

SAFETY DATA SHEET

Epoxy Coating Anti-Static 10P2-3

Section 1. Identification

GHS product identifier Other means of identification	 Epoxy Coating Anti-Static 10P2-3 10P2-3_Epoxy Coating Anti-Static
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	: Akzo Nobel Coatings Ltd. 110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6 +1 (800) 618-1010
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	: 5 January 2022 : 4.09 : 5 January 2022

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	 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 CARCINOGENICITY - Category 2

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Section 2. Hazard	Is identification
<u>GHS label elements</u> Hazard pictograms	
Signal word Hazard statements	 Danger Highly flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. Suspected of causing cancer.
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. Wash hands thoroughly after handling.
Response	: 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

: Mixture

Substance/mixture

Ingredient name	%	CAS number
butanone	30 - 35	78-93-3
xylene	15 - 20	1330-20-7
trizinc bis(orthophosphate)	5 - 10	7779-90-0
carbon black, respirable powder	5 - 10	1333-86-4
Methyl isobutyl ketone	5 - 10	108-10-1
cyclohexanone	1 - 5	108-94-1
ethylbenzene	1 - 5	100-41-4
toluene	1 - 5	108-88-3
butan-1-ol	1 - 5	71-36-3

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.

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Section 3. Composition/information on ingredients

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

Section 4. First aid measures

Description of necess	ary first aid measures
Eye contact	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.
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. 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.
<u>Over-exposure signs/sympto</u>	o <u>ms</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.
Indication of immediate medic	al 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.

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Section 4. First aid measures

Protection of first-aiders : No action

: 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)

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. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides 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	ve 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 containment and cleaning up

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Section 6. Accidental release measures

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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
butanone	ACGIH TLV (United States, 3/2016). STEL: 885 mg/m ³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 590 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. NIOSH REL (United States, 10/2016). STEL: 885 mg/m ³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 590 mg/m ³ 10 hours. TWA: 200 ppm 10 hours. TWA: 200 ppm 10 hours. TWA: 590 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
xylene	ACGIH TLV (United States, 3/2016). STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. OSHA PEL (United States, 6/2016). TWA: 435 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
trizinc bis(orthophosphate) carbon black, respirable powder	None. ACGIH TLV (United States, 3/2016). TWA: 3 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 3.5 mg/m ³ 10 hours. TWA: 0.1 mg of PAHs/cm ³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 3.5 mg/m ³ 8 hours.
Methyl isobutyl ketone	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 ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 205 mg/m ³ 10 hours. TWA: 50 ppm 10 hours. OSHA PEL (United States, 5/2018). TWA: 410 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
cyclohexanone	ACGIH TLV (United States, 3/2016). Absorbed through skin. STEL: 50 ppm 15 minutes. TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 100 mg/m ³ 10 hours. TWA: 25 ppm 10 hours. OSHA PEL (United States, 6/2016).

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	TWA: 200 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2017). TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2016). STEL: 545 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m ³ 10 hours. TWA: 100 ppm 10 hours. OSHA PEL (United States, 6/2016). TWA: 435 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
bluene	 NIOSH REL (United States, 10/2016). STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 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.
butan-1-ol	ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). Absorbed through skin. CEIL: 150 mg/m ³ CEIL: 50 ppm OSHA PEL (United States, 6/2016). TWA: 300 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.

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 Individual protection measures	: 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.
marriadar protootion medeare	<u>-</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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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Section 8. Exposure controls/personal protection

ear complying with an approved standard should be used when a risk indicates this is necessary to avoid exposure to liquid splashes, mists, sts. If contact is possible, the following protection should be worn, unless nent indicates a higher degree of protection: chemical splash goggles.
sistant, impervious gloves complying with an approved standard should be mes when handling chemical products if a risk assessment indicates this is Considering the parameters specified by the glove manufacturer, check hat the gloves are still retaining their protective properties. It should be the time to breakthrough for any glove material may be different for different facturers. In the case of mixtures, consisting of several substances, the me of the gloves cannot be accurately estimated.
otective equipment for the body should be selected based on the task being nd the risks involved and should be approved by a specialist before s product. When there is a risk of ignition from static electricity, wear anti- tive clothing. For the greatest protection from static discharges, clothing de anti-static overalls, boots and gloves.
footwear and any additional skin protection measures should be selected e task being performed and the risks involved and should be approved by a fore handling this product.
e hazard and potential for exposure, select a respirator that meets the standard or certification. Respirators must be used according to a protection program to ensure proper fitting, training, and other important se.

Section 9. Physical and chemical properties

Appearance

, appearance				
Physical state	:	Liquid.		
Color	:	Black.		
Odor	:	Solvent.		
Odor threshold	:	Not available.		
рН	:	Not available.		
Melting/freezing point	:	Not available.		
Boiling point	:	80°C (176°F)		
boiling range	:	Not available.		
Flash point	:	Closed cup: -4°C (24.8°F)		
Evaporation rate	:	: Not available.		
Flammability (solid, gas)	: Not available.			
Upper/lower flammability or exp	plo	osive limits		
Upper:	:	: Not determined.		
Lower:	:	Not determined.		
Vapor pressure	:	Not available.		
Vapor density	:	Not available.		
Relative density	:	: 0.991		
Density	:	8.27 lbs/gal 0.991 g/cm ³		
Solubility	:	Not available.		

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Section 9. Physica	l a	nd c	hemic	al p	oro	perties
Solubility in water	:	Not av	ailable.			
Partition coefficient: n- octanol/water	:	Not av	ailable.			
Auto-ignition temperature	:	Not av	ailable.			
Decomposition temperature	:	Not av	Not available.			
Viscosity	:	Kinema	atic (room	tempe	eratu	re): 5.55 cm²/s (555 cSt)
Weight Volatiles	:	66.21%	6 (w/w)			
Volume Volatiles	:	78.70	%(v/v)			
Weight Solids	:	33.79	%(w/w)			
Volume Solids	:	21.3	%(v/v)			
Regulatory VOC	:	5.5	lbs/gal	656	g/l	minus water and exempt solvents
VOC Actual	:	5.5	lbs/gal	656	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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
xylene	LD50 Oral	Rat	4300 mg/kg	-
carbon black, respirable powder	LD50 Oral	Rat	>15400 mg/kg	-
Methyl isobutyl ketone	LD50 Oral	Rat	2080 mg/kg	-
cyclohexanone	LD50 Oral	Rat	1800 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
5	LD50 Oral	Rat	3500 mg/kg	-
toluene	LD50 Oral	Rat	636 mg/kg	-

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Section 11. Toxicological information

butan-1-ol	LD50 Dermal LD50 Oral	Ra Ra	bbit t	3400 mg/kg 790 mg/kg	-
rritation/Corrosion		1\a		1 So mg/kg	
Product/ingredient name	Result	Species	Score	Exposure	Observation
butanone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 50	D - 0
				milligrams	
xylene	Eyes - Mild irritant	Rabbit	-	87 milligram	s -
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	-
				microliters	
	Skin - Moderate irritant	Rabbit	-	24 hours 50	0 -
				milligrams	
	Skin - Moderate irritant	Rabbit	-	100 Percent	
Methyl isobutyl ketone	Eyes - Moderate irritant	Rabbit	-	24 hours 10	0 -
				microliters	
	Eyes - Severe irritant	Rabbit	-	40 milligram	
	Skin - Mild irritant	Rabbit	-	24 hours 50	0 -
				milligrams	_
cyclohexanone	Eyes - Severe irritant	Rabbit	-	24 hours 25	0 -
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	20 milligram	
	Skin - Mild irritant	Human	-	48 hours 50	-
		Dahkit		Percent	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
	Okin Mild initent	Dabbit		milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
taluana	Even Mild irritent	Dabbit		milligrams	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100	-
	Eyes - Mild irritant	Rabbit		milligrams 870	
		Tabbit	-	Micrograms	
	Eyes - Severe irritant	Rabbit	_	24 hours 2	
		ιταυσιι		milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 25	n I-
		' '9		microliters	
	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
				milligrams	
butan-1-ol	Eyes - Severe irritant Rab		-	24 hours 2	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	0.005	-
	-			Mililiters	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-

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Section 11. Toxicological information

milligrams

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
xylene	-	3	-
carbon black, respirable powder	-	2B	-
Methyl isobutyl ketone	-	2B	-
cyclohexanone	-	3	-
ethylbenzene	-	2B	-
toluene	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely
routes of exposure: Not available.Potential acute health effects: Causes serious eye irritation.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

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Euro comto of	A develope a symptome many individe the following:
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.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
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 eff	ects
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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2593 mg/kg
Dermal	117186.7 mg/kg

Section 12. Ecological information

Toxicity

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Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
butanone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 to 6440000 µg/l	Daphnia - Daphnia magna -	48 hours
	Fresh water	Larvae	
	Acute LC50 5600 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
carbon black, respirable powder	Acute EC50 37.563 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 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
cyclohexanone	Acute EC50 32.9 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
	Acute LC50 630000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic EC10 3.56 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
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
butan-1-ol	Acute EC50 1983000 to 2072000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1910000 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
butanone	0.3	-	low
xylene	3.12	8.1 to 25.9	low
trizinc bis(orthophosphate)	-	60960	high
Methyl isobutyl ketone	1.9	-	low
cyclohexanone	0.86	-	low
ethylbenzene	3.6	-	low
toluene	2.73	90	low
butan-1-ol	1	-	low

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Section 12. Ecological information 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

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.

with soil, waterways, drains and sewers.

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.

cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact

	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	3	3
Packing group	11		11		11

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

International Paint LLC

Epoxy Coating Anti-Static 10P2-3

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Section 14. Transport informationEnvironmental
hazardsNo.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

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

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	xylene trizinc bis(orthophosphate) Methyl isobutyl ketone ethylbenzene toluene butan-1-ol	1330-20-7 7779-90-0 108-10-1 100-41-4 108-88-3 71-36-3	15 - 20 5 - 10 5 - 10 1 - 5 1 - 5 1 - 5 1 - 5

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
carbon black, respirable powder	Yes.	No.	No.	No.
Methyl isobutyl ketone	Yes.	No.	No.	No.
ethylbenzene	Yes.	No.	No.	No.
toluene	No.	Yes.	No.	7000 µg/day (ingestion)

International lists

National inventory	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	 At least one component is not listed in EINECS but all such components are listed in ELINCS. Please contact your supplier for information on the inventory status of this material.
Japan	: Japan inventory (ENCS): At least one component is not listed.
-	Japan inventory (ISHL): At least one component is not listed.

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

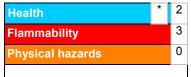
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Section 15. Regulatory information

: At least one component is not listed.
: All components are listed or exempted.
: At least one component is not listed.
: All components are listed or exempted.
: All components are listed or exempted.
: 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.

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.

<u>History</u>

Date of issue/Date of revision	: 5 January 2022	
Version	: 4.09	
MSDS #	: 002987 0006	000D185B20

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



SAFETY DATA SHEET

Epoxy Coating Anti-Static EC-110

Section 1. Identi	fication
GHS product identifier	: Epoxy Coating Anti-Static EC-110
SDS code	:
Relevant identified uses o	of the substance or mixture and uses advised against
	Identified uses
Hardener. Industrial use	
	Uses advised against
Consumer use	
Product use	:
Manufacturer Emergency telephone	 Akzo Nobel Coatings, Inc. 1 East Water Street Waukegan, IL 60085 USA Tel. 1 847 623 4200 Email: customer.service@akzonobel.com Akzo Nobel Coatings Ltd. 110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6 +1 (800) 618-1010 CHEMTREC +1 (800) 424-9300 (Inside the US)
number (with hours of operation)	CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)
Section 2. Hazar	ds 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 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 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

GHS label elements

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Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction. 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. Ground/bond container and receiving equipment. 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 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 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. 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.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
toluene	≥25 - ≤50	108-88-3
Isopropyl alcohol	≥25 - ≤50	67-63-0
N-(3-(trimethoxysilyl)propyl)ethylenediamine	≤5	1760-24-3
2,4,6-tris(dimethylaminomethyl)phenol	<5	90-72-2

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.

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Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a 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	1
Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain 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

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Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
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. 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. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides 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	Evacuate surrounding are entering. Do not touch or No flares, smoking or flan	nvolving any personal risk or without s eas. Keep unnecessary and unprotect walk through spilled material. Shut o nes in hazard area. Do not breathe va ar appropriate respirator when ventilat rotective equipment.	ed personnel from ff all ignition sources. apor or mist. Provide
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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 co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact 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.
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. See Section 10 for incompatible materials before handling or use.



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/m³ 15 minutes.STEL: 150 ppm 15 minutes.TWA: 375 mg/m³ 10 hours.TWA: 100 ppm 10 hours.OSHA PEL Z2 (United States, 2/2013).AMP: 500 ppm 10 minutes.CEIL: 300 ppmTWA: 200 ppm 8 hours.ACGIH TLV (United States, 3/2019).TWA: 20 ppm 8 hours.OSHA PEL 1989 (United States, 3/1989).Notes: See Table Z-2.STEL: 560 mg/m³ 15 minutes.STEL: 150 ppm 15 minutes.TWA: 375 mg/m³ 8 hours.TWA: 100 ppm 8 hours.
Isopropyl alcohol	ACGIH TLV (United States, 3/2019). Notes: Refers to Appendix A Carcinogens. ACGIH 2003 Adoption STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. NIOSH REL (United States, 10/2016). STEL: 1225 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 980 mg/m ³ 10 hours. TWA: 400 ppm 10 hours. OSHA PEL (United States, 5/2018). TWA: 980 mg/m ³ 8 hours. TWA: 400 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). STEL: 1225 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 980 mg/m ³ 8 hours. TWA: 980 mg/m ³ 8 hours. TWA: 980 mg/m ³ 8 hours. TWA: 980 mg/m ³ 8 hours.
N-(3-(trimethoxysilyl)propyl)ethylenediamine 2,4,6-tris(dimethylaminomethyl)phenol	None. None.

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 measures

Section 8. Exposure controls/personal protection

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	: 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 and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
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	:	Yellowish.		
Odor	:	Pungent.		
Odor threshold	:	Not available.		
рН	:	Not available.		
Melting/freezing point	:	Not available.		
Boiling point	:	83°C (181.4°F)		
boiling range	:	Not available.		
Flash point	:	Closed cup: 4°C (39.2°F)		
Evaporation rate	:	Not available.		
Flammability (solid, gas)	:	Not available.		
Upper/lower flammability or ex	plo	sive limits		
Upper:	:	Not determined.		
Lower:	:	Not determined.		
Vapor pressure	:	Not available.		
Vapor density	:	Not available.		
Relative density	:	0.839		
Density	:	7.00 lbs/gal 0.839 g/cm ³		
Solubility	:	Not available.		
Solubility in water	:	Not available.		
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Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (room te	mperature): 0.48 cm²/s (48 cSt)
Weight Volatiles	95.52% (w/w)	
Volume Volatiles	96.13 %(v/v)	
Weight Solids	4.48 %(w/w)	
Volume Solids	3.87 %(v/v)	
Regulatory VOC	6.7 lbs/gal 8	301 g/l minus water and exempt solvents
VOC Actual	6.7 lbs/gal 8	301 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.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Gas.	Mouse	400 ppm	24 hours
	LC50 Inhalation Vapor	Mouse	30000 mg/m ³	2 hours
	LC50 Inhalation Vapor	Mouse	19900 mg/m ³	7 hours
	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	14100 uL/kg	-
	LD50 Intraperitoneal	Guinea pig	500 mg/kg	-
	LD50 Intraperitoneal	Mouse	59 mg/kg	-
	LD50 Intraperitoneal	Rat	1332 mg/kg	-
	LD50 Intravenous	Rat	1960 mg/kg	-
	LD50 Oral	Rat	636 mg/kg	-
	LD50 Route of exposure	Mouse	2 g/kg	-
	unreported			
	LD50 Route of exposure	Rat	6900 mg/kg	-
	unreported			
	LD50 Subcutaneous	Mouse	2250 mg/kg	-
Isopropyl alcohol	LC50 Inhalation Gas.	Rat	16000 ppm	8 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Intraperitoneal	Guinea pig	2560 mg/kg	-
	LD50 Intraperitoneal	Mouse	4477 mg/kg	-
	LD50 Intraperitoneal	Rabbit	667 mg/kg	-
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Epoxy Coating Anti-Static EC-110

Section 11. Toxicological information

	0			
	LD50 Intraperitoneal	Rat	2735 mg/kg	-
	LD50 Intravenous	Mouse	1509 mg/kg	-
	LD50 Intravenous	Rabbit	1184 mg/kg	-
	LD50 Intravenous	Rat	1088 mg/kg	-
	LD50 Oral	Mouse	3600 mg/kg	-
	LD50 Oral	Mouse	3600 mg/kg	-
	LD50 Oral	Rabbit	6410 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Intravenous	Mouse	180 mg/kg	-
	LD50 Oral	Rat	2413 mg/kg	-
	LD50 Oral	Rat	7460 uL/kg	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
(dimethylaminomethyl)phenol			0.0	
	LD50 Oral	Rat	1200 mg/kg	-
	LD50 Oral	Rat	1673 mg/kg	-
	LD50 Oral	Rat	2169 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Isopropyl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	Eyes - Severe irritant	Rabbit	-	15 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
2,4,6-tris	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(dimethylaminomethyl)phenol				ug	
	Skin - Mild irritant	Rat	-	0.025 MI	-
	Skin - Severe irritant	Rat	-	0.25 MI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Severe irritant	Rabbit	-	24 hours 500	-
				UI	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP	
toluene Isopropyl alcohol	-	3 3	-	
Reproductive toxicity				
te of issue/Date of revision	: 9/10/202	22	Version : 1.01	
te of previous issue	: 9/10/202	22	9/16	AkzoNobel

Section 11. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
toluene Isopropyl alcohol	0,		Narcotic effects Narcotic effects

Specific target organ toxicity (repeated exposure)

Information on the likely : Not available.

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

Aspiration hazard

routes of exposure

Name	Result
toluene	ASPIRATION HAZARD - Category 1

	-		
<u>Potential</u>	<u>acute</u>	<u>health</u>	<u>effects</u>

Eye contact	: Causes serious eye damage.
Inhalation	 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Inhalation	 Adverse symptoms may includ pain watering redness Adverse symptoms may includ nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths 	-
Skin contact	 skeletal malformations Adverse symptoms may includ pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations 	e the following:
Ingestion	: Adverse symptoms may includ stomach pains reduced fetal weight increase in fetal deaths skeletal malformations	e the following:
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Section 11. Toxicological information

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

Short term exposure	· · · · · ·
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. 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	: Suspected of damaging the unborn child.
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 Inhalation (dusts and mists)	1105.2 mg/kg 3.236 mg/l		

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure	
oluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours	
	Acute EC50 16500 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours	
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours	
	Acute EC50 6.88 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute EC50 6.56 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute EC50 19600 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours	
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours	
	Acute EC50 6780 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours	
	Acute LC50 15500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours	
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Section 12. Ecological information

	ological information		
	Acute LC50 56.3 ppm Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 86.3 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Acute LC50 6410 µg/l Marine water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
	Acute LC50 5800 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 6780 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 2 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
sopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 7550 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 9550 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 6550000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 9640000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 10400000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	90	low
Isopropyl alcohol	0.05	-	low
2,4,6-tris	0.219	-	low
(dimethylaminomethyl)phenol			

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.

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Section 14. Transport information

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.

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

Additional information DOT Classification : Reportable guantity 2120.6 lbs / 962.73 kg [303.13 gal / 1147.5 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. **Special provisions** 383 **TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). IMDG : Emergency schedules F-E, S-E Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 5(a)2 final significan	t new use rules: No products found	d.		
	TSCA 5(e) substance cons	ent order: No products found.			
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined				
	United States inventory (TSCA 8b): All components are listed or exempted.				
	Clean Water Act (CWA) 307	': toluene			
	Clean Water Act (CWA) 311	: toluene			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Listed				
Clean Air Act Section 602 Class I Substances	: Not listed				
Clean Air Act Section 602 Class II Substances	: Not listed				
DEA List I Chemicals (Precursor Chemicals)	: Not listed				
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Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals) : Listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
No products were found.						

SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	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

Composition/information on ingredients

Name	%	Classification
toluene	≥25 - ≤50	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
propan-2-ol	≥25 - ≤50	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
N-(3-(trimethoxysilyl)propyl)	≤5	ACUTE TOXICITY (inhalation) - Category 4
ethylenediamine		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
2,4,6-tris(dimethylaminomethyl)	<5	ACUTE TOXICITY (oral) - Category 4
phenol		SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1

<u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	toluene	108-88-3	≥25 - ≤50
Supplier notification	toluene	108-88-3	≥25 - ≤50

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.

State regulations

Massachusetts	: The following componen ALCOHOL; 2-PROPANC	ts are listed: TOLUENE; METHYLBEN DL	ZENE; ISOPROPYL
New York	: The following component	ts are listed: Toluene	
New Jersey	: The following componen ALCOHOL; 2-PROPANC	ts are listed: TOLUENE; BENZENE, M DL	IETHYL-; ISOPROPYL
Pennsylvania	: The following componen	ts are listed: BENZENE, METHYL-; 2-	PROPANOL
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Section 15. Regulatory information

California Prop. 65

WARNING: Reproductive Harm - www.P65Warnings.ca.gov.

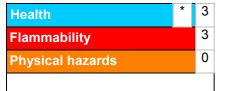
Ingredient name	No significant risk level	Maximum acceptable dosage level
toluene methanol	-	Yes. Yes.

Inventory list

intenter j net	
Australia	: All components are listed or exempted.
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): All components are listed or exempted.
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.
Thailand	: At least one component is not listed.
Turkey	: All components are listed or exempted.
Viet Nam	: All components are listed or exempted.

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.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

<u>History</u>

Date of issue/Date of revision Date of previous issue



Section 16. Other information

Date of printing	: 10 September 2022
Date of issue/ Date of revision	: 10 September 2022
Date of previous issue	: 10 September 2022
Version	: 1.01
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
—	

Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws. Any person using this product must determine for themselves, by preliminary tests or otherwise, the suitability of this product for their purposes. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. The application, use and processing of AkzoNobel's products and the products manufactured by Buyer on the basis of AkzoNobel's technical advice are beyond AkzoNobel's control and, therefore, entirely Buyer's own responsibility. AkzoNobel makes no warranty as to accuracy and/ or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is current prior to using the product.

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Section 16. Other information

: 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) UN = United Nations

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 To request an updated SDS please visit http://www.formstack.com/forms/AkzoNobel-document_request_form