SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 8 September 2023 Version 11

Section 1. Identification		
Product name	: KEELOCK H/S LIGHT ORANGE EPOXY EN	
Product code	: KL96008784	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Product use	: Industrial applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Supplier	 PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121 	
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

Section 2. Hazard identification

Classification of the substance or mixture	 AMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 1 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET OPGANITOXICITY (PEREATED EXPOSURE) - Category 1
	TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Health Hazards Not Otherwise Classified - Category 1

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Section 2. Hazard identification

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

GHS label elements		
Hazard pictograms		
Signal word	ger	
Hazard statements		
Precautionary statements		
Prevention	been read and understood or face protection. Keep aw other ignition sources. No si	e use. Do not handle until all safety precautions . Wear protective gloves, protective clothing and yay from heat, hot surfaces, sparks, open flames moking. Do not breathe vapor. Do not eat, drink or Wash thoroughly after handling. Contaminated wed out of the workplace.
Response	off immediately all contam h with plenty of water. If ski tion. IF IN EYES: Rinse ca	nedical advice or attention. IF ON SKIN (or hair): inated clothing. Rinse skin with water. IF ON SKIN: in irritation or rash occurs: Get medical advice or utiously with water for several minutes. Remove asy to do. Continue rinsing. If eye irritation persists:
Storage	e locked up.	
Disposal	ose of contents and contain nternational regulations.	er in accordance with all local, regional, national
Supplemental label elements	alline silica which can cause inds on the duration and lev spray applications. Repeate e irritation of the respiratory age. Inhalation of vapor/aer sure limits causes headach nsciousness or death. Avoir handling. Emits toxic fumes	sting of ingredient(s) of unknown acute toxicity:

Section 3. Composition/information on ingredients

Substance/mixture Product name	: Mixture : KEELOCK H/S LIGHT ORANGE EPOXY	EN
Other means of identification	: Not available.	

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
přs-[4-(2,3-epoxipropoxi)phenyl] propane	2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane; Oxirane, 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis-; Bisphenol A diglycidyl ether; Bisphenol A, diglycidyl ether; Bis-[4-(2,3-epoxypropoxy) phenyl]propane; 2,2-bis[4- (2,3-epoxypropoxy)phenyl]propane; Propane, 2,2-bis(p-(2,3-epoxypropoxy) phenyl)-; diglycidyl ether of bisphenol-A; 2,2-bis(4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether; Araldite; DIPHENYLOL PROPANE DIGLYCIDYL ETHER	15 - 40	1675-54-3
titanium dioxide	Titanium oxide; Titanium oxide (TiO2); CI 77891; Titanium peroxide; Rutile; C.I. Pigment White 6; titanium dioxide coated with isopropoxytitanium triisostearate, containing by weight 1,5 % or more but not more than 2,5 % of isopropoxytitanium triisostearate; glass flakes (CAS RN 65997-17-3): — of a thickness of 0,3 µm or more but not more than 10 µm, and — coated with titanium dioxide (CAS RN 13463-67-7) or iron oxide (CAS RN 18282- 10-5); titanium dioxide, other than those of heading 3206 11 00; C.I. 77891; E 171; titanium(IV) oxide, other than those of heading 3206 11 00	10 - 30*	13463-67-7
crystalline silica, respirable powder (<10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica- Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	10 - 30*	14808-60-7
1-methoxy-2-propanol	monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy- 2-hydroxypropane; 2-Methoxy- 1-methylethanol; PGME; mixture containing by weight: — 69 % or more but	1 - 5*	107-98-2

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Section 3. Composition/information on ingredients

		C	anada Page: 4/20
ethylbenzene	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB;	0.1 - 1*	100-41-4
Talc , not containing asbestiform fibres	Talc; magnesium silicate monohydrate (talc) not containing asbestiform fibres	1 - 5*	14807-96-6
iron hydroxide oxide yellow	C.I. Pigment Yellow 42; CI 77492; iron hydroxide oxide yellow; E 172; iron oxide yellow; C.I. 77492; iron hydroxide oxide yellow; C.I. 77492; E 172; iron oxide yellow; Iron oxide; Iron Oxide Yellow; Transparent iron oxide yellow; C.I. pigment yellow 042; FERRIC OXIDE, FERRIC HYDROXIDE, CALCIUM CARBONATE; C.I. PIGMENT YELLOW 42, (IRON OXIDE (YELLOW)); SYNTHETIC YELLOW IRON OXIDE	1 - 5*	51274-00-1
xylene	Benzene, dimethyl-; Xylol; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-,; Xylene (mixed); Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture); xylene (mixture), including m- xylene, o-xylene, p-xylene; XYLENE, mixture of isomers	1 - 5*	1330-20-7
oxirane, mono[(C12-14-alkyloxy) methyl] derivs.	Oxirane, 2-[(C12-14-alkyloxy)methyl] derivs.; Alkyl (C12-C14) Glycidyl Ether; Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives; (C12-14) Alkylglycidyl ether; Oxirane, mono((C12-14-alkyloxy)methyl) derivatives; Alkyl -C12-14-glycidyl ether; oxirane, mono[(C12-14-alkyloxy)methyl] derivs; Oxirane, mono[(alkyl(C=12-14)oxy) methyl] derivs.; Glycidol derivatives; C12-14-ALKYL GLYCIDYL ETHER; Alkyl (C12, C14) glycidyl ether	1 - 5*	68609-97-2
n-butyl acetate	Acetic acid, butyl ester; Butyl Acetate; n- Butyl-acetate; Butyl ethanoate; n-Butyl ester of acetic acid; product composed of hydrocarbons (predominantly paraffinic and naphthenic) and n-butyl acetate; 1-butyl acetate; 1-Acetoxybutane; Butyl ester, Acetic acid; normal butyl acetate; Acetic acid, n-butyl ester	1 - 5*	123-86-4
	2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy- 1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol		

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Section 3. Composition/information on ingredients

	Ŭ		
	Mono-(or di-) methyl (ethyl,bromoallyl, bromopropyloxycarbonyl orchloropropyloxycarbonyl) benzene		
propylidynetrimethanol	1,3-Propanediol, 2-ethyl-2-(hydroxymethyl) -; 1,1,1-Trimethylolpropane; Propane, 1,1,1-tris(hydroxymethyl)-; trimethylolpropane; 2-ethyl- 2-hydroxymethylpropane-1,3-diol; 2-Ethyl- 2-hydroxymethyl-1,3-propanediol; 1,1,1-TRIS(HYDROXYMETHYL) PROPANE; Hexaglycerine; Hexaglycerol; 2-Ethyl-2-(hydroxymethyl) -1,3-propanediol; Tris(hydroxymethyl) propane	0.1 - 1*	77-99-6

*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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

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

Section 4. First-aid measures

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

Description of necessary first aid measures

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

Most important symptoms/effects, acute and delayed

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

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Section 4. First-aid measures

Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical 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 ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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 oxides 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.

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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		

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).

information in "For non-emergency personnel".

Methods and materials for containment 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

: Fut 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.

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Section 7. Handling and storage

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits			
s-[4-(2,3-epoxipropoxi)phenyl]propane titanium dioxide	None. CA British Columbia Provincial (Canada, 6/2022). [Titanium dioxide] TWA: 10 mg/m ³ 8 hours. Form: Total dust TWA: 3 mg/m ³ 8 hours. Form: Total dust fraction CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m ³ 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 8 hrs OEL: 10 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 10 mg/m ³ 8 hours. Form: total dust CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m ³ 15 minutes. TWA: 10 mg/m ³ 8 hours.			
crystalline silica, respirable powder (<10 microns)	CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m ³ 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz]			
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Section 8. Exposure controls/personal protection

1-methoxy-2-propanol	TWAEV: 0.1 mg/m ³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.025 mg/m ³ 8 hours. Form: Respirable particulate CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m ³ 8 hours. Form: respirable fraction CA Alberta Provincial (Canada, 6/2018). 15 min OEL: 553 mg/m ³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 369 mg/m ³ 8 hours. 8 hrs OEL: 369 mg/m ³ 8 hours. 8 hrs OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). STEV: 553 mg/m ³ 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 369 mg/m ³ 8 hours. TWAEV: 369 mg/m ³ 8 hours. TWAEV: 369 mg/m ³ 8 hours. TWAEV: 100 ppm 8 hours.
	CA Saskatchewan Provincial (Canada, 7/2013). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
n-butyl acetate	CA Alberta Provincial (Canada, 6/2018). Skin sensitizer. 15 min OEL: 950 mg/m³ 15 minutes. 15 min OEL: 200 ppm 15 minutes. 8 hrs OEL: 713 mg/m³ 8 hours. 8 hrs OEL: 150 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [butyl acetates, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [butyl acetate, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [butyl acetates (all isomers)] STEV: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. xylene	None. CA Alberta Provincial (Canada, 6/2018).

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Section 8. Exposure controls/personal protection

	[Dimethylbenzene (o,m & p isomers)] 15 min OEL: 651 mg/m ³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m ³ 8 hours. 8 hrs OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Xylene (o, m & p isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). [Xylene (o-,m-,p- isomers)] STEV: 651 mg/m ³ 15 minutes. STEV: 651 mg/m ³ 8 hours. TWAEV: 434 mg/m ³ 8 hours. TWAEV: 100 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene (o, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
iron hydroxide oxide yellow	CA British Columbia Provincial (Canada, 6/2022). [Iron oxide dust as Fe] TWA: 5 mg/m ³ , (as Fe) 8 hours. Form: Dust CA British Columbia Provincial (Canada, 6/2022). [Iron oxide Fume, as Fe] TWA: 5 mg/m ³ , (as Fe) 8 hours. Form: Fume STEL: 10 mg/m ³ , (as Fe) 15 minutes. Form: Fume
Talc , not containing asbestiform fibres	 CA British Columbia Provincial (Canada, 6/2022). TWA: 2 mg/m³ 8 hours. Form: Respirable CA Ontario Provincial (Canada). TWA: 2 ppb Form: Respirable TWA: 2 mg/m³ Form: Respirable CA Quebec Provincial (Canada, 6/2022). TWAEV: 2 mg/m³ 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. Form: Respirable particulate CA Ontario Provincial (Canada, 6/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). TWA: 2 mg/m³ 8 hours. Form: respirable fraction
ethylbenzene	CA Alberta Provincial (Canada, 6/2018). 15 min OEL: 543 mg/m ³ 15 minutes. 15 min OEL: 125 ppm 15 minutes.

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Section 8. Exposure controls/personal protection

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	8 hrs OEL: 434 mg/m ³ 8 hours.
	8 hrs OEL: 100 ppm 8 hours.
	CA British Columbia Provincial (Canada,
	6/2022).
	TWA: 20 ppm 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 20 ppm 8 hours.
	CA Quebec Provincial (Canada, 6/2022).
	TWAEV: 20 ppm 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
propylidynetrimethanol	None.

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures		Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	res	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Chemical splash goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	:	butyl rubber
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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Section 8. Exposure controls/personal protection

Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	1	Liquid.	
Color	4	Not available.	
Odor	4	Characteristic.	
Odor threshold	1	Not available.	
рН	4	Not applicable.	
Melting point	4	Not available.	
Boiling point	4	>37.78°C (>100°F)	
Flash point	4	Closed cup: 36.67°C (98°F)	
Auto-ignition temperature	4	Not available.	
Decomposition temperature	1	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	1	0.77 (butyl acetate = 1)	
Vapor pressure	1	1.3 kPa (9.6 mm Hg)	
Vapor density	1	Not available.	
Relative density	1	1.58	
Density(lbs / gal)	1	13.19	
Solubility(ies)		Media	Result
Solubility(les)	ľ	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	1	Kinematic (40°C (104°F)): >2	21 mm²/s (>21 cSt)
Volatility	1	22% (v/v), 12.192% (w/w)	
% Solid. (w/w)	1	87.808	

Section 10. Stability and reactivity

Reactivity	1	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.

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Section 10. Stability and reactivity

Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials carbon oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
oxirane, mono[LD50 Oral	Rat	17100 mg/kg	-
(C12-14-alkyloxy)methyl]				
derivs.				
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
iron hydroxide oxide yellow	LC50 Inhalation Dusts and mists	Rat	>5.05 mg/l	4 hours
	LD50 Oral	Rat	>10 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
pís-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
•				mg	

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Section 11. Toxicological information

Conclusion/Summary					
Skin	: There are no o	data available	on the mixture itse	elf.	
Eyes	: There are no data available on the mixture itself.				
Respiratory	: There are no o	data available	on the mixture itse	elf.	
<u>Sensitization</u>					
Product/ingredient name	Route of exposure	Species		Result	
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse		Sensitizing	
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	skin	Guinea pig		Sensitizing	
Skin	: There are no o	data available	on the mixture itse	lf.	
Respiratory	: There are no o	data available	on the mixture itse	lf.	
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data available on the mixture itself.				
Carcinogenicity					
Conclusion/Summary	: There are no o	data available	on the mixture itse	lf.	
<u>Classification</u>					

Product/ingredient name	OSHA	IARC	NTP
s-[4-(2,3-epoxipropoxi)phenyl]	-	3	-
propane titanium dioxide	-	2B	-
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a human carcinogen.
xylene	-	3	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

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

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
rmethoxy-2-propanol n-butyl acetate xylene	Category 3 Category 3 Category 3	- - -	Narcotic effects Narcotic effects Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name		Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow. Contains material which may cause damage to the following organs: blood, kidneys,

lungs, the nervous system, heart, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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

Product name KEELOCK H/S LIGHT ORANGE EPOXY EN

Section 11. Toxicological information

Conclusion/Summary	1	There are no data available on the mixture itself. This product contains crystalline
		silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray
		applications. This product contains TiO2 which has been classified as a GHS
		Carcinogen Category 2 based on its IARC 2B classification. For many products,
		TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the
		TiO2 particles are bound in a matrix with no meaningful potential for human
		exposure to unbound particles of TiO2 when the product is applied with a brush or
		roller. Sanding the coating surface or mist from spray applications may be harmful
		depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).
		Exposure to component solvent vapor concentrations in excess of the stated
		occupational exposure limit may result in adverse health effects such as mucous
		membrane and respiratory system irritation and adverse effects on the kidneys, liver
		and central nervous system. Symptoms and signs include headache, dizziness,
		fatigue, muscular weakness, drowsiness and, in extreme cases, loss of
		consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent
		vapors in combination with constant loud noise can cause greater hearing loss than
		expected from exposure to noise alone. If splashed in the eyes, the liquid may
		cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and
		vomiting. This takes into account, where known, delayed and immediate effects
		and also chronic effects of components from short-term and long-term exposure by
		oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate effects	-	There are no data available on the mixture itself.
		There are no data available on the mixture itself.
Potential chronic health effe	ect	<u>2</u>
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
Numerical measures of toxic	ity	
Acute toxicity estimates		

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
KEELOCK H/S LIGHT ORANGE EPOXY EN	148022.6	53225.6	N/A	199.9	27.3
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
propylidynetrimethanol	14000	10000	N/A	N/A	N/A

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
oxirane, mono[LC50 >100 mg/l	Fish	96 hours
(C12-14-alkyloxy)methyl]			
derivs.			
iron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		-	-
ethylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not readily
n-butyl acetate xylene	-		-		Readily Readily
ethylbenzene	-		-		Readily

Bioaccumulative potential

Product name KEELOCK H/S LIGHT ORANGE EPOXY EN

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential	
Image: Arrow of the second	<1	-	Low	
n-butyl acetate	2.3	-	Low	
oxirane, mono[3.77	-	Low	
(C12-14-alkyloxy)methyl]				
derivs.				
xylene	3.12	7.4 to 18.5	Low	
ethylbenzene	3.6	79.43	Low	
propylidynetrimethanol	-0.47	-	Low	

Mobility in soil

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

Section 13. Disposal considerations

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

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

	TDG	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	III	III	III Yes. The environmentally hazardous substance mark is not required.	
Environmental hazards	Yes.	Yes.		
Marine pollutant substances	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.	

Section 14 Transport information

Product name KEELOCK H/S LIGHT ORANGE EPOXY EN

Section 14. Transport information

Additional inform	ation			
TDG	: The marine pollutant mark is not required when transported by road or rail.			
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.			
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.			
Special precautio	ns 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 to IMO instrumen		:	Not applicable.	
Proof of classification statement	ation	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).	

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL)

: All components are listed or exempted.

Section 16. Other information

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

Health: 2 * Flammability: 3 Physical hazards: 0

(*) - Chronic effects

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

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

National Fire Protection Asso Health : 2 Flamma	bility : 3 Instability : 0
Date of issue/Date of revision	8 September 2023
Organization that prepared the SDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Product name KEELOCK H/S LIGHT ORANGE EPOXY EN

Section 16. Other information

Indicates information that has changed from previously issued version.

Disclaimer

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