides

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#### Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a

licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact

## Section 7. Handling and storage

# Precautions for safe handling Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away

information and Section 13 for waste disposal.

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## Section 7. Handling and storage

Special precautions	:	from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Ingestion of product or cured coating may be harmful. Vapors may accumulate in low or
		confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	•	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Talc, not containing asbestiform fibers	ACGIH TLV (United States, 3/2020).
-	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m <sup>3</sup>
4-methylpentan-2-one	ACGIH TLV (United States, 3/2020).
	STEL: 75 ppm 15 minutes.
	TWA: 20 ppm 8 hours.
xylene	OSHA PEL (United States, 5/2018).
	TWA: 410 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 3/2020).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
strontium chromate	ACGIH TLV (United States, 3/2020).
	TWA: 0.0005 mg/m <sup>3</sup> , (measured as Cr) 8
	hours.
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## Section 8. Exposure controls/personal protection

	OSHA PEL Z2 (United States, 2/2013).
	CEIL: 1 mg/10m <sup>3</sup>
	OSHA PEL (United States, 5/2018).
	TWA: 0.005 mg/m³, (as Cr) 8 hours.
butanone	ACGIH TLV (United States, 3/2020).
	STEL: 885 mg/m <sup>3</sup> 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 590 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 590 mg/m <sup>3</sup> 8 hours.
	TWA: 200 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2020).
,	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
barium chromate	ACGIH TLV (United States, 3/2020).
	TWA: 0.0002 mg/m <sup>3</sup> , (measured as Cr) 8
	hours. Form: Inhalable fraction
	STEL: 0.0005 mg/m³, (measured as Cr) 15
	minutes. Form: Inhalable fraction
	OSHA PEL (United States, 5/2018).
	TWA: 0.005 mg/m³, (as Cr) 8 hours.
	OSHA PEL Z2 (United States, 2/2013).
	CEIL: 1 mg/10m <sup>3</sup>
	OSHA PEL (United States).
	TWA: 5 mg/m³
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#### Key to abbreviations

А	<ul> <li>Acceptable Maximum Peak</li> </ul>	S	<ul> <li>Potential skin absorption</li> </ul>
ACGIH	<ul> <li>American Conference of Governmental Industrial Hygienists.</li> </ul>	SR	<ul> <li>Respiratory sensitization</li> </ul>
С	= Ceiling Limit	SS	<ul> <li>Skin sensitization</li> </ul>
F	= Fume	STEL	<ul> <li>Short term Exposure limit values</li> </ul>
IPEL	<ul> <li>Internal Permissible Exposure Limit</li> </ul>	TD	= Total dust
OSHA	<ul> <li>Occupational Safety and Health Administration.</li> </ul>	TLV	= Threshold Limit Value
R	= Respirable	TWA	<ul> <li>Time Weighted Average</li> </ul>

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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## Section 8. Exposure controls/personal protection

Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

## Section 9. Physical and chemical properties

		<b>United States</b>	Page: 8/17
Auto-ignition temperature	: Not available.		
Flash point	: Closed cup: 7.22°C (45°F)		
Boiling point	: 79.44 to 144.44°C (175 to 292°F)		
Melting point	: Not available.		
рН	: Not applicable.		
Odor threshold	: Not available.		
Odor	: Not available.		
Color	: Yellow.		
Physical state	: Liquid.		
<u>Appearance</u>			

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## **Section 9. Physical and chemical properties**

Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.23
Density(lbs / gal)	: 10.26
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
VOC	: 518 g/l

## Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients.
: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides

## Section 11. Toxicological information

Information on toxicological effects Acute toxicity

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## Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure	
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours	
	LD50 Dermal	Rabbit	>5000 mg/kg	-	
	LD50 Oral	Rat	2.08 g/kg	-	
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-	
	LD50 Oral	Rat	4.3 g/kg	-	
strontium chromate	LC50 Inhalation Dusts and mists	Rat	0.27 mg/l	4 hours	
	LD50 Oral	Rat	3118 mg/kg	-	
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-	
	LD50 Oral	Rat	2737 mg/kg	-	
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours	
-	LD50 Dermal	Rabbit	17.8 g/kg	-	
	LD50 Oral	Rat	3.5 g/kg	-	

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Conclusion/Summary				
Skin	4	There are	e no data av	ailable on the mixture itself.
Eyes	4	There are	e no data av	ailable on the mixture itself.
Respiratory	4	There are	e no data av	ailable on the mixture itself.
Sensitization				
Conclusion/Summary				
Skin	4	There are	e no data av	ailable on the mixture itself.
Respiratory	1	There are	e no data av	ailable on the mixture itself.
<b>Mutagenicity</b>				
<b>Conclusion/Summary</b>	1	There are	e no data av	ailable on the mixture itself.
<b>Carcinogenicity</b>				
<b>Conclusion/Summary</b>	1	There are	e no data av	ailable on the mixture itself.
<b>Classification</b>				
Product/ingredient name		OSHA	IARC	NTP

Product/ingredient name	OSHA	IARC	NTP
4-methylpentan-2-one	-	2B	-
xylene	-	3	-
strontium chromate	+	1	Known to be a human carcinogen.
ethylbenzene	-	2B	-
barium chromate	+	1	Known to be a human carcinogen.

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself.

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## Section 11. Toxicological information

#### **Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc, not containing asbestiform fibers	Category 3	-	Respiratory tract irritation
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
strontium chromate	Category 3	-	Respiratory tract irritation
butanone	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene barium chromate	Category 2 Category 1	-	hearing organs kidneys, respiratory tract

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Target organs
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: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, peripheral nervous system, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact Inhalation Skin contact Ingestion Over-exposure signs/	<ul> <li>Causes serious eye irritation.</li> <li>Toxic if inhaled. May cause respiratory irritation.</li> <li>Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.</li> <li>No known significant effects or critical hazards.</li> </ul>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
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## Section 11. Toxicological information

Skin contact	:	Adverse symptoms may include the following:
		irritation
		redness
		dryness cracking
		reduced fetal weight
		increase in fetal deaths
		skeletal malformations
Ingestion	1	Adverse symptoms may include the following:
•		reduced fetal weight
		increase in fetal deaths
		skeletal malformations
Delayed and immediate effect	<u>cts</u> :	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	-	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health eff	iect	<u>S</u>
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	May cause genetic defects.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
Numerical measures of toxic	<u>city</u>	
Acute toxicity estimates		

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
823-011 BASE COMPONENT	2346.1	5082.3	N/A	18.6	0.96
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5
xylene	4300	1700	N/A	11	1.5
strontium chromate	500	N/A	N/A	N/A	0.27
butanone	2737	6480	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
barium chromate	500	300	N/A	11	N/A

## Section 12. Ecological information

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-			L.Y	

Product/ingredient name	Result	Species	Exposure
✓-methylpentan-2-one ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish Daphnia Fish	96 hours 48 hours 96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
methylpentan-2-one ethylbenzene	OECD 301F -		dily - 28 days dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4-methylpentan-2-one xylene ethylbenzene			-		Readily Readily Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
4-methylpentan-2-one	1.9	-	low
xylene	3.12	7.4 to 18.5	low
butanone	0.3	-	low
ethylbenzene	3.6	79.43	low

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

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Product name 823-011 BASE COMPONENT

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport if	normation		
	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	П	11	Ш
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(strontium chromate)	Not applicable.
Product RQ (lbs)	114.26	Not applicable.	Not applicable.
RQ substances	(strontium chromate, xylene)	Not applicable.	Not applicable.

#### 14. Transport information

#### Additional information

DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

# **Special precautions for user : Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Version 20.02

## Product name 823-011 BASE COMPONENT

## 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

#### United States

United States inventory (TSCA 8b) : All components are active or exempted.

United States - TSCA 12(b) - Chemical export notification:

#### strontium chromate

Annual notification

TSCA 6 final risk management: strontium chromate; barium chromate

#### SARA 302/304

SARA 304 RQ : Not applicable.

#### Composition/information on ingredients

No products were found.

#### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	GERM CELL MUTAGENICITY - Category 1
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
Talc, not containing asbestiform	≥20 - ≤50	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibers		(Respiratory tract irritation) - Category 3
4-methylpentan-2-one	≥10 - ≤19	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
xylene	≥10 - ≤15	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
strontium chromate	≥5.0 - ≤10	ACUTE TOXICITY (oral) - Category 4
	-0.010	ACUTE TOXICITY (inhalation) - Category 2
		United States Page: 15/17

Product name 823-011 BASE COMPONENT

## Section 15. Regulatory information

-	-	· · · · · · · · · · · · · · · · · · ·
		SKIN SENSITIZATION - Category 1B
		GERM CELL MUTAGENICITY - Category 2
		CARCINOGENICITY - Category 1B
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
butanone	≥5.0 - ≤9.3	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
ethylbenzene	≥1.0 - ≤3.1	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
barium chromate	<1.0	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		RESPIRATORY SENSITIZATION - Category 1B
		SKIN SENSITIZATION - Category 1B
		GERM CELL MUTAGENICITY - Category 1B
		CARCINOGENICITY - Category 1A
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
		HNOC - Avoid contact with organic materials.
		-

#### <u>SARA 313</u>

Supplier notification	Chemical name	<u>CAS number</u>	<u>Concentration</u>
	: 4-methylpentan-2-one	108-10-1	10 - 30
	xylene	1330-20-7	10 - 30
	strontium chromate	7789-06-2	5 - 10
	ethylbenzene	100-41-4	1 - 5
	barium chromate	10294-40-3	0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

California Prop. 65

**WARNING**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

## Section 16. Other information

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Hazardous Material Information System (U.S.A.)
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Health : 4 \* Flammability : 3 Physical hazards : 0 (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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# **SAFETY DATA SHEET**



Date of issue/Date of revision 22 June 2021 Version 11.01

Section 1. Identification		
Product name	: 910-099 CURING SOLUTION	
Product code	: 910-099 CURING SOLUTION	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Fardener.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342	
Emergency telephone number	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

## Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 6.3% (oral), 40.5% (dermal)</li> </ul>
GHS label elements	

**GHS label elements** 

## Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. (nose/sinuses, respiratory system)</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	<ul> <li>IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.</li> <li>Photosensitive agents : In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact. In case of accidental attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.</li> </ul>
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 2. Hazards identification

Supplemental label elements	: Moisture-sensitive material. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture
Product name

: Mixture

oon na ta		NII/COLO
name	:	910-099 CURING SOLUTION

Ingredient name	%	CAS number
Isocyanic acid, polymethylenepolyphenylene ester	≥20 - ≤50	9016-87-9
4,4'-methylenediphenyl diisocyanate	≥20 - ≤44	101-68-8
butanone	≥10 - <20	78-93-3
o-(p-isocyanatobenzyl)phenyl isocyanate	≥1.0 - ≤5.0	5873-54-1
methylenediphenyl diisocyanate	≥1.0 - ≤4.6	26447-40-5
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene-p-phenylene] diisocyanate	≥1.0 - ≤5.0	17589-24-1
2,2'-methylenediphenyl diisocyanate	<1.0	2536-05-2
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha hydroomegahydroxypoly(oxy-1,2-ethanediyl)	<1.0	57636-09-6

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

Eye contact

: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

## Section 4. First aid measures

	In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> <li>In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Most important symptoms/e	ffects, acute and delayed
Potential acute health effect	ets and a second se
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

United States Page: 4/18

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	-	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	-	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively,

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or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

disposal container. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Special provisions	: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

Conditions for safe storage,	: Do not store above the following temperature: 50°C (122°F). Store in accordance with
including any	local regulations. Store in a segregated and approved area. Store in original container
incompatibilities	protected from direct sunlight in a dry, cool and well-ventilated area, away from
	incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate
	all ignition sources. Separate from oxidizing materials. Keep container tightly closed
	and sealed until ready for use. Containers that have been opened must be carefully
	resealed and kept upright to prevent leakage. Do not store in unlabeled containers.
	Use appropriate containment to avoid environmental contamination.
	Precautions should be taken to minimize exposure to atmospheric humidity or water.
	CO <sub>2</sub> will be formed, which, in closed containers, could result in pressurization.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits				
Isocyanic acid, polymethylenepolyphenylene ester	CA Alberta Provincial (Canada, 6/2018).				
	8 hrs OEL: 0.07 mg/m³ 8 hours.				
	8 hrs OEL: 0.005 ppm 8 hours.				
4,4'-methylenediphenyl diisocyanate	ACGIH TLV (United States, 3/2020).				
	TWA: 0.005 ppm 8 hours.				
	OSHA PEL (United States, 5/2018).				
	CEIL: 0.2 mg/m <sup>3</sup>				
	CEIL: 0.02 ppm				
	ACGIH TLV (United States, 1/2007).				
	TWA: 0.05 mg/m <sup>3</sup> 8 hours.				
butanone	ACGIH TLV (United States, 3/2020).				
	STEL: 885 mg/m <sup>3</sup> 15 minutes.				
	STEL: 300 ppm 15 minutes.				
	TWA: 590 mg/m <sup>3</sup> 8 hours.				
	TWA: 200 ppm 8 hours.				
	OSHA PEL (United States, 5/2018).				
	TWA: 590 mg/m <sup>3</sup> 8 hours.				
	TWA: 200 ppm 8 hours.				
o-(p-isocyanatobenzyl)phenyl isocyanate	None.				
methylenediphenyl diisocyanate	None.				
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene-p-	None.				
phenylene] diisocyanate					
2,2'-methylenediphenyl diisocyanate	None.				
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha	None.				
hydroomegahydroxypoly(oxy-1,2-ethanediyl)					
Key to abbreviations					
A = Acceptable Maximum Peak	S = Potential skin absorption				
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization				
C = Ceiling Limit F = Fume	SS = Skin sensitization STEL = Short term Exposure limit values				
F = Fume IPEL = Internal Permissible Exposure Limit	STEL = Short term Exposure limit values TD = Total dust				
DSHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value				
R = Respirable	TWA = Time Weighted Average				
7 – OSHA 20 CEP 1010 1200 Subport 7 Toxis and Hazardous Substances					

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

## Section 8. Exposure controls/personal protection

Recommended monitoring procedures	:	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.				
Appropriate engineering controls	:	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation other engineering controls to keep worker exposure to airborne contaminants below a recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.				
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.				
Individual protection measur	es					
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.				
Eye/face protection	1	Chemical splash goggles.				
Skin protection						
Hand protection	-	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.				
Gloves Body protection	:	polyethylene butyl rubber Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti- static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.				
Other skin protection	:	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.				
Respiratory protection	:	Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. The respiratory protection shall be in accordance to 29 CFR 1910.134.				

Section 8. Exposure controls/personal protection

#### Restrictions on use

: Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

## Section 9. Physical and chemical properties

1	Liquid.
1	Clear.
1	Not available.
1	Not available.
4	Not applicable.
4	Not available.
1	79.44°C (175°F)
1	Closed cup: -5.56°C (22°F)
1	Not available.
1	Not available.
1	Not available.
:	Not available.
1	1.18
1	9.85
1	Insoluble in the following materials: cold water.
:	Not applicable.
:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
:	118 g/l
. :	90

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	<ul> <li>In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.</li> </ul>
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
	United States Page: 9/18

Section 10. Stability and reactivity

Hazardous decomposition products

: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isocyanic acid, polymethylenepolyphenylene ester	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-
4,4'-methylenediphenyl diisocyanate	LD50 Oral	Rat	9200 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
methylenediphenyl diisocyanate	LD50 Dermal	Rabbit	>9400 mg/kg	-
•	LD50 Oral	Rat	>10000 mg/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-methylenediphenyl diisocyanate	Skin - Irritant	Rabbit	-	-	-

#### **Conclusion/Summary**

: T	here are no	data	available	on the	mixture itself.
-----	-------------	------	-----------	--------	-----------------

Eyes

Skin

: There are no data available on the mixture itself.

- Respiratory
- : There are no data available on the mixture itself.

#### Sensitization

Product/ingredient name	Route of exposure	Species	Result	
4,4'-methylenediphenyl diisocyanate	skin	Mouse	Sensitizing	
-	Respiratory	Guinea pig	Sensitizing	
methylenediphenyl diisocyanate	skin	Guinea pig	Sensitizing	
,	Respiratory	Guinea pig	Sensitizing	
Conclusion/Summary				
Skin	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no o	data available on the mixture itself.		

**Carcinogenicity** 

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## Section 11. Toxicological information

Product/ingredient name	Result			Species	Dose	Exposure
4,4'-methylenediphenyl diisocyanate	Positive - Inhalation - TC		тс	Rat	0 to 6 mg/m <sup>3</sup>	2 years; 5 days per week
Conclusion/Summary	: There are no data available			on the mixture i	tself.	
<b>Classification</b>	<u>.</u>	-				
Product/ingredient name	OSHA	IARC	NTP			
Isocyanic acid, polymethylenepolyphenylene ester 4,4'-methylenediphenyl	-	3	-			
diisocyanate						
Carcinogen Classification of	code:	•				
IARC: 1, 2A, 2B, 3, 4 NTP: Known to be OSHA: + Not listed/not regula	a human carc	inogen; Reas	onably a	nticipated to be a h	numan carcinogen	
Reproductive toxicity	<b>T</b> 1					
· · · · · · · · · · · · · · · · · · ·	I nere are	no data av	allable (	on the mixture it	Self.	
<u>Teratogenicity</u> Conclusion/Summary :	There are	no data av	ailable (	on the mixture it	solf	
Specific target organ toxicity						
Name				Category	Route of exposure	Target organs
Isocyanic acid, polymethylenep	olyphenyler	ie ester		Category 3	-	Respiratory tract irritation
4,4'-methylenediphenyl diisocya	inate			Category 3	-	Respiratory tract irritation
butanone				Category 3	-	Narcotic effects
o-(p-isocyanatobenzyl)phenyl is	ocyanate			Category 3	-	Respiratory tract irritation
methylenediphenyl diisocyanate	9			Category 3	-	Respiratory tract irritation
2,4-dioxo-1,3-diazetidine-1,3-dip p-phenylene] diisocyanate	ylbis[p-pher	ylenemethy	ylene-	Category 3	-	Respiratory tract irritation
2,2'-methylenediphenyl diisocya	inate			Category 3	-	Respiratory tract irritation
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly(oxy-1,2-ethanediyl)				Category 3	-	Respiratory tract

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Isocyanic acid, polymethylenepolyphenylene ester 4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate methylenediphenyl diisocyanate 2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene- p-phenylene] diisocyanate 2,2'-methylenediphenyl diisocyanate Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly(oxy-1,2-ethanediyl)	Category 2 Category 2 Category 2 Category 2 Category 2 Category 2 Category 2	inhalation inhalation - - inhalation - inhalation	- respiratory system - - nose/sinuses - nose/sinuses

Target organs

: Contains material which causes damage to the following organs: lungs, brain, upper respiratory tract, eyes, nose/sinuses, throat.

Contains material which may cause damage to the following organs: kidneys, the nervous system, peripheral nervous system, skin, central nervous system (CNS).

#### Aspiration hazard

Not available.

#### Information on the likely routes of exposure

Potential acute health effec	t <mark>s</mark>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	oms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
Delayed and immediate offer	to and also chronic offects from chart and long term expective

Delayed and immediate effects and also chronic effects from short and long term exposure

## Section 11. Toxicological information

Conclusion/Summary	:	There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health eff	ect	<u>s</u>
General	:	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.
Numerical measures of toxic	city	
Acute toxicity estimates		

## Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
910-099 CURING SOLUTION	27287.7	N/A	N/A	26	2.8
Isocyanic acid, polymethylenepolyphenylene ester	49000	N/A	N/A	N/A	1.5
4,4'-methylenediphenyl diisocyanate	9200	N/A	N/A	11	N/A
butanone	2737	6480	N/A	N/A	N/A
o-(p-isocyanatobenzyl)phenyl isocyanate	N/A	N/A	N/A	11	1.5
methylenediphenyl diisocyanate	N/A	N/A	N/A	11	1.5
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p- phenylenemethylene-p-phenylene] diisocyanate	N/A	N/A	N/A	N/A	1.5
2,2'-methylenediphenyl diisocyanate	N/A	N/A	N/A	11	1.5
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydroomegahydroxypoly(oxy- 1,2-ethanediyl)	N/A	N/A	N/A	N/A	1.5

## Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
methylenediphenyl diisocyanate	Acute LC50 >100 mg/l	Fish	96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
4,4'-methylenediphenyl diisocyanate	4.51	-	high
butanone o-(p-isocyanatobenzyl)phenyl isocyanate	0.3 4.51	-	low high
methylenediphenyl diisocyanate	4.51	-	high
2,2'-methylenediphenyl diisocyanate	5.22	-	high

#### Mobility in soil Soil/water partition

coefficient (Koc)

: Not available.

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

#### 14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	П	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	14625.9	Not applicable.	Not applicable.
RQ substances	(4,4'-methylenediphenyl diisocyanate, butanone)	Not applicable.	Not applicable.

#### Additional information

- **DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
  - **IMDG** : None identified.
- IATA : None identified.
- Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## **14. Transport information**

Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

#### United States

United States inventory (TSCA 8b) : All components are active or exempted.

#### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

#### SARA 311/312

Classification	<ul> <li>FLAMMABLE LIQUIDS - Category 2         ACUTE TOXICITY (inhalation) - Category 4         SKIN IRRITATION - Category 2         EYE IRRITATION - Category 2A         RESPIRATORY SENSITIZATION - Category 1         SKIN SENSITIZATION - Category 1     </li> </ul>
	CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
Isocyanic acid, polymethylenepolyphenylene ester	≥20 - ≤50	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
4,4'-methylenediphenyl diisocyanate	≥20 - ≤44	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED
butanone	≥10 - <20	EXPOSURE) - Category 2 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		United States Page: 16/18

#### Product code 910-099 CURING SOLUTION Product name 910-099 CURING SOLUTION

## Section 15. Regulatory information

	•	United States Page: 17/18
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alphahydro- .omegahydroxypoly(oxy- 1,2-ethanediyl)	<1.0	RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 COMBUSTIBLE DUSTS ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
2,2'-methylenediphenyl diisocyanate	<1.0	CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A
2,4-dioxo-1,3-diazetidine- 1,3-diylbis[p- phenylenemethylene-p- phenylene] diisocyanate	≥1.0 - ≤5.0	(Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2B RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1B
methylenediphenyl diisocyanate	≥1.0 - ≤4.6	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
o-(p-isocyanatobenzyl)phenyl isocyanate	≥1.0 - ≤5.0	HNOC - Defatting irritant ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
		(Narcotic effects) - Category 3

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30 - 60

15 - 40

Section 15. Regulatory information

#### <u>SARA 313</u>

#### Supplier notification

**Chemical name** 

#### CAS number

<u>nber</u> <u>Concentration</u>

: Isocyanic acid, polymethylenepolyphenylene ester9016-87-94,4'-methylenediphenyl diisocyanate101-68-8

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 3 Physical hazards : 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 3 Flamma Date of previous issue Organization that prepared the SDS	bility : 3 Instability : 1 : 6/6/2021 : EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

# **SAFETY DATA SHEET**



Date of issue/Date of revision 30 May 2021 Version 11

Section 1. Identification		
Product name	: 020-037 IFT SOLVENT REDUCER	
Product code	: 020-037 IFT SOLVENT REDUCER	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	of the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 918 262 6711	
Emergency telephone number	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

## Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUÍDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.
Precautionary statements	

#### Section 2. Hazards identification

Prevention	: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Product name	:	020-037 IFT SOLVENT REDUCER

Ingredient name	%	CAS number
butanone	≥50 - ≤75	78-93-3
n-butyl acetate	≥20 - ≤50	123-86-4

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. **Description of necessary first aid measures** 

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
	United States Page: 2/13

## Section 4. First aid measures

Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

MOST IMPORTANT Sympton	<u>ns/enects, acute and delayed</u>
Potential acute health	effects
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Indication of immediate	medical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

<u>Extinguishing media</u>	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

# Section 5. Fire-fighting measures

Specific hazards arising from the chemical	:	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits		
butanone	ACGIH TLV (United States, 3/2020).		
	STEL: 885 mg/m <sup>3</sup> 15 minutes.		
	STEL: 300 ppm 15 minutes.		
	TWA: 590 mg/m <sup>3</sup> 8 hours.		
	TWA: 200 ppm 8 hours.		
	OSHA PEL (United States, 5/2018).		
	TWA: 590 mg/m <sup>3</sup> 8 hours.		
	TWA: 200 ppm 8 hours.		
n-butyl acetate	OSHA PEL (United States, 5/2018).		
•	TWA: 710 mg/m <sup>3</sup> 8 hours.		
	TWA: 150 ppm 8 hours.		
	ACGIH TLV (United States, 3/2020).		
	STEL: 150 ppm 15 minutes.		
	TWA: 50 ppm 8 hours.		

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# Section 8. Exposure controls/personal protection

	<u> </u>		••
	Key to abbreviations		
A = Acceptable Maximum Pe		S	= Potential skin absorption
ACGIH = American Conference of C = Ceiling Limit	Governmental Industrial Hygienists.	SR SS	<ul><li>Respiratory sensitization</li><li>Skin sensitization</li></ul>
F = Fume		STEL	= Short term Exposure limit values
IPEL = Internal Permissible Expo	osure Limit	TD	= Total dust
OSHA = Occupational Safety and		TLV	= Threshold Limit Value
R = Respirable		TWA	= Time Weighted Average
Z = OSHA 29 CFR 1910.120 Consult local authorities for a	0 Subpart Z - Toxic and Hazardous Substances		
Recommended monitoring procedures	the ventilation or other control measured	g may be req sures and/or hould be ma cuments for r	uired to determine the effectiveness of the necessity to use respiratory de to appropriate monitoring standards.
Appropriate engineering	Lise only with adequate ventilation		s enclosures, local exhaust ventilation or
controls			sure to airborne contaminants below any
controls	recommended or statutory limits. T		
			plosive limits. Use explosion-proof
	ventilation equipment.		
Environmental exposure		process equi	pment should be checked to ensure
controls	they comply with the requirements		
		gineering mo	odifications to the process equipment
Individual protection measure	es		
Hygiene measures		oroughly afte	r handling chemical products, before
	eating, smoking and using the laval Appropriate techniques should be u	tory and at th used to remo e reusing. Er	
Eye/face protection	: Chemical splash goggles.		
Skin protection			
	· Chamical registant imponsious glas		a with an approved standard should be
Hand protection	worn at all times when handling che necessary. Considering the param during use that the gloves are still r noted that the time to breakthrough	emical produ- eters specific etaining their for any glove f mixtures, c	e material may be different for different onsisting of several substances, the
Gloves	: For prolonged or repeated handling	, use the foll	owing type of gloves:
	Recommended: butyl rubber		
	Not recommended: nitrile rubber		

Product name 020-037 IFT SOLVENT REDUCER

# Section 8. Exposure controls/personal protection

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Clear.	
Odor	: Not available.	
Odor threshold	Not available.	
рН	Not applicable.	
Melting point	Not available.	
Boiling point	: 79.44 to 126.11°C (175 to 259°F)	
Flash point	: Closed cup: -5.56°C (22°F)	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Evaporation rate	: Not available.	
Vapor pressure	: Not available.	
Vapor density	Not available.	
Relative density	: 0.82	
Density(lbs / gal)	: 6.84	
Solubility	: Insoluble in the following materials: cold water.	
Partition coefficient: n- octanol/water	: Not applicable.	
Viscosity	: <b>K</b> inematic (40°C (104°F)): >21 mm²/s (>21 cSt)	
VOC	: 822 g/l	

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# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
Conclusion/Summary	: There are no data available of	on the mixture itse	elf.	
<u>rritation/Corrosion</u>				
Conclusion/Summary				
Skin	: There are no data available of	on the mixture itse	elf.	
Eyes	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the mixture itself.			
Sensitization				
<u>Conclusion/Summary</u>				
Skin	: There are no data available of	on the mixture itse	elf.	
Respiratory	: There are no data available on the mixture itself.			
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available on the mixture itself.			
Carcinogenicity				
Conclusion/Summary	: There are no data available of	on the mixture itse	elf.	
Reproductive toxicity				
Conclusion/Summary	: There are no data available o	n the mixture itsel	f	

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Section 11. Toxicological information

### **Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
	Category 3 Category 3	-	Narcotic effects Narcotic effects

### Specific target organ toxicity (repeated exposure)

Not available.

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: kidneys, the nervous system, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

#### Aspiration hazard

Not available.

### Information on the likely routes of exposure

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	i <u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
<b>Delayed and immediate effects</b>	s and also chronic effects from short and long term exposure

# Section 11. Toxicological information

	-
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	<u>ects</u>
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Numerical measures of toxic	ity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
020-037 IFT SOLVENT REDUCER	3740.8	N/A	N/A	N/A	N/A
butanone	2737	6480	N/A	N/A	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A

# Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours

### Persistence and degradability

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# Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Rea	dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
n-butyl acetate	-		-		Readily	

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ቓutanone	0.3	-	low
n-butyl acetate	2.3		low

### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class (es)	3	3	3
Packing group	П	П	II
		Uni	ted States Page: 11/13

# 14. Transport information

Environmental hazards	No.	No.	No.
		Not applicable.	Not applicable.
Product RQ (lbs)	6833.8	Not applicable.	Not applicable.
RQ substances	(butanone, n-butyl acetate)	Not applicable.	Not applicable.

### **Additional information**

DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG IATA	<ul><li>None identified.</li><li>None identified.</li></ul>

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

### United States

United States inventory (TSCA 8b) : All components are active or exempted.

### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 2
	EYE IRRITATION - Category 2A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	HNOC - Defatting irritant

### Composition/information on ingredients

Name	%	Classification
butanone		FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
n-butyl acetate	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant

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## Section 15. Regulatory information

# Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 2 Flammability : 3 Physical hazards : 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Ass	ociation (U.S.A.)	
Health : 2 Flammability : 3 Instability : 0		
Date of previous issue	: 5/13/2021	
Organization that prepared the SDS	: EHS	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations	

### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Product code 823-011 BASE COMPONENT

Version 20.02

Product name 823-011 BASE COMPONENT

## Section 16. Other information

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National Fire Protection Association (U.S.A.)

Health : 4 Flamma Date of previous issue Organization that prepared the SDS	
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations</li> </ul>

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