SAFETY DATA SHEET



Date of issue/Date of revision11 December 2019Version 14.01

Section 1. Identification		
Product name	: 01R051 BASE COMPONENT	
Product code	: 01R051 BASE COMPONENT	
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 Dhanay 848 362 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	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 20.7% (Oral), 29.9% (Dermal), 72.5% (Inhalation)

Product code 01R051 BASE COMPONENT Product name 01R051 BASE COMPONENT

Section 2. Hazards identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause cancer. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical 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 attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
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.

Date of issue 11 December 2019 Version 14.01

Product name 01R051 BASE COMPONENT

Section 2. Hazards identification

Hazards not otherwise classified

: May form explosive peroxides. Hazardous reactions or instability may occur under certain conditions of storage or use. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Product name

: Mixture

: 01R051 BASE COMPONENT

Ingredient name	%	CAS number
Epoxy resin (MW ≤ 700)	≥10 - ≤20	25068-38-6
Solvent naphtha (petroleum), light aromatic	≥5.0 - ≤10	64742-95-6
Epoxy Resin (700 <mw<=1100)< td=""><td>≥5.0 - ≤10</td><td>25036-25-3</td></mw<=1100)<>	≥5.0 - ≤10	25036-25-3
ethyl acetate	≥5.0 - ≤10	141-78-6
ethyl 3-ethoxypropionate	≥5.0 - ≤10	763-69-9
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	95-63-6
toluene	≥1.0 - ≤5.0	108-88-3
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-,	≥1.0 - ≤5.0	25085-99-8
homopolymer		
4-chloro-α,α,α-trifluorotoluene	≥1.0 - ≤3.5	98-56-6
n-butyl acetate	≥1.0 - ≤5.0	123-86-4
titanium dioxide	≤1.0	13463-67-7
cumene	<1.0	98-82-8
ethylbenzene	<1.0	100-41-4

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	: 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

Section 4. First aid measures

Potential acute health effec	ts
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sympt	toms
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 reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate med	ical 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 ₂ , 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds carbonyl halides metal oxide/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, protect	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. 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	nt	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.

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.

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 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. May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). 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
Epoxy resin (MW ≤ 700)	None.
Solvent naphtha (petroleum), light aromatic	None.
Epoxy Resin (700 <mw<=1100)< td=""><td>None.</td></mw<=1100)<>	None.
ethyl acetate	ACGIH TLV (United States, 3/2019).
	TWA: 1440 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 1400 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
ethyl 3-ethoxypropionate	IPEL (PPG).
	TWA: 50 ppm
	STEL: 100 ppm
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2019).
	TWA: 123 mg/m³ 8 hours.
	TWA: 25 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2019).
	TWA: 20 ppm 8 hours.
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	None.
4-chloro-α,α,α-trifluorotoluene	IPEL (PPG).
	TWA: 25 ppm
n-butyl acetate	OSHA PEL (United States, 5/2018).
	TWA: 710 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
	ACGIH TLV (United States, 3/2019).
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2019).
	TWA: 10 mg/m³ 8 hours.
cumene	ACGIH TLV (United States, 3/2019).
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	Absorbed through skin.
	TWA: 245 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2019).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 400 mg/m 8 hours.

Key to abbreviations

Section 8. Exposure controls/personal protection

A	= Acceptable Maximum Peak		S	 Potential skin absorption
ACGIH	= American Conference of Go	American Conference of Governmental Industrial Hygienists.		 Respiratory sensitization
С	 Ceiling Limit 		SS	= Skin sensitization
F	= Fume		STEL	 Short term Exposure limit values
IPEL	= Internal Permissible Exposu	ure Limit	TD	= Total dust
OSHA	= Occupational Safety and He	ealth Administration.	TLV	= Threshold Limit Value
R	= Respirable		TWA	= Time Weighted Average
Z	= OSHA 29 CFR 1910.1200 \$	Subpart Z - Toxic and Hazardous Substances		
Consult	local authorities for ac	ceptable exposure limits.		
Recom proced	· · · · · · · · · · · · · · · · · · ·	the ventilation or other control measu	may be re res and/o ould be ma ments for	quired to determine the effectiveness of r the necessity to use respiratory ade to appropriate monitoring standards.

Appropriate engineering	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or
controls	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.

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	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 measures

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 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.
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Section 8. Exposure controls/personal protection

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.
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Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Color	Red.	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point	Not available.	
Boiling point	>37.78°C (>100°F)	
Flash point	Closed cup: -4.44°C (24°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	1.1	
Density(Ibs / gal)	9.18	
Solubility	Insoluble in the following materials: cold water.	
Partition coefficient: n- octanol/water	Not available.	
Viscosity	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)	
VOC	420 g/l	
% Solid. (w/w)	59.58	

Section 10. Stability and reactivity

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Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 10. Stability and reactivity

Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
,	LD50 Oral	Rat	>2 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
-	LD50 Oral	Rat	8400 mg/kg	-
Epoxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
ethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
,	LD50 Oral	Rat	5620 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
•	LD50 Oral	Rat	5 g/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
4-chloro- α , α , α -trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/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	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	1400 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	-

Irritation/Corrosion

Section 11. Toxicological information

	Result			Species	Score	Exposu	re	Observation
Epoxy resin (MW ≤ 700)	Skin - Mild Eyes - Mild			Rabbit Rabbit	-	-		-
Conclusion/Summary								
Skin	: There are	e no data	available	e on the mixtu	re itself.			
Eyes	: There are	e no data	available	e on the mixtu	re itself.			
Respiratory	: There are	e no data	available	e on the mixtu	re itself.			
<u>Sensitization</u>								
Product/ingredient name	Route of exposure	\$	Species			Result		
Epoxy resin (MW ≤ 700)	skin	٩	Nouse			Sensitizing		
Conclusion/Summary								
Skin	: There are	e no data	available	e on the mixtu	re itself.			
Respiratory	: There are	e no data	available	on the mixtu	re itself.			
Mutagenicity								
Conclusion/Summary	: There are	e no data	available	e on the mixtu	re itself			
Carcinogenicity								
Conclusion/Summary	· There ar	no data	available	on the mixtu	re iteelf			
· · · · · · · · · · · · · · · · · · ·		no uala	available					
<u>Classification</u>								
Product/ingredient name	OSHA	IARC	NTP					
toluene	-	3	-					
titanium dioxide cumene	-	2B 2B	- Poor	anably anticin	atod to be	e a human carci	nogon	
ethylbenzene	-	2B 2B	-			a numan carci	nogen	-
Carcinogen Classification	a code:							
IARC: 1, 2A, 2B, 3 NTP: Known to b	, 4	inogen; Re	asonably	anticipated to be	e a human	carcinogen		
OSHA: + Not listed/not reg	ulated: -							
Not listed/not reg	ulated: -							
Not listed/not reg		no data a	available	on the mixtur	e itself.			
Not listed/not reg		no data a	available	on the mixtur	e itself.			
Not listed/not region Reproductive toxicity Conclusion/Summary	: There are			on the mixtur on the mixtur				
Not listed/not regree Reproductive toxicity Conclusion/Summary	: There are : There are	no data a						
Not listed/not regree Reproductive toxicity Conclusion/Summary <u>Feratogenicity</u> Conclusion/Summary	: There are : There are	no data a			e itself.	oute of cposure	Tarç	get organs
Not listed/not regr Reproductive toxicity Conclusion/Summary <u>Feratogenicity</u> Conclusion/Summary <u>Specific target organ toxicity</u> Name	: There are : There are / (single exp	no data a <mark>osure)</mark>		on the mixtur	e itself.	posure		get organs
Not listed/not regree Reproductive toxicity Conclusion/Summary <u>Feratogenicity</u> Conclusion/Summary Specific target organ toxicity	: There are : There are / (single exp	no data a <mark>osure)</mark>		on the mixtur	e itself. R e) N		Naro Res	cotic effects piratory tract
Not listed/not registed/not reg	: There are : There are / (single exp	no data a <mark>osure)</mark>		on the mixtur Category Category 3 Category 3	e itself. R ex No	posure ot applicable. ot applicable.	Naro Res irrita	cotic effects piratory tract
Not listed/not regr Reproductive toxicity Conclusion/Summary <u>Feratogenicity</u> Conclusion/Summary <u>Specific target organ toxicity</u> Name	: There are : There are / (single exp	no data a <mark>osure)</mark>		on the mixtur Category Category 3	e itself. R ey No No No	t posure ot applicable.	Naro Res irrita Naro	cotic effects piratory tract tion
Not listed/not regination in the image of th	: There are : There are / (single exp	no data a <mark>osure)</mark>		on the mixtur Category 3 Category 3 Category 3 Category 3 Category 3	e itself. Ri e) Ni Ni Ni	posure ot applicable. ot applicable. ot applicable. ot applicable.	Naro Res irrita Naro Res irrita	cotic effects piratory tract tion cotic effects piratory tract tion
Not listed/not regination of the second seco	: There are : There are / (single exp	no data a <mark>osure)</mark>		on the mixtur Category Category 3 Category 3 Category 3	e itself. Ri e) Ni Ni Ni	posure ot applicable. ot applicable. ot applicable.	Naro Res irrita Naro Res irrita	cotic effects piratory tract tion cotic effects piratory tract

Section 11. Toxicological information

4	1-chloro-α,α,α-trifluorotoluene	Category 3	Not applicable.	Respiratory tract	
r	n-butyl acetate	Category 3	Not applicable.	irritation Narcotic effects	
C	cumene	Category 3	Not applicable.	Respiratory tract irritation	

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
toluene	Category 2	Not determined	Not determined
			Not determined
ethylbenzene	Category 2	Not determined	hearing organs

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, heart, upper respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health effects

Eye contact Inhalation Skin contact	 Causes serious eye irritation. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
•	
Over-exposure signs/symp	
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 reduced fetal weight increase in fetal deaths skeletal malformations

Section 11. Toxicological information

	United States Page: 13/19		
Teratogenicity	: Suspected of damaging the unborn child.		
	.		
Mutagenicity	: No known significant effects or critical hazards.		
Carcinogenicity	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.May cause cancer. Risk of cancer depends on duration and level of exposure.		
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.		
Potential chronic health eff	<u>ects</u>		
Potential delayed effects	: There are no data available on the mixture itself.		
Potential immediate effects	: There are no data available on the mixture itself.		
Long term exposure			
Potential delayed effects	: There are no data available on the mixture itself.		
Potential immediate effects	: There are no data available on the mixture itself.		
Short term exposure			
Ingestion Delayed and immediate effect Conclusion/Summary	 skeletal maliformations Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations cts and also chronic effects from short and long term exposure There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulatior In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). 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. 		
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations		
Skin contact	· Advarsa symptoms may include the following:		

Section 11. Toxicological information

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

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)
R051 BASE COMPONENT	6596.8	4788.6	N/A	101.2	8.4
Epoxy resin (MW ≤ 700)	2500	2500	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
ethyl acetate	5620	N/A	N/A	N/A	N/A
ethyl 3-ethoxypropionate	3200	10000	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
toluene	5580	8390	N/A	49	N/A
4-chloro-α,α,α-trifluorotoluene	13000	2500	N/A	33.08	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A
cumene	1400	12300	N/A	39	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Epoxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 da	ys	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Epoxy resin (MW ≤ 700) toluene ethylbenzene	- - -		-		Not read Readily Readily	dily

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
ethyl acetate	0.73	-	low
1,2,4-trimethylbenzene	3.63	120.23	low
toluene	2.73	8.32	low
n-butyl acetate	1.78	-	low
cumene	3.66	35.48	low
ethylbenzene	3.15	79.43	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	ATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	П	11	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
	I	1	United States Page: 15/19

14. Transport information

Marine pollutant substances	Not applicable.	(Epoxy resin (MW ≤ 700), Solvent naphtha (petroleum), light aromatic)	Not applicable.
Product RQ (lbs)	19214.3	Not applicable.	Not applicable.
RQ substances	🕅 ylene, toluene)	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	: 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.

Section 15. Regulatory information

United States

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

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

4-chloro- α , α , α -trifluorotoluene

One time notification

SARA 302/304 SARA 304 RQ

: Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION (Unborn child) - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant
	HNOC - May form explosive peroxides.

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
Epoxy resin (MW ≤ 700)	≥10 - ≤20	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
Solvent naphtha (petroleum),	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
light aromatic		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
Epoxy Resin (700 <mw<=1100)< td=""><td>≥5.0 - ≤10</td><td>COMBUSTIBLE DUSTS</td></mw<=1100)<>	≥5.0 - ≤10	COMBUSTIBLE DUSTS
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
ethyl acetate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
ethyl 3-ethoxypropionate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		HNOC - May form explosive peroxides.
		HNOC - Defatting irritant
1,2,4-trimethylbenzene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
toluene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
		SKIN IRRITATION - Category 2
		TOXIC TO REPRODUCTION (Unborn child) - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
Oxirane, 2,2'-[≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
(1-methylethylidene)bis	≥1.0 - ≤5.0	SKIN IRRITATION - Category 2
(4,1-phenyleneoxymethylene)]		EYE IRRITATION - Category 2A
bis-, homopolymer		SKIN SENSITIZATION - Category 1B
4-chloro-α,α,α-trifluorotoluene	≥1.0 - ≤3.5	FLAMMABLE LIQUIDS - Category 3
	-1.00.0	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
n-butyl acetate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
	-1.0 -0.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		United States Page: 17/19

Section 15. Regulatory information

titanium dioxide	≤1.0	HNOC - Defatting irritant CARCINOGENICITY - Category 2
cumene	<1.0	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4
		CARCINOGENICITY - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
	-1.0	HNOC - Defatting irritant
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (hearing organs) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant

SARA 313

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: 1,2,4-trimethylbenzene	95-63-6	1 - 5
	toluene	108-88-3	1 - 5
	ethylbenzene	100-41-4	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

Hazardous	Material	Information	System	(U.S.A.)	
I I MELLI GOGO	matorial	mornation	0,000		

Health : 2 * 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:2Flammability:3Instability:1Date of previous issue:9/24/2019

Organization that prepared : EHS the MSDS

Product name 01R051 BASE COMPONENT

Section 16. Other information

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 = Intermediate 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 revision26 November 2019Version 8

Section 1. Identification	
Product name	: 80X104A CURING SOLUTION
Product code	: 80X104A 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	: 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	 AMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 5.5% (Oral), 25.5% (Dermal), 32.3% (Inhalation)
GHS label elements	

GHS label elements

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. (kidneys)
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Do not taste or swallow. 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.
lazards not otherwise classified	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Product name

: Mixture

: 80X104A CURING SOLUTION

Ingredient name	%	CAS number
μ-chloro-α,α,α-trifluorotoluene	≥20 - ≤45	98-56-6
benzyl alcohol	≥10 - ≤17	100-51-6
Formaldehyde, polymer with benzenamine, hydrogenated	≥10 - ≤20	135108-88-2
butan-2-ol	≥5.0 - ≤10	78-92-2
4,4'-methylenebis(cyclohexylamine)	≥5.0 - ≤8.1	1761-71-3
Cyclohexanamine, 4,4'-methylenebis-, reaction products with bisphenol A	≥5.0 - ≤10	129733-57-9
diglycidyl ether homopolymer		
Mixture of Cycloaliphatic Amines	≥1.0 - ≤4.2	Not available.
2,4,6-tris(dimethylaminomethyl)phenol	≤2.0	90-72-2
3,6-diazaoctanethylenediamin	≤1.1	112-24-3

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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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 health effects

Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: 📕 armful if swallowed. Corrosive to the digestive tract. Causes burns.
Over-exposure signs	/symptoms

Section 4. First aid measures

: Adverse symptoms may include the following: pain watering
redness Adverse symptoms may include the following: respiratory tract irritation coughing
Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
 Adverse symptoms may include the following: stomach pains
dical attention and special treatment needed, if necessary
 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. No specific treatment.
 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 ₂ , 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds carbonyl halides

Product name 80X104A CURING SOLUTION

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	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. 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	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				

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. 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
	United States Page: 5/16

information and Section 13 for waste disposal.

same hazard as the spilled product. Note: see Section 1 for emergency contact

Section 7. Handling and storage

	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				
🦗 chloro-α,α,α-trifluorotoluene	IPEL (PPG).				
	TWA: 25 ppm				
benzyl alcohol	IPEL (PPG).				
	TWA: 10 ppm				
	STEL: 50 ppm				
Formaldehyde, polymer with benzenamine, hydrogenated	None.				
butan-2-ol	ACGIH TLV (United States, 3/2019).				
	TWA: 303 mg/m ³ 8 hours.				
	TWA: 100 ppm 8 hours.				
	OSHA PEL (United States, 5/2018).				
	TWA: 450 mg/m ³ 8 hours.				
	TWA: 150 ppm 8 hours.				
4,4'-methylenebis(cyclohexylamine)	None.				
Cyclohexanamine, 4,4'-methylenebis-, reaction products with bisphenol	None.				
A diglycidyl ether homopolymer					
Mixture of Cycloaliphatic Amines	None.				
2,4,6-tris(dimethylaminomethyl)phenol	None.				
3,6-diazaoctanethylenediamin	IPEL (PPG). Absorbed through skin.				
	TWA: 1 ppm				
Key to abbreviations					
A = Acceptable Maximum Peak	S = Potential skin absorption				
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization				
C = Ceiling Limit	SS = Skin sensitization				
F = Fume	STEL = Short term Exposure limit values				
	United States Page: 6/16				

= Total dust

= Threshold Limit Value

= Time Weighted Average

TD

TLV

TWA

Product name 80X104A CURING SOLUTION

Section 8. Exposure controls/personal protection

IPEL = Internal Permissible Exposure Limi

OSHA = Occupational Safety and Health Administration.

R = Respirable Z = OSHA 29 (

= 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				
Environmental exposure controls	:	ventilation equipment. 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	<u>'es</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 and face shield.				
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	4	nitrile neoprene				
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 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.

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Section 8. Exposure controls/personal protection

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.	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 worker are exposed to concentrations above the exposure limit, they must use appropriate,
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Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 22.22°C (72°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	: 1.11
Density(lbs / gal)	: 9.26
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
VOC	: 362 g/l
% Solid. (w/w)	: 35.84

Section 10. Stability and reactivity

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Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.				
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				
Chemical stability	: The product is stable.				
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.				

Section 10. Stability and reactivity

Incompatible materials		Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.			
Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.			

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4 -chloro- α, α, α -trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
butan-2-ol	LC50 Inhalation Vapor	Rat	48500 mg/m ³	4 hours
	LD50 Oral	Rat	2054 mg/kg	-
4,4'-methylenebis	LD50 Dermal	Rabbit	2.11 g/kg	-
(cyclohexylamine)			00	
	LD50 Oral	Rat	0.625 g/kg	-
Mixture of Cycloaliphatic Amines	LD50 Dermal	Rabbit	>1 g/kg	-
2,4,6-tris	LD50 Dermal	Rabbit	1.28 g/kg	-
(dimethylaminomethyl)phenol			00	
	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
3,6-diazaoctanethylenediamin	LD50 Dermal	Rabbit	805 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-

Conclusion/Summary :

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₹,4,6-tris (dimethylaminomethyl)phenol	Skin - Visible necrosis	Rabbit	-	4 hours	7 days

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitization	

Section 11. Toxicological information

	•		
Product/ingredient name	Route of exposure	Species	Result
Formaldehyde, polymer with benzenamine, hydrogenated	skin	Guinea pig	Sensitizing
2,4,6-tris (dimethylaminomethyl)phenol	skin	Guinea pig	Sensitizing
3,6-diazaoctanethylenediamin	skin	Guinea pig	Sensitizing
Conclusion/Summary			

<u>Conclusion/Summary</u>	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Constitution to visit	

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
4-chloro- α , α , α -trifluorotoluene	Category 3	Not applicable.	Respiratory tract irritation
butan-2-ol	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 2 Category 2		kidneys Not determined

Target organs

: Contains material which causes damage to the following organs: blood, kidneys, liver, heart, brain, central nervous system (CNS). Contains material which may cause damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, eyes.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

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Section 11. Toxicological information

Ingestion	: ⊮ armful if swallowed. Corrosive to the digestive tract. Causes burns.
Over-exposure signs/symp	i <u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Delayed and immediate effe	cts 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.
<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	: There are no data available on the mixture itself.
effects Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	iects
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	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
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Section 11. Toxicological information

Numerical measures of toxicity

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)
OX104A CURING SOLUTION	1569.2	2124.7	N/A	N/A	6.2
4-chloro-α,α,α-trifluorotoluene	13000	2500	N/A	33.08	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
Formaldehyde, polymer with benzenamine, hydrogenated	500	N/A	N/A	N/A	N/A
butan-2-ol	2054	N/A	N/A	48.5	N/A
4,4'-methylenebis(cyclohexylamine)	625	2110	N/A	N/A	N/A
Mixture of Cycloaliphatic Amines	500	1100	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
3,6-diazaoctanethylenediamin	2500	1100	N/A	N/A	N/A

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
Formaldehyde, polymer with benzenamine, hydrogenated	Acute EC50 63 mg/l	Fish	96 hours
2,4,6-tris (dimethylaminomethyl)phenol	Acute LC50 175 mg/l	Fish	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
penzyl alcohol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	1.1	-	low
Formaldehyde, polymer with benzenamine, hydrogenated	-	209 to 219	low
butan-2-ol	0.61	-	low
3,6-diazaoctanethylenediamin	-1.66 to -1.4	-	low

Mobility in soil

Soil/water partition : coefficient (K_{oc})

: Not available.

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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	UN3470	UN3470	UN3470		
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE		
Transport hazard class (es)	8 (3)	8 (3)	8 (3)		
Packing group	11	П	П		
Environmental hazards Marine pollutant substances	No. Not applicable.	No. Not applicable.	No. Not applicable.		

Additional information

- **DOT** : None identified.
- **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.

Section 15. Regulatory information

United States

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

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

4-chloro-α,α,α-trifluorotoluene

One time notification

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 (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) - Category 2
	HNOC - Defatting irritant

HNOC - Corrosive to digestive tract

Composition/information on ingredients

Name	%	Classification
#-chloro-α,α,α-trifluorotoluene	≥20 - ≤45	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
benzyl alcohol	≥10 - ≤17	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
Formaldehyde, polymer with	≥10 - ≤20	ACUTE TOXICITY (oral) - Category 4
benzenamine, hydrogenated		SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (kidneys) (oral) - Category 2
butan-2-ol	≥5.0 - ≤10	HNOC - Defatting irritant
bulan-2-01	25.0 - ≤10	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
4,4'-methylenebis	≥5.0 - ≤8.1	ACUTE TOXICITY (oral) - Category 4
(cyclohexylamine)		SKIN CORROSION - Category 1B
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Section 15. Regulatory information

		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) (oral) - Category 2
Cyclohexanamine, 4,4'-	≥5.0 - ≤10	COMBUSTIBLE DUSTS
methylenebis-, reaction products		SKIN CORROSION - Category 1C
with bisphenol A diglycidyl ether		SERIOUS EYE DAMAGE - Category 1
homopolymer		
Mixture of Cycloaliphatic Amines	≥1.0 - ≤4.2	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		EYE IRRITATION - Category 2A
2,4,6-tris(dimethylaminomethyl)	≤2.0	ACUTE TOXICITY (oral) - Category 4
phenol		ACUTE TOXICITY (dermal) - Category 4
		SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
3,6-diazaoctanethylenediamin	≤1.1	ACUTE TOXICITY (dermal) - Category 4
-		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
		HNOC - Corrosive to digestive tract

<u>SARA 313</u>

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: butan-2-ol	78-92-2	5 - 10

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 - www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)									
Health			*	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 Association (U.S.A.)

Health : 3 Flammability : 3 Instability : 0 Date of previous issue : 9/24/2019 Organization that prepared : EHS the MSDS Product code 80X104A CURING SOLUTION Product name 80X104A CURING SOLUTION

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Section 16. Other information

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 = Intermediate 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

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