AkzoNobel

# **SAFETY DATA SHEET**

### High Solids Epoxy Fuel Tank Primer 10P30-1

## Section 1. Identification

GHS product identifier Other means of identification	<ul> <li>High Solids Epoxy Fuel Tank Primer 10P30-1</li> <li>10P30-1_Integral Fuel Tank Primer</li> </ul>
Relevant identified uses of the	substance or mixture and uses advised against : FOR INDUSTRIAL USE ONLY
Supplier/Manufacturer	: Akzo Nobel Coatings, Inc. 1 East Water Street Waukegan, IL 60085 USA Tel. 1 847 623 4200 Email: customer. service@akzonobel.com
Canadian Supplier	<ul> <li>Akzo Nobel Coatings Ltd.</li> <li>110 Woodbine Downs Blvd.</li> <li>Unit #4 Etobicoke, Ontario</li> <li>Canada M9W 5S6</li> <li>+1 (800) 618-1010</li> </ul>
Emergency telephone number	: CHEMTREC +1 (800) 424-9300 (Inside the US) CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)
Date of issue / Date of revision Safety Data Sheet Version Date of printing	: 6 August 2020 : 4.01 : 6 August 2020

Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

## 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 LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 1</li> </ul>

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# Section 2. Hazards identification

GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Highly flammable liquid and vapor.</li> <li>Causes serious eye irritation.</li> <li>Causes skin irritation.</li> <li>May cause cancer.</li> <li>Causes developed a series the series of a series</li></ul>
Precautionary statements	Causes damage to organs through prolonged or repeated exposure. (lungs)
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. Ground/bond container and receiving equipment.
	Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. 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. Take off contaminated clothing and wash it before reuse. If skin irritation 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.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
crystalline silica, respirable powder	20 - 25	14808-60-7
heptan-2-one	15 - 20	110-43-0
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	15 - 20	25068-38-6
Methyl isobutyl ketone	10 - 15	108-10-1
titanium dioxide	5 - 10	13463-67-7
Mica-group minerals	5 - 10	12001-26-2
C.I. Pigment Yellow 36	1 - 5	37300-23-5
strontium chromate	1 - 5	7789-06-2
crystalline silica, respirable powder	0 - 1	14808-60-7
barium chromate	0 - 1	10294-40-3
		10204 40 0

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100-41-4

## Section 3. Composition/information on ingredients

ethylbenzene

0 - 1

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

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

Potential acute health effects		
Eye contact	Causes serious eye irritation.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	Causes skin irritation.	
Ingestion	No known significant effects or critical hazards.	
Over-exposure signs/sympton	<u>ns</u>	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	No specific data.	
Skin contact	Adverse symptoms may include the following: irritation redness	
Ingestion	No specific data.	

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## Section 4. First aid measures

#### 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. 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. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds 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, 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".	

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## Section 6. Accidental release measures

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	ontainment 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

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Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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.
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	: 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.

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# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
crystalline silica, respirable powder	<ul> <li>OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 6/2016). TWA: 50 μg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2016). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust</li> </ul>
heptan-2-one	ACGIH TLV (United States, 3/2016). TWA: 50 ppm 8 hours. TWA: 233 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 465 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours. TWA: 465 mg/m <sup>3</sup> 8 hours.
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin Methyl isobutyl ketone	None. ACGIH TLV (United States, 3/2018). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). STEL: 300 mg/m <sup>3</sup> 15 minutes. STEL: 75 ppm 15 minutes. TWA: 205 mg/m <sup>3</sup> 10 hours. TWA: 205 mg/m <sup>3</sup> 10 hours. TWA: 50 ppm 10 hours. OSHA PEL (United States, 5/2018). TWA: 410 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
titanium dioxide	OSHA PEL (United States, 6/2016). TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust ACGIH TLV (United States, 3/2016). TWA: 10 mg/m <sup>3</sup> 8 hours.
Mica-group minerals	ACGIH TLV (United States, 3/2016). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 3 mg/m <sup>3</sup> 10 hours. Form: Respirable fraction OSHA PEL Z3 (United States, 6/2016). TWA: 20 mppcf 8 hours.

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Section 8. Exposure controls/pers	onal protection
C.I. Pigment Yellow 36	OSHA PEL (United States, 6/2016). TWA: 0.005 mg/m <sup>3</sup> , (as Cr) 8 hours. OSHA PEL Z2 (United States, 2/2013). CEIL: 1 mg/10m <sup>3</sup> NIOSH REL (United States, 10/2016). TWA: 0.0002 mg/m <sup>3</sup> , (as CR) 8 hours. ACGIH TLV (United States, 3/2016). TWA: 0.01 mg/m <sup>3</sup> , (measured as Cr) 8 hours.
strontium chromate	<ul> <li>ACGIH TLV (United States, 3/2016).</li> <li>TWA: 0.0005 mg/m<sup>3</sup>, (measured as Cr) 8 hours.</li> <li>OSHA PEL Z2 (United States, 2/2013).</li> <li>CEIL: 1 mg/10m<sup>3</sup></li> <li>OSHA PEL (United States, 6/2016).</li> <li>TWA: 0.005 mg/m<sup>3</sup>, (as Cr) 8 hours.</li> <li>NIOSH REL (United States, 10/2016).</li> <li>TWA: 0.0002 mg/m<sup>3</sup>, (as CR) 8 hours.</li> </ul>
crystalline silica, respirable powder	OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable OSHA PEL (United States, 6/2016). TWA: 50 µg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2016). TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m³ 10 hours. Form: respirable dust
barium chromate	OSHA PEL Z2 (United States, 2/2013). CEIL: 1 mg/10m <sup>3</sup> ACGIH TLV (United States, 3/2016). TWA: 0.01 mg/m <sup>3</sup> , (measured as Cr) 8 hours. Form: Insoluble OSHA PEL (United States, 6/2016). TWA: 0.005 mg/m <sup>3</sup> , (as Cr) 8 hours. NIOSH REL (United States, 10/2016). TWA: 0.0002 mg/m <sup>3</sup> , (as CR) 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2017). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). STEL: 545 mg/m <sup>3</sup> 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m <sup>3</sup> 10 hours. TWA: 100 ppm 10 hours. OSHA PEL (United States, 6/2016). TWA: 435 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

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# Section 8. Exposure controls/personal protection

Appropriate engineering controls Environmental exposure controls Individual protection measures Hygiene measures Eye/face protection Skin protection Hand protection	<ul> <li>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.</li> <li>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.</li> <li>Wash hands, forearms and face thoroughly after handling chemical products, before</li> </ul>
controls Individual protection measure Hygiene measures Eye/face protection Skin protection	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.
Hygiene measures Eye/face protection <u>Skin protection</u>	—
Eye/face protection	Wash hands, forearms and face thoroughly after handling chemical products, before
Skin protection	eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
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.
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.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

Appearance			
	Physical state	:	Liquid.
	Color	:	Yellow.
Odor		:	Solvent.
Odor threshold		:	Not available.
рН		:	Not available.

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Section 9. Physical	and chemical properties	
Melting/freezing point	Not available.	
Boiling point	: 117°C (242.6°F)	
boiling range	Not available.	
Flash point	: Closed cup: 16°C (60.8°F)	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Upper/lower flammability or ex	osive limits	
Upper:	Not determined.	
Lower:	Not determined.	
Vapor pressure	: Not available.	
Vapor density	Not available.	
Relative density	: 1.355	
Density	: 11.31 lbs/gal 1.355 g/cm <sup>3</sup>	
Solubility	: Not available.	
Solubility in water	: Not available.	
Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	: Kinematic (room temperature): 0.3 cm <sup>2</sup> /s (30 cSt)	
Weight Volatiles	: 29.77% (w/w)	
Volume Volatiles	: 49.80 %(v/v)	
Weight Solids	: 70.23 %(w/w)	
Volume Solids	: 50.2 %(v/v)	
Regulatory VOC	3.4 lbs/gal 403 g/l minus water and exempt solvents	
VOC Actual	3.4 lbs/gal 403 g/l	

# 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	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials

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## Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
heptan-2-one	LD50 Oral	Rat	1600 mg/kg	-
Methyl isobutyl ketone	LD50 Oral	Rat	2080 mg/kg	-
C.I. Pigment Yellow 36	LD50 Oral	Rat	640 mg/kg	-
strontium chromate	LD50 Oral	Rat	3118 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	LD50 Oral	Rat	3500 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
heptan-2-one	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				milligrams	
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
Methyl isobutyl ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Eyes - Severe irritant	Rabbit	-	40 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity Not available.

**Classification** 

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## Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, respirable powder	-	1	Known to be a human carcinogen.
Methyl isobutyl ketone	-	2B	-
titanium dioxide	-	2B	-
C.I. Pigment Yellow 36	+	1	Known to be a human carcinogen.
strontium chromate	+	1	Known to be a human carcinogen.
crystalline silica, respirable powder	-	1	Known to be a human carcinogen.
barium chromate	+	1	Known to be a human carcinogen.
ethylbenzene	-	2B	-

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

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

Not available.

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

Name	Category	Route of exposure	Target organs
crystalline silica, respirable powder	Category 1	Inhalation	lungs
Aspiration hazard			
Nome		a a ult	

#### Name Result ethylbenzene ASPIRATION HAZARD - Category 1

#### Information on the likely : Not available. routes of exposure Potential acute health effects

Poter	ntiai	acute	nealth	enects	
Eve		40.04			

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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## Section 11. Toxicological information

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

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
General	:	Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
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.

#### Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2649.8 mg/kg

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
heptan-2-one	Acute LC50 131000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Methyl isobutyl ketone	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2930 to 4400 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 40000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

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## Section 12. Ecological information

Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	2.26	-	low
reaction product: bisphenol-A-	2.64 to 3.78	31	low
(epichlorhydrin); epoxy resin Methyl isobutyl ketone	1.9	_	low
ethylbenzene	3.6	-	low

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

**Other adverse effects** : No known significant effects or critical hazards.

### 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.

## Section 14. Transport information

 Special precautions for user
 : Please Note: The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

 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.

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## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)			3		3
Packing group	II	II	11	II	11
Environmental hazards	No.	Yes.	No.	Yes.	No.

## Section 15. Regulatory information

**U.S. Federal regulations** 

```
Regulatory Information
```

: The zinc tetraoxy chromate in this product is identified in the EU by CAS number 49663-84-5 and EC number 256-418-0.

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

#### SARA 311/312

Classification	:	Fire hazard
		Immediate (acute) health hazard
		Delayed (chronic) health hazard

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Methyl isobutyl ketone	108-10-1	10 - 15
requirements	C.I. Pigment Yellow 36	37300-23-5	1 - 5
	strontium chromate	7789-06-2	1 - 5
	barium chromate	10294-40-3	0.1 - 1
	ethylbenzene	100-41-4	0.1 - 1
	lead	7439-92-1	0.00

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:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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## Section 15. Regulatory information

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
crystalline silica, respirable powder	Yes.	No.	No.	No.
Methyl isobutyl ketone	Yes.	No.	No.	No.
titanium dioxide	Yes.	No.	No.	No.
C.I. Pigment Yellow 36	No.	Yes.	No.	No.
strontium chromate	Yes.	Yes.	No.	No.
barium chromate	Yes.	Yes.	No.	No.
ethylbenzene	Yes.	No.	No.	No.
toluene	No.	Yes.	No.	7000 μg/day (ingestion)
phenyl glycidyl ether	Yes.	No.	Yes.	No.
lead	Yes.	Yes.	No.	Yes.
Cadmium (Non-pyrophoric)	Yes.	Yes.	0.05 μg/day (inhalation)	4.1 μg/day (ingestion)

<u>Internat</u>	ional	<u>lists</u>

National inventory		
Australia	:	At least one component is not listed.
Canada	:	At least one component is not listed.
China	:	All components are listed or exempted.
Europe	:	All components are listed or exempted.
Japan	:	Japan inventory (ENCS): At least one component is not listed. Japan inventory (ISHL): At least one component is not listed.
Malaysia	:	At least one component is not listed.
New Zealand	:	At least one component is not listed.
Philippines	:	At least one component is not listed.
Republic of Korea	:	At least one component is not listed.
Taiwan	:	All components are listed or exempted.
Turkey	:	At least one component is not listed.

## Section 16. Other information

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



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 SDSs 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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### **Section 16. Other information**

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.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

Date of issue/Date of revision Version MSDS #	:	6 August 2020 4.01 002988	0010	001B5A4220
Key to abbreviations	:	IATA = International Air T IBC = Intermediate Bulk ( IMDG = International Mar LogPow = logarithm of th	Factor zed System of Clas ransport Associatic Container ritime Dangerous G e octanol/water par Convention for the	oods tition coefficient Prevention of Pollution From Ships, 1973 as

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

For additional information call Akzo Nobel at (847) 625-4200



# **SAFETY DATA SHEET**

### **High Solids Epoxy Primer Fuel Tank Primer EC-242**

## Section 1. Identification

GHS product identifier Other means of identification	<ul> <li>High Solids Epoxy Primer Fuel Tank Primer EC-242</li> <li>EC-242_INTEGRAL FUEL TANK PRIMER ACTIVATOR</li> </ul>
Relevant identified uses of the	substance or mixture and uses advised against : FOR INDUSTRIAL USE ONLY
Supplier/Manufacturer	: Akzo Nobel Coatings, Inc. 1 East Water Street Waukegan, IL 60085 USA Tel. 1 847 623 4200 Email: customer. service@akzonobel.com
Canadian Supplier	<ul> <li>Akzo Nobel Coatings Ltd.</li> <li>110 Woodbine Downs Blvd.</li> <li>Unit #4 Etobicoke, Ontario</li> <li>Canada M9W 5S6</li> <li>+1 (800) 618-1010</li> </ul>
Emergency telephone number	: CHEMTREC +1 (800) 424-9300 (Inside the US) CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)
Date of issue / Date of revision Safety Data Sheet Version Date of printing	: 7 July 2021 : 5.12 : 7 July 2021

Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

## 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	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2

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## Section 2. Hazards identification

GHS label elements	
Hazard pictograms	
Signal word Hazard statements	<ul> <li>Danger</li> <li>Highly flammable liquid and vapor. Harmful if swallowed.</li> <li>Causes serious eye irritation.</li> <li>Causes skin irritation.</li> <li>Suspected of causing cancer.</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. 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. Ground/bond container and receiving equipment. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. 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. Take off contaminated clothing and wash it before reuse. If skin irritation 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.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
toluene	15 - 20	108-88-3
benzyl alcohol	15 - 20	100-51-6
Methyl isobutyl ketone	10 - 15	108-10-1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	5 - 10	1760-24-3
2-piperazin-1-ylethylamine	5 - 10	140-31-8
Isopropyl alcohol	5 - 10	67-63-0
bisphenol A	5 - 10	80-05-7
2,4,6-tris(dimethylaminomethyl)phenol	1 - 5	90-72-2
4-nonylphenol, branched	1 - 5	84852-15-3
benzyldimethylamine	1 - 5	103-83-3

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## Section 3. Composition/information on ingredients

3,6,9-triazaundecamethylenediamine

112-57-2

1 - 5

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

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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>
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

Potential acute health effects		
Eye contact :	Causes serious eye irritation.	
Inhalation :	No known significant effects or critical hazards.	
Skin contact	Causes skin irritation.	
Ingestion :	Harmful if swallowed.	
Over-exposure signs/sympton	ns	
Eye contact : Adverse symptoms may include the following pain or irritation watering redness		
Inhalation :	No specific data.	

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Section 4. First aid measures		
Skin contact       : Adverse symptoms may include the following:         irritation       redness		
Ingestion	: No specific data.	
Indication of immediate med	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. It may	

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information	(Section 11)
occ toxicological information	

#### Section 5. Fire-fighting measures Extinguishing media Suitable extinguishing : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur from the chemical and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Hazardous thermal : Decomposition products may include the following materials: decomposition products carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters 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** : Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters 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	: No action shall be taken involving any personal risk or without suitable training.
personnel	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	
	adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put
	on appropriate personal protective equipment.

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# Section 6. Accidental release measures

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 con	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). 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 ingest. 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.
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	: 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.

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# Section 8. Exposure controls/personal protection

### **Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
toluene	NIOSH REL (United States, 10/2016). STEL: 560 mg/m <sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m <sup>3</sup> 10 hours. TWA: 100 ppm 10 hours. OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours.
benzyl alcohol	AIHA WEEL (United States, 10/2011).
Methyl isobutyl ketone	TWA: 10 ppm 8 hours. ACGIH TLV (United States, 3/2018). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). STEL: 300 mg/m <sup>3</sup> 15 minutes. STEL: 75 ppm 15 minutes. TWA: 205 mg/m <sup>3</sup> 10 hours. TWA: 50 ppm 10 hours. OSHA PEL (United States, 5/2018). TWA: 410 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
N-(3-(trimethoxysilyl)propyl)ethylenediamine 2-piperazin-1-ylethylamine Isopropyl alcohol	None. None. ACGIH TLV (United States, 3/2016). STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. NIOSH REL (United States, 10/2016). STEL: 1225 mg/m <sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 980 mg/m <sup>3</sup> 10 hours. TWA: 400 ppm 10 hours. OSHA PEL (United States, 6/2016). TWA: 980 mg/m <sup>3</sup> 8 hours. TWA: 400 ppm 8 hours.
bisphenol A 2,4,6-tris(dimethylaminomethyl)phenol 4-nonylphenol, branched benzyldimethylamine 3,6,9-triazaundecamethylenediamine	None. None. None. <b>AIHA WEEL (United States, 10/2011).</b> <b>Absorbed through skin. Skin sensitizer.</b> TWA: 5 mg/m <sup>3</sup> 8 hours.

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# Section 8. Exposure controls/personal protection

Coolion of Expoo	
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	: 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	ures
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of 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.
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.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

#### Appearance

	Physical state	:	Liquid.
	Color	:	Yellow to red.
Odor		:	Pungent.
Odor threshold		:	Not available.
рН		:	Not available.
Melting/freezing	l point	:	Not available.

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Boiling point	:	83°C (1	181.4°F)			
boiling range	:	Not ava	ailable.			
Flash point	:	Closed	cup: 4°C	(39.2°	F)	
Evaporation rate	:	Not ava	Not available.			
Flammability (solid, gas)	:	Not ava	ailable.			
Upper/lower flammability or ex	plo	osive lin	nits			
Upper:	:	Not de	termined.			
Lower:	:	Not det	termined.			
Vapor pressure	:	Not ava	ailable.			
Vapor density	:	Not ava	ailable.			
Relative density	:	0.946				
Density	:	7.89	lbs/gal	0.9	46 g	g/cm³
Solubility	:	Not ava	ailable.			
Solubility in water	:	Not ava	ailable.			
Partition coefficient: n- octanol/water	:	Not ava	ailable.			
Auto-ignition temperature	:	Not ava	ailable.			
Decomposition temperature	:	Not ava	ailable.			
Viscosity	:	Kinema	atic (room 1	tempe	ratu	re): 0.42 cm²/s (42 cSt)
Weight Volatiles	:	53.8%	(w/w)			
Volume Volatiles	:	57.79	%(v/v)			
Weight Solids	:	46.20	%(w/w)			
Volume Solids	:	42.21	%(v/v)			
Regulatory VOC	:	4.2	lbs/gal	509	g/l	minus water and exempt solvents
VOC Actual	:	4.2	lbs/gal	509	g/l	

# 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	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LD50 Oral	Rat	636 mg/kg	-
benzyl alcohol	LC50 Inhalation Vapor	Rat	1000 ppm	8 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
Methyl isobutyl ketone	LD50 Oral	Rat	2080 mg/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Oral	Rat	2413 mg/kg	-
Isopropyl alcohol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
bisphenol A	LD50 Oral	Rat	1200 mg/kg	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl)phenol				
	LD50 Oral	Rat	1200 mg/kg	-
4-nonylphenol, branched	LD50 Oral	Rat	1300 mg/kg	-
benzyldimethylamine	LD50 Dermal	Rabbit	1660 mg/kg	-
	LD50 Oral	Rat	265 mg/kg	-
3,6,	LD50 Oral	Rat	3990 mg/kg	-
9-triazaundecamethylenediamine				

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100	
				milligrams	
	Eyes - Mild irritant	Rabbit	-	870	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				microliters	
	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
				milligrams	
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16	-
				milligrams	
	Skin - Moderate irritant	Pig	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
Methyl isobutyl ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				microliters	
	Eyes - Severe irritant	Rabbit	-	40 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
		<b>D</b> 11 11		milligrams	
N-(3-(trimethoxysilyl)propyl) ethylenediamine	Eyes - Severe irritant	Rabbit	-	15 milligrams	-
	Skin - Mild irritant	Rabbit	-	500	-

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ection 11. Toxico	logical informati	on			
				milligrams	
2-piperazin-1-ylethylamine	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
lsopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
bisphenol A	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	-			Micrograms	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	250	-
				milligrams	
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(dimethylaminomethyl)phenol	,			Micrograms	
	Skin - Mild irritant	Rat	-	0.025	-
				Mililiters	
	Skin - Severe irritant	Rat	-	0.25 Mililiters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
4-nonylphenol, branched	Eyes - Severe irritant	Rabbit	-	100	-
.,	,			milligrams	
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				milligrams	
benzyldimethylamine	Eves - Severe irritant	Rabbit	-	5 milligrams	-
son 2 yrannou rynamino	Skin - Severe irritant	Rabbit	_	4 hours 500	-
				milligrams	
3,6,	Eyes - Moderate irritant	Rabbit	_	24 hours 100	-
9-triazaundecamethylenediamine				milligrams	
	Eyes - Moderate irritant	Rabbit	-	5 milligrams	-
	Skin - Severe irritant	Rabbit	_	24 hours 5	-
		1 CODDIC		milligrams	
	Skin - Severe irritant	Rabbit	-	495	-
		1 CODDIC		milligrams	

### **Sensitization**

Not available.

### Mutagenicity

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

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Section 11. Toxico	logical	infor	nation
Product/ingredient name	OSHA	IARC	NTP
toluene Methyl isobutyl ketone Isopropyl alcohol	- -	3 2B 3	- - -
Reproductive toxicity Not available.			
<u>Teratogenicity</u> Not available.			
Specific target organ toxicit Not available.	ty (single ex	(posure)	
<u>Specific target organ toxicit</u> Not available.	ty (repeated	l exposure	<u>e)</u>
Aspiration hazard Not available.			
Information on the likely routes of exposure	: Not ava	ilable.	
Potential acute health effects	_		
Eye contact		-	e irritation.
Inhalation		•	ant effects or critical hazards.
Skin contact	: Causes	skin irritati	ion.
Ingestion	: Harmful	if swallow	ed.
Symptoms related to the phy	sical, chem	ical and t	oxicological characteristics
Eye contact	: Adverse pain or i watering redness	rritation	s may include the following:
Inhalation	: No spec	ific data.	
Skin contact	: Adverse irritation redness		s may include the following:
Ingestion	: No spec	ific data.	
Delayed and immediate effect	ts and also	chronic e	effects from short and long term exposure
Short term exposure			
Potential immediate effects	: Not ava	ilable.	
Potential delayed effects	: Not ava	ilable.	
Long term exposure Potential immediate	: Not ava	ilable.	
- #			

effects

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## Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
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.

### Numerical measures of toxicity

#### Acute toxicity estimates

ATE value	
1160.1 mg/kg 6681.6 mg/kg	

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
benzyl alcohol	Acute LC50 10000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
Methyl isobutyl ketone	Acute LC50 505000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 78 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 168 mg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
2-piperazin-1-ylethylamine	Acute LC50 2190000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 to 1950000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
bisphenol A	Acute EC50 1000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 1.506 mg/l Marine water	Algae - Prorocentrum minimum - Exponential growth phase	72 hours
	Acute EC50 7.75 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.34 mg/l Marine water	Crustaceans - Americamysis bahia - Larvae	48 hours
	Acute LC50 3.5 mg/l Marine water	Fish - Rivulus marmoratus - Embryo	96 hours
	Chronic NOEC 2 mg/l Fresh water	Algae - Chlorolobion braunii - Exponential growth phase	4 days
	Chronic NOEC 10 µg/l Marine water	Crustaceans - Tigriopus japonicus - Nauplii	21 days
	Chronic NOEC 30 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days

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### Section 12. Ecological information

	-		
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Carassius auratus - Adult	90 days
4-nonylphenol, branched	Acute EC50 0.03 mg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 0.027 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 137 to 160 µg/l Marine water	Crustaceans - Eohaustorius	48 hours
		estuarius - Adult	
	Acute LC50 17 µg/l Marine water	Fish - Pleuronectes americanus -	96 hours
		Larvae	
	Chronic EC10 0.012 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Chronic NOEC 5 µg/l Fresh water	Crustaceans - Gammarus	21 days
		fossarum - Adult	
	Chronic NOEC 7.4 µg/l Fresh water	Fish - Pimephales promelas -	33 days
		Embryo	
benzyldimethylamine	Acute LC50 37800 to 39900 μg/l Fresh water	Fish - Pimephales promelas	96 hours
	Water		

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	90	low
benzyl alcohol	0.87	-	low
Methyl isobutyl ketone	1.9	-	low
2-piperazin-1-ylethylamine	-1.48	-	low
Isopropyl alcohol	0.05	-	low
bisphenol A	3.4	20 to 67	low
2,4,6-tris	0.219	-	low
(dimethylaminomethyl)phenol			
4-nonylphenol, branched	5.4	740	high
benzyldimethylamine	1.98	6.2 to 22	low

#### Mobility in soil

Soil/water partition : No coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

### 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

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: Not available.

### Section 13. Disposal considerations

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.

### Section 14. Transport information

**Special precautions for user** : Please Note: The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

**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.

	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN3469	UN3469	UN3469	UN3469	UN3469
UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8)	3 (8)	3 (8)	3 (8)	3 (8)
Packing group	Ш	11	11	11	11
Environmental hazards	No.	Yes.	No.	Yes.	No.

## Section 15. Regulatory information

#### **U.S. Federal regulations**

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

#### SARA 311/312

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## Section 15. Regulatory information

Classification

: Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

#### SARA 313

	Product name	CAS number	%
requirements	Methyl isobutyl ketone	108-88-3 108-10-1 80-05-7	15 - 20 10 - 15 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:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
toluene	No.	Yes.	No.	7000 μg/day (ingestion)
Methyl isobutyl ketone bisphenol A	Yes. No.	-	No. No.	No. Yes.

#### International lists

National inventory	
Australia	At least one component is not listed.
Canada	All components are listed or exempted.
China	All components are listed or exempted.
Europe	All components are listed or exempted.
Japan	Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): At least one component is not listed.
Malaysia	At least one component is not listed.
New Zealand	All components are listed or exempted.
Philippines	All components are listed or exempted.
Republic of Korea	All components are listed or exempted.
Taiwan	All components are listed or exempted.
Turkey	At least one component is not listed.

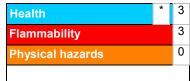
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## Section 16. Other information

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



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 SDSs 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.)



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#### **History**

Date of issue/Date of revision Version MSDS #	:	7 July 2021 5.12 004669	0005	002FBE4A40
Key to abbreviations	:	IATA = International Air T IBC = Intermediate Bulk ( IMDG = International Mar LogPow = logarithm of th	Factor zed System of Clas ransport Associatic Container ritime Dangerous G e octanol/water par Convention for the	oods tition coefficient Prevention of Pollution From Ships, 1973 as

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## Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.