SAFETY DATA SHEET Bathworks*

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

Date of Issue: 12 February 2024

Section 1. Identification					
Product Name Product Type	Bathworks Eco Coating - A Liquid				
Revelant identified uses of the substance or mixture and uses advised against					
Product use Use of the substance/mixture Uses advised against	Industrial applications, professional applications Coating Not applicable				
Manufacturer	Tub Refinishing Inc. 9150 Clarence Center Rd, Clarence Center, NY 14032 (716) 741-9450				
Emergency Information	CHEMTREC® (800) 424-9300 Poison Control (800) 854-6813				

depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls

Section 2. Hazard Identification

Classification of the substance or mixture	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 68.1%
	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

(see Section 8).

Signal Word Hazard StatementsDanger Cause skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborn child.Precautionary Statements PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.ResponseIF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.StorageStore locked up.DisposalDispose of contents and container in accordance with all local, regional, national, and international regulations.Supplemental label elementsSanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations above the recommended exposure to high vapor concentrations above the recommended exposure to inginy after handling. Emits toxic fumes when heated. Prolonged or repeated contact may dry skin and cause irritation.	Hazard Pictograms	
PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.ResponseIF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.StorageStore locked up.DisposalDispose of contents and container in accordance with all local, regional, national, and international regulations.Supplemental label elementsSanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.	Signal Word Hazard Statements	Cause skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.
contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.StorageStore locked up.DisposalDispose of contents and container in accordance with all local, regional, national, and international regulations.Supplemental label elementsSanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.	Precautionary Statements Prevention	precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not
DisposalDispose of contents and container in accordance with all local, regional, national, and international regulations.Supplemental label elementsSanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.	Response	contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
Supplemental label elementsSanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.	Storage	Store locked up.
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		exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.
		Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/Information on Ingredients

Substance/mixture Product name

GHS Label Elements

Mixture Bathworks Eco Coating Part A

Ingredient name	%	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥20 - ≤50	1675-54-3
barium sulfate	≥10 - ≤20	7727-43-7
titanium dioxide	≥10 - ≤20	13463-67-7
benzyl alcohol	≥5.0 - ≤7.0	100-51-6
tetrahydro-2-furylmethanol	≥1.0 - ≤6.8	97-99-4
xylene	≤1.3	1330-20-7
ethylbenzene	<1.0	100-41-4
propylidynetrimethanol	≤1.0	77-99-6

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First-Aid Measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconcious 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
Inhalation	medical advice. Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial
Skin Contact	respiration or oxygen by trained personnel. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents
Ingestion	or thinners. 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 delayedPotential acute health effectsEye ContactInhalationSkin ContactCauses serious eye irritation.No known significant effects or critical hazards.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. Indication of immediate medical attention and special treatment needed, if necessary Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Specific treatments No specific treatment. Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

Section 5. Fire-Fighting Measures

Extinguishing Media Suitable extinguishing media Unsuitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire. None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon oxides, metal oxide/oxides, sulfur 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.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions, protective	equipment, and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 contai	<u>nment and cleaning up</u>
Small spill	Stop leak if without risk. Move containers from spill area. 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. 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 ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Do not store above the following temperature: 50°C (120°F.) Store in accordance with local regulations. 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. 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Ingredient name	Exposure limits
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.
barium sulfate	ACGIH TLV (United States, 1/2022).
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 1/2022).
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable
	fraction, finescale particles
benzyl alcohol	IPEL (-).
	TWA: 5 ppm
	STEL: 10 ppm
tetrahydro-2-furylmethanol	None.
xylene	ACGIH TLV (United States, 1/2022). [xylene]
	STEL: 651 mg/m ³ 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	[Xylenes]
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 1/2022).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
propylidynetrimethanol	None.

Key to abbreviations

		itey to appreviations			
A	=	Acceptable Maximum Peak	S	=	Potential skin absorption
ACGIH	=	American Conference of Governmental Industrial Hygienists.	SR	=	Respiratory sensitization
C	=	Ceiling Limit	SS	=	Skin sensitization
F	=	Fume	STEL	=	Short term Exposure limit values
IPEL	=	Internal Permissible Exposure Limit	TD	=	Total dust
OSHA	=	Occupational Safety and Health Administration.	TLV	=	Threshold Limit Value
R	=	Respirable	TWA	=	Time Weighted Average
Z	=	OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances			

Consult local authorities for 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	If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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.
<u>Individual protection measures</u> Hygiene measures	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Chemical splash goggles.
Skin Protection Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	Butyl rubber
Body protection	Personal protective equipment for the body should be selected based on the task being preformed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being preformed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Liquid
Color	Off-white
Odor	Characteristic
Odor threshold	Not available
pH	Not applicable
Melting point	Not available
Boiling point	>37.78°C (<100°F)
Flash point	Closed cup: 251.67°C (485°F) [Product does not sustain combustion]
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Flammability	Not available
Lower and upper explosive	Not available
(flammable) limits	NUL AVAIIADIE
	Net available
Evaporation rate	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.51
Density (lbs/gal)	12.6
Solubility(ies)	Media: Cold Water Result: Not soluble
Partition coefficient:	Not applicable
n-octanol/water	
Viscosity	Kinematic (40°C (104°F)): >21 mm2/s (>21 cSt)
Volatility	20% (v/v), 13.425% (w/w)
% Solid. (w/w)	86.575

Section 10. Stability and Reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids
Hazardous decomposition products	Depending on conditions, decomposition products may include the following materials: carbon oxides, metal oxide/oxides, sulfur 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	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
· · · · · · · · · · · · · · · · · · ·	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
tetrahydro-2-furylmethanol	LC50 Inhalation Vapor	Rat	19630 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1.22 g/kg	-
	LD50 Oral	Rat	1600 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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
bis-[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	-

Conclusion/Summary Skin Eyes Respiratory

There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself.

Sensitization

Product/ingredient name	Route of exposure	1	Species		Result	
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	- I	Mouse		Sensitizing	
Conclusion/Summary Skin There are no data available on the mixture itself. Respiratory There are no data available on the mixture itself. Mutagenicity There are no data available on the mixture itself. Conclusion/Summary There are no data available on the mixture itself. Carcinogenicity There are no data available on the mixture itself. Conclusion/Summary There are no data available on the mixture itself. Classification There are no data available on the mixture itself.						
Product/ingredient name	OSHA	IARC	NTP			
bis-[4-(2,3-epoxipropoxi) phenyl]propane titanium dioxide	-	3 2B	-			
xylene ethylbenzene	2	3 2B	2			
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: - <u>Reproductive toxicity</u> Conclusion/summary There are no data available on the mixture itself. <u>Teratogenicity</u> Conclusion/summary There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>						
Name				Category	Route of	Target organs
xylene				Category 3	exposure -	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
<u>Target organs</u>	Contains material which cause liver, heart, brain. Contains material which may c kidneys, lungs, the nervous sy central nervous system (CNS)	ause damage to t stem, spleen, upp	the following organs: per respiratory tract,

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 Inhalation Skin contact Ingestion	Adverse symptoms may include the following: pain or irritation, watering, redness. Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations. Adverse symptoms may include the following: irritation, redness, dryness, cracking, reduced fetal weight, increase in fetal deaths, skeletal malformations. Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations.
Delayed and immediate effects a Conclusion/summary	nd also chronic effects from short and long term exposure There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many 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. 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 Potential delayed effects	There are no data available on the mixture itself. There are no data available on the mixture itself.
Long term exposure Potential immediate effects Potential delayed effects	There are no data available on the mixture itself. There are no data available on the mixture itself.
<u>Potential chronic health effects</u> General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking, and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	No known significant effects or critical hazards.
Reproductive toxicity	May damage fertility or the unborn child.

Numerical measures of toxicity Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Bathworks Eco Coating - A	12694.7	6560.8	N/A	88.2	7.5
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
tetrahydro-2-furylmethanol	1600	1220	N/A	19.63	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

Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 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	Result			Inoculum
ethylbenzene	-	79 % - Rea	79 % - Readily - 10 days			-
Product/ingredient name	Aquatic half-life	Aquatic half-life Photolysis			Biodegradability	
bis-[4-(2,3-epoxipropoxi) phenyl]propane benzyl alcohol xylene ethylbenzene	-		-		Not read Readily Readily Readily	dily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	0.87	-	low
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 coefficent (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. 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.

Section 14. Transportation Information

	DOT	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (xylene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)
		phenyl]propane)	phenyl]propane)
Transport hazard class (es)	9	9	9
Packing group	III	Ш	ш
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.
Product RQ (lbs)	9643.6	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

Additional information

IMDG

IATA

The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous Substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials. This product is not regulated as a dangerous good when transported in

sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8. This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1, and 5.0.2.8. Transport in bulk according to IMO instruments

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.

Not applicable.

Section 15. Regulatory Information

<u>United States</u> United States inventory (TSCA 8b)	All components are active or exempted.
<u>SARA 302/304</u> SARA 304 RQ	Not applicable.
Composition/information on in	ngredients No products were found.

SARA 311/312 Classification

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
bis-[4-(2,3-epoxipropoxi)phenyl]	≥20 - ≤50	SKIN IRRITATION - Category 2
propane		EYE IRRITATION - Category 2A
	Second Strength	SKIN SENSITIZATION - Category 1B
titanium dioxide	≥10 - ≤20	CARCINOGENICITY - Category 2
benzyl alcohol	≥5.0 - ≤7.0	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
tetrahydro-2-furylmethanol	≥1.0 - ≤6.8	FLAMMABLE LIQUIDS - Category 4
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		TOXIC TO REPRODUCTION - Category 1B
		HNOC - Defatting irritant
xylene	≤1.3	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
	110	HNOC - Defatting irritant
propylidynetrimethanol	≤1.0	TOXIC TO REPRODUCTION - Category 2

Section 16. Other Information

SARA 313

Chemical Name

xylene

ethylbenzene

Supplier notification

CAS number Concentration

1330-20-70.5 - 1.5100-41-40.1 - 1

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

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from Tub Refinishing Inc.

California Prop. 65

WARNING: Cancer - www.P65Warnings.ca.gov.

Hazardous Material Information System (U.S.A) Health: 3 Flammability: 1 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 in HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

National Fire Protection Association (U.S.A) Health: 3 Flammability: 1 Instability: 0

Date of previous issue Not applicable.

Organization that prepared Tub Refinishing Inc. the SDS

Key to abbreviationsATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transportation Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficent
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

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

SAFETY DATA SHEET Bathworks*

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

Date of Issue: 12 February 2024

Section 1. Identification		
Product Name Product Type	Bathworks Eco Coating Catalyst - B Liquid	
Revelant identified uses of the s	substance or mixture and uses advised against	
Product use Use of the substance/mixture Uses advised against	Industrial applications, professional applications Hardener Not applicable	
Supplier	Tub Refinishing Inc. 9150 Clarence Center Rd, Clarence Center, NY 14032 (716) 741-9450	
Emergency Information	CHEMTREC® (800) 424-9300 Poison Control (800) 854-6813	

Section 2. Hazard 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	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 4% (dermal,) 83% (inhalation.)

GHS Label Elements Hazard Pictograms	
Signal Word Hazard Statements	Danger Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child
<u>Precautionary Statements</u> Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	Store locked up.
Disposal	Dispose of contents and container in accordance with all local, regional, national, and international regulations.
Supplemental label elements	Do not taste or swallow. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	Causes digestive tract burns.

Section 3. Composition/Information on Ingredients

Substance/mixture Product name

Mixture Bathworks Eco Coating Catalyst - B

Ingredient name	%	CAS number
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	≥50 - ≤64	9046-10-0 (n = 2-6
benzyl alcohol	≥10 - ≤12	100-51-6
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	≥10 - ≤12	25068-38-6
4-nonylphenol, branched	≥10 - ≤12	84852-15-3
1,3-Cyclohexanedimethanamine	≥10 - ≤12	2579-20-6
amine blend	≥1.0 - <5.0	137397-20-7
m-phenylenebis(methylamine)	≥1.0 - ≤3.8	1477-55-0
4-tert-butylphenol	≥1.0 - ≤3.8	98-54-4

SUB codes represent substances without registered CAS Numbers. Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8. The amine blend listed in the ingredients list above is a proprietary formula.

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 unconcious or convulsing person.

Description of necessary first aid measures

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek
immediate medical attention. 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. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents
or thinners. If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed				
Potential acute health effects				
Eye Contact	Causes serious eye irritation.			
Inhalation	Harmful if inhaled.			
Skin Contact	Causes severe burns. May cause an allergic skin reaction.			
Ingestion	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.			
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: 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 medical 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			
Specific treatments	surveillance for 48 hours.			
Protection of first-aiders	No specific treatment.			
Frotection of mist-alders	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.			
	removing it, or wear gives.			

Section 5. Fire-Fighting Measures

<u>Extinguishing Media</u> Suitable extinguishing media Unsuitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire. None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon oxides, nitrogen oxides, halogenated compounds.
Special protective actions for fire-fighters Special protective equipment 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. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions, protective	equipment, and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 contai	nment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. 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. 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 ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Do not store above the following temperature: 50°C (120°F.) Store in accordance with local regulations. 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. 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Ingredient name	Exposure limits
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-	None.
(2-aminomethylethoxy)-	
benzyl alcohol	IPEL (-).
	TWA: 5 ppm
	STEL: 10 ppm
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	None.
4-nonylphenol, branched	None.
1,3-Cyclohexanedimethanamine	None.
amine blend	None.
m-phenylenebis(methylamine)	ACGIH TLV (United States, 1/2022).
	Absorbed through skin.
	C: 0.018 ppm
4-tert-butylphenol	None.

A	=	Acceptable Maximum Peak	S	=	Potential skin absorption
ACGIH	=	American Conference of Governmental Industrial Hygienists.	SR	=	Respiratory sensitization
С	=	Ceiling Limit	SS	=	Skin sensitization
F	=	Fume	STEL	=	Short term Exposure limit values
IPEL	=	Internal Permissible Exposure Limit	TD	=	Total dust
OSHA	=	Occupational Safety and Health Administration.	TLV	=	Threshold Limit Value
R	=	Respirable	TWA	=	Time Weighted Average
Z	=	OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances			

Consult local authorities for 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	If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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 Hygiene measures	Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Chemical splash goggles and face shield.
Skin Protection Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	Nitrile neoprene.
Body protection	Personal protective equipment for the body should be selected based on the task being preformed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being preformed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and Chemical Properties

Appearance	
Physical state	Liquid
Color	Amber
Odor	Characteristic
Odor threshold	Not available
pH	Not applicable
Melting point	Not available
Boiling point	>37.78°C (<100°F)
Flash point	Closed cup: 94°C (201.2°F)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Flammability	Not available
Lower and upper explosive	Not available
(flammable) limits	
Evaporation rate	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.03
Density (lbs/gal)	8.6
Solubility(ies)	Media: Cold Water Result: Not soluble
Partition coefficient:	Not applicable
n-octanol/water	
Viscosity	Kinematic (40°C (104°F)): >21 mm2/s (>21 cSt)
Volatility	62% (v/v), 53% (w/w)
% Solid. (w/w)	47

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Poly[oxy(methyl-	LD50 Dermal	Rat	2980 mg/kg	-
1,2-ethanediyl)], α-				
(2-aminomethylethyl)-ω-				
(2-aminomethylethoxy)-				
()	LD50 Oral	Rat	2885 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin				
	LD50 Oral	Rat	>2 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
1,3-Cyclohexanedimethanamine	LD50 Dermal	Rabbit	1700 mg/kg	-
	LD50 Oral	Rat	700 mg/kg	-
m-phenylenebis (methylamine)	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
4-tert-butylphenol	LD50 Dermal	Rabbit	2.29 g/kg	-
	LD50 Oral	Rat	2.95 g/kg	-

Conclusion/Summary

There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-
m-phenylenebis (methylamine)	Skin - Severe irritant	Rat	-	4 hours	4 hours

Conclusion/Summary Skin Eyes Respiratory

There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself.

Sensitization

	Route of exposure	Species	Result
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing
m-phenylenebis (methylamine)	skin	Mouse	Sensitizing

<u>Conclusion/Summary</u> Skin Respiratory	There are no data available on the mixture itself. There are no data available on the mixture itself.
<u>Mutagenicity</u> Conclusion/Summary	There are no data available on the mixture itself.
<u>Carcinogenicity</u> Conclusion/Summary	There are no data available on the mixture itself.
<u>Reproductive toxicity</u> Conclusion/Summary	There are no data available on the mixture itself.
<u>Teratogenicity</u> Conclusion/Summary	There are no data available on the mixture itself.
<u>Specific target organ toxicity</u> (<u>single exposure</u>)	Not available.
<u>Specific target organ toxicity</u> (repeated exposure)	Not available.
<u>Target organs</u>	Contains material which causes damage to the following organs: blood, liver, heart, brain, skin. Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, mucous membranes, gastrointestinal tract, upper respiratory tract, central nervous system (CNS,) eye, lens, or cornea.
Aspiration hazard	Not available.
Information on the likely routes o	fexposure
Potential acute health effects	

r oteritiar acute nearth encets	
Eye contact	Causes serious eye damage.
Inhalation	Harmful if inhaled.
Skin contact	Causes severe burns. May cause an allergic skin reaction.
Ingestion	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms Eye contact Inhalation Skin contact Ingestion	Adverse symptoms may include the following: pain or irritation, watering, redness. Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations. Adverse symptoms may include the following: irritation, redness, dryness, cracking, reduced fetal weight, increase in fetal deaths, skeletal malformations. Adverse symptoms may include the following: stomach pains, reduced fetal weight, increase in fetal deaths, skeletal malformations.
Delayed and immediate effects an Conclusion/summary	There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver, and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea, and vomiting. This takes into account, where known, delayed, and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation, and dermal routes of exposure and eye contact. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy, or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.
<u>Short term exposure</u> Potential immediate effects Potential delayed effects	There are no data available on the mixture itself. There are no data available on the mixture itself.
Long term exposure Potential immediate effects Potential delayed effects	There are no data available on the mixture itself. There are no data available on the mixture itself.
Potential chronic health effects General Carcinogenicity Mutagenicity Reproductive toxicity	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards. No known significant effects or critical hazards. May damage fertility or the unborn child.

Numerical measures of toxicity Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Bathworks Eco Coating Catalyst - B	1570.3	2574.4	25500.0	46.8	2.6
Poly[oxy(methyl-1,2-ethanediyl)], α-	2885	2980	N/A	N/A	N/A
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-			-		
benzyl alcohol	1230	2000	N/A	N/A	1.5
reaction product: bisphenol-A-(epichlorhydrin); epoxy	2500	2500	N/A	N/A	N/A
resin					
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
1,3-Cyclohexanedimethanamine	700	1700	N/A	N/A	N/A
amine blend	500	N/A	N/A	11	N/A
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
4-tert-butylphenol	2950	2290	N/A	N/A	N/A

Section 12. Ecological Information

Toxicity

Product/ingredient name	Result	Species	Exposure
Poly[oxy(methyl-	EC50 15 mg/l	Algae	72 hours
1,2-ethanediyl)], α-			
(2-aminomethylethyl)-ω-			
(2-aminomethylethoxy)-			
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
1,3-Cyclohexanedimethanamine		Fish - golden orfe	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 da	ys	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)- benzyl alcohol reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	-		-		Not read Readily Not read	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
benzyl alcohol	0.87	-	low
reaction product: bisphenol-A-	2.64 to 3.78	31	low
(epichlorhydrin); epoxy resin			
4-nonylphenol, branched	5.4	251.19	low
1,3-Cyclohexanedimethanamine	0.783	-	low
m-phenylenebis(methylamine)	0.18	2.69	low
4-tert-butylphenol	3	67.61	low

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. 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.

Section 14. Transportation Information

	DOT	IMDG	IATA
UN number	UN1760	UN1760	UN1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.
	(Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-, 1,3-Cyclohexanedimethanamine)	(Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-, 1,3-Cyclohexanedimethanamine)	(Poly[oxy(methyl- 1,2-ethanediyl)], α- (2-aminomethylethyl)-ω- (2-aminomethylethoxy)-, 1,3-Cyclohexanedimethanamine)
Transport hazard class (es)	8	8	8
Packing group	II	П	11
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(4-nonylphenol, branched, reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	Not applicable.

by other transportation regulations.

Additional information DOT IMDG

ΙΑΤΑ

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.

The environmentally hazardous substance mark may appear if required

The marine pollutant mark is not required when transported in sizes of

Transport in bulk according to IMO instruments

Not applicable.

None identified.

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Section 15. Regulatory Information

United States United States inventory (TSCA 8b) United States - TSCA 12(b) - Cher 4-nonylphenol, branched United States - TSCA 5(a) 2 - Prop 4-nonylphenol, branched	One time notification
<u>SARA 302/304</u> SARA 304 RQ	Not applicable.
Composition/information on ingredients	No products were found.
SARA 311/312 Classification	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 2 HNOC - Corrosive to digestive tract
Composition/information on ingra	

Name	%	Classification
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω- (2-aminomethylethoxy)-	≥50 - ≤64	SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
benzyl alcohol	≥10 - ≤12	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
reaction product: bisphenol-A-	≥10 - ≤12	EYE IRRITATION - Category 2A SKIN IRRITATION - Category 2
(epichlorhydrin); epoxy resin		EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1
4-nonylphenol, branched	≥10 - ≤12	ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
1,3-Cyclohexanedimethanamine	≥10 - ≤12	HNOC - Corrosive to digestive tract ACUTE TOXICITY (oral) - Category 4
r,o-oyclonexaneumethanannine	-1012	ACUTE TOXICITY (dermal) - Category 4
		SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1
amine blend	≥1.0 - <5.0	COMBUSTIBLE DUSTS
		ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
		SKIN CORROSION - Category 1A
		SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
d i i seda seda ara		TOXIC TO REPRODUCTION - Category 2
m-phenylenebis(methylamine)	≥1.0 - ≤3.8	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
4-tert-butylphenol	≥1.0 - ≤3.8	SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2

4

SARA 313

Chemical Name

CAS number

Concentration

Supplier notification

4-nonylphenol, branched

84852-15-3

5-10

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

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from Tub Refinishing Inc.

Section 16. Other Information

Hazardous Material Information System (U.S.A) Health: 3* Flammability: 1 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 in HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

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

National Fire Protection Association (U.S.A) Health: 3 Flammability: 1 Instability: 0

Date of previous issue Not applicable.

Organization that prepared Tub Refinishing Inc. the SDS

Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transportation Association IBC = International Air Transportation Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficent 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
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The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Tub Refinishing Inc., and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

SAFETY DATA SHEET

Product name	: Bathworks Eco Non-Slip Additive
Other means of identification	: Not available.
Product type	: Solid.
Relevant identified uses of	the substance or mixture and uses advised against
Not applicable.	
Manufacturer	Tub Refinishing Inc. 9150 Clarence Center Rd. Clarence Center, NY 14032 (716) 741-9450
Emergency telephone number of the company	CHEMTREC® (800) 424-9300 Poison Control (800) 854-6813

Section 2. Hazar	rds identification
OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statement	<u>s</u>
General	 Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	None known.
	Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.
Hazards not otherwise classified	:None known.

Section 3. Composition/information on ingredients

Substance/mixture

Other means of identification : Substance

: Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Polypropylene	100	9003-07-0

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 and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Potential acute health e	ffects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	mptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
ndication of immediate r	nedical 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.
and the second	

- Specific treatments : No specific treatment.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon dioxide carbon monoxide
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.
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	tive equipment and emergency procedures			
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.			
For emergency responders	 If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel". 			
Environmental precautions	 Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). 			
Methods and materials for co	entainment and cleaning up			
Small spill	 Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. 			
Large spill : Move containers from spill area. Prevent entry into sewers, water courses or confined areas. Vacuum or sweep up material and place in a designate waste container. Dispose of via a licensed waste disposal contractor. Not				

Section 7. Handling and storage

Precautions for safe handling	9	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

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Conditions for safe storage, including any incompatibilities		Store in accordance with local regulations. 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. 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 (OSHA United States)

Ingredient name	Exposure limits
Polypropylene	None.

Occupational exposure limits (Canada)

Ingredient name	Exposure limits	
None.		

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		
controla	will be necessary to reduce emissions to acceptable levels.		
Individual protection measure	8		
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side- shields.		
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. 		
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. 		
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 mappropriate standard or certification. Respirators must be used according respiratory protection program to ensure proper fitting, training, and other aspects of use.			

Section 9. Physical and chemical properties

Appearance		
Physical state	:	Solid.
Color	:	Not available.
Odor	:	Not available.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Closed cup: >93.3°C (>199.9°F) [Pensky-Martens Closed Cup]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	0.9
Solubility	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (room temperature): >0.205 cm ² /s (>20.5 cSt)
Molecular weight	:	Not applicable.

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	: No specific data.
Incompatible materials	: No specific data.
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
Polypropylene	LD50 Oral	Rat	>8 g/kg	-

Irritation/Corrosion

Not available.

Section 11. Toxicological information

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Polypropylene	-	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

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effe	cts	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the p	hy	sical, chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	1	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate eff	ec	ts 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 ef	fec	:15

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Not available.

General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity Acute toxicity estimates Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and	degradability
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Not available.

Bioaccumulative potential

Not available.

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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name		-	-	-	-
Transport hazard class(es)		-	-	-	-
Packing group		-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	•	-	*	-	-
Special precaution	consid mode suitab prior t respo unloa	modal shipping desc der container sizes. T of transport (sea, air bly for that mode of tr to shipment, and com nsibility of the person ding dangerous good ances and on all acti	The presence of a st r, etc.), does not indi ansport. All packagin pliance with the app n offering the product ts must be trained o	hipping description icate that the produ- ng must be review blicable regulations t for transport. Peo n all of the risks de	for a particular uct is packaged ed for suitability is the sole ople loading and
Transport in bulk a to Annex II of MAR the IBC Code		ailable.			
		shipping name	: Not available.		
	Ship ty	100	: Not available.		

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

Not applicable.

Section 16. Other information

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



The customer is responsible for determining the PPE code for this material.

Section 16. Other information

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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

Classification Not classified.	Justification
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