

DECK WASH • CONCENTRATE & READY TO USE •

SECTION 1. IDENTIFICATION

GHS PRODUCT IDENTIFIER: NexxChem RestorRxx Deck Wash

OTHER MEANS OF IDENTIFICATION: RestorRxx Deck Wash

PRODUCT CODE: RRX-DW032
RRX-DW001
RRX-DW005

PRODUCT TYPE: Liquid Cleaner

IDENTIFIED USES: Cleaning Concrete and Masonry Surfaces

SUPPLIER / MANUFACTURER: NexxChem, LLC
407 South 17th St., Clear Lake, IA 50428
641-357-1455

EMERGENCY TELEPHONE NUMBER WITH HOURS OF OPERATION: 641-357-1455

SECTION 2. HAZARDS IDENTIFICATION

OSHA/MCS 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
Skin Corrosion/Irritation: Category 1
Serious Eye Damage/Eye Irritation: Category 1

GHS LABEL ELEMENTS



SIGNAL WORD: DANGER

HAZARD STATEMENTS: H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS

PREVENTION: P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash hands thoroughly.
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use in a well ventilated area.

RESPONSE: P340, P340: INHALATION: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.
P301, P310: INGESTION: Immediately call POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.
P303, P310, P352, P261, P363: SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
P305, P351, P310: EYES: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing. Immediately call POISON CENTER or physician.

STORAGE: P405: Store locked up.

DISPOSAL: Dispose of contents and container in accordance with all local, regional, national and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (NHOC): None known.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL	CAS#	%
Benzenesulfonic acid, C10-16 - alkyl derivs.	68584-22-5	10-30%
2- Butoxyethanol	111-76-2	5-10%
Ethanedioic acid, hydrate	6153-56-6	5-10%

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

EYE CONTACT: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

INHALATION: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

SKIN CONTACT: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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INGESTION:

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in a recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waist-band.

MOST IMPORTANT SYMPTOMS, EFFECTS, ACUTE AND DELAYED POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: Causes serious eye damage.

INHALATION: No known significant effects or critical hazards.

SKIN CONTACT: Causes severe burns.

INGESTION: Harmful if swallowed.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NA

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE CONTACT: Adverse symptoms may include the following: Pain, watering, redness.

INHALATION: No Known significant effects or critical hazards.

SKIN CONTACT: Adverse symptoms may include the following; pain or irritation, redness, blistering may occur.

INGESTION: Adverse symptoms may include the following: stomach pains.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES 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 an extinguishing agent suitable for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: None known.

UNUSUAL FIRE AND EXPLOSION HAZARDS: No specific fire or explosion hazard.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: Carbon dioxide and Carbon Monoxide.

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: No special measures are required.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: Fire-fighters should wear appropriate protective equipment and self-containing 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. Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on protective equipment.

FOR EMERGENCY RESPONDERS:

If specialized clothing is required to deal with spillage take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel" above.

ENVIRONMENTAL PRECAUTIONS:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN 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 processed 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 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

PROTECTIVE MEASURES:

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

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. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

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. 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

CONTROL PARAMETERS

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OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT NAME

EXPOSURE LIMITS

2-Butoxyethanol	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2013). Absorbed through skin.
	TWA: 24 mg/m ³ 10 hours.
	TWA: 5 ppm 10 hours.
Ethanedioic acid, hydrate	OSHA PEL (United States, 2/2013). Absorbed through skin.
	TWA: 240 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.
	TWA: 25 ppm 8 hours.
	TWA: 120 mg/m ³ 8 hours.
	ACGIH TLV (United States, 3/2015).
	TWA: 1 mg/m ³ 8 hours.
	STEL 2 mg/m ³ 15 minutes.

EXPOSURE CONTROLS

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.

INDIVIDUAL PROTECTION MEASURES PREVENTATIVE AND 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.

INDIVIDUAL PROTECTION MEASURES EYE/FACE/RESPIRATORY PROTECTION:

EYE PROTECTION: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

SKIN PROTECTION-HAND: 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.

SKIN PROTECTION-BODY: 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.

SKIN PROTECTION-OTHER: 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: Use a properly fitted air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

ENVIRONMENTAL EXPOSURE CONTROLS:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light Blue/Green
PHYSICAL STATE:	Liquid
ODOR:	Slight solvent
ODOR THRESHOLD:	NA
PH:	1.5 to 3.5 [Conc. (% w/w): 100%]
MELTING POINT:	NA
FREEZING POINT:	NA
BOILING POINT:	> 212°F (>100°C)
FLASH POINT:	Closed cup: >200°F (>93.333°C)
EVAPORATION RATE:	NA
FLAMMABILITY (SOLID,GAS):	NA
LOWER AND UPPER EXPLOSIVE:	NA
VAPOR PRESSURE:	NA
VAPOR DENSITY:	NA
DENSITY (H ₂ O = 1):	NA
SOLUBILITY:	Complete in H ₂ O
PARTITION COEFFICIENT N-OCTANOL/WATER:	NA
AUTO-IGNITION TEMPERATURE:	NA
DECOMPOSITION TEMPERATURE:	NA
VISCOSITY:	NA
PERCENT SOLIDS BY WEIGHT:	NA
VOLATILE ORGANIC COMPOUNDS (VOC):	NA

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY:	No specific test data related to reactivity is 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:	Reactive or incompatible with the following materials: oxidizing materials. Slightly reactive or incompatible with the following materials: alkalis.
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
HAZARDOUS POLYMERIZATION:	NA

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

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ProRx.....DECK WASH-SDS

READY TO USE & CONCENTRATE

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
Benzenesulfonic acid, C10-16-alkyl derivs.	LD50 Dermal	Rabbit	2000 mg/kg	—
2- Butoxyethanol	LD50 Oral	Rat	775 mg/kg	—
	IC50 Inhalation Vapor	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	—
	LD50 Oral	Rat	250 mg/kg	—

IRRITATION/CORROSION:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
2- Butoxyethanol	Eyes - Moderate irritant	Rabbit	—	24 hours 100 mg	—
	Eyes - Severe irritant	Rabbit	—	100mg	—
	Skin - Mild irritant	Rabbit	—	500 mg	—

SENSITIZATION: No data available.

CARCINOGENICITY

CLASSIFICATION

PRODUCT/INGREDIENT NAME	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
2-Butoxyethanol	—	3	—	A3	—	—

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): No data available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): No data available.

ASPIRATION HAZARD: No data available.

POTENTIAL ACUTE HEALTH EFFECTS

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: Dermal contact. Eye contact. Inhalation. Ingestion.

EYE CONTACT: Causes serious eye damage.

INHALATION: No known significant effects or critical hazards.

SKIN CONTACT: Causes severe burns.

INGESTION: Harmful if swallowed.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

EYE CONTACT: Pain, watering, redness.

INHALATION: No known significant effects or critical hazards.

SKIN CONTACT: Pain or irritation, redness, blistering may occur.

INGESTION: Stomach pain.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONGER TERM EXPOSURE

SHORT TERM EXPOSURE

POTENTIAL IMMEDIATE EFFECTS: No known significant effects or critical hazards.

POTENTIAL DELAYED EFFECTS: No known significant effects or critical hazards.

LONG TERM EXPOSURE

POTENTIAL IMMEDIATE EFFECTS: No known significant effects or critical hazards.

POTENTIAL DELAYED EFFECTS: No known significant effects or critical hazards.

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL: No known significant effects or critical hazards.

CARCINOGENICITY: No known significant effects or critical hazards.

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MUTAGENICITY: No known significant effects or critical hazards.
TERATOGENICITY: No known significant effects or critical hazards.
DEVELOPMENTAL EFFECTS: No known significant effects or critical hazards.
FERTILITY EFFECTS: No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

ROUTE	ATE VALUE
Oral	1725.2 mg/kg
Dermal	2111.2 µg/kg
Inhalation (vapors)	135.9 µg/l

SECTION 12. ECOLOGICAL INFORMATION

TOXICITY

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
Benzenesulfonic acid, C10-16-alkyl derivs.	Acute EC50 5.65 mg/L Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
2- Butoxyethanol	Acute EC50 >1000 mg/L Fresh water Acute LC50 800000to 1000000 mg/L Marine water Acute LC50 1,250,000 mg/L Marine water	Daphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Menidia beryllina	48 hours 48 hours 96 hours

PERSISTENCE DEGRADABILITY: No data available.

BIOACCUMULATIVE POTENTIAL:

PRODUCT/INGREDIENT NAME	LogP _{ow}	BCF	POTENTIAL
2- Butoxyethanol	0.81	—	low

MOBILITY IN SOIL
SOIL/WATER PARTITION COEFFICIENT (K_{oc}): NA




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 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 empty 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.

SECTION 14. TRANSPORTATION INFORMATION

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	DOT	IMDG	IATA
UN Number	2586	2586	2586
UN Proper Shipping Name	ALKYL SULFONIC ACIDS (Benzenesulfonic acid, C10-16-alkyl derivs., Ethanediotic acid, hydrate)	ALKYL SULFONIC ACIDS (Benzenesulfonic acid, C10-16-alkyl derivs., Ethanediotic acid, hydrate)	ALKYL SULFONIC ACIDS (Benzenesulfonic acid, C10-16-alkyl derivs., Ethanediotic acid, hydrate)
Transport Hazard Class(es)	 8 CORROSIVE	 8 CORROSIVE	 8 CORROSIVE
Packing Group	III	III	III
Environmental Hazards	No.	No.	No.
Additional Information	Limited Quantity Exemption	Limited Quantity Exemption	Limited Quantity Exemption

AERG: NA

SPECIAL PRECAUTIONS FOR USER:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting know what to do in the event of an accident or spillage.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

NA

SECTION 15. REGULATORY INFORMATION

FEDERAL REGULATIONS

U.S. FEDERAL REGULATIONS:

TSCA 8(a) CDR Exempt/Partial exemption: Not determined.
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 311: Sulfuric acid

CLEAN AIR ACT SECTION 112 (B) HAZARDOUS AIR POLLUTANTS (HAPs):

Not listed.

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCES:

Not listed.

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES:

Not listed.

DEA List I Chemicals (Precursor Chemicals):

Not listed.

SARA TITLE III: (SUPERFUND AMENDMENTS & REAUTHORIZATION ACT)

SARA 302/304:

PRODUCT/INGREDIENT NAME	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Sulfuric acid	0.1-1	Yes	1000	66.3	1000	66.3

SARA 304 RQ: 156079.3 lbs / 70860 kg [18533.9 gal / 70158.4 L]

SARA 311/312 HAZARD CATEGORIES: Immediate (acute) health hazard

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Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Benzenesulfonic acid, C10-16-alkyl derivs.	10-30	No	No	No	Yes	No
2-Butoxyethanol	5-10	Yes	No	No	Yes	No
Ethanedioic acid, hydrate	5-10	No	No	No	Yes	No

SARA 313 TOXIC CHEMICALS:

	Product Name	CAS Number	%
Form R - Reporting Requirements	2-Butoxyethanol	111-76-2	5-10
Supplier Notification	2-Butoxyethanol	111-76-2	5-10

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

STATE REGULATIONS

MASSACHUSETTS: None of the components are listed.

NEW YORK: None of the components are listed.

NEW JERSEY: The following components are listed: 2-Butoxyethanol.

PENNSYLVANIA: None of the components are listed.

CALIFORNIA PROP. 65 WARNING: This product contains a chemical known to the State of California to cause cancer.

Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Sulfuric Acid	Yes	No	No	No

CANADIAN REGULATIONS

CEPA DSL: NA

WHMIS CLASSES: NA

SECTION 16. OTHER INFORMATION

HMIS HAZARD CLASSIFICATION

HMIS HAZARD CLASSIFICATION: NA

NATIONAL FIRE PROTECTION ASSOCIATION: NA
(USA)

HISTORY

DATE OF ISSUE MM/DD/YYYY: 04/29/2019

VERSION: 1

PREPARED BY:

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KEY ABBREVIATIONS:

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service (Division of American Chemical Society)
DNEL = Derived No Effect Level
DOT = U.S. Department of Transportation
GHS = Globally Harmonized System of Classification and Labeling of Chemicals
HMIS = Hazardous Materials Identification System
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LC50 = Lethal Concentrate, 50 percent
LD50 = Lethal Dose, 50 percent
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NIOSH = National Institute for Occupational Safety and Health
NPFA = National Fire Protection Association
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative, and toxic
PEL = Permissible Limit Value
REL = Recommended Exposure Limit
TLV = Threshold Limit Value
TWA = Time Weighted Average
UN = United Nations
vPvB = Very Persistent and Very Bioaccumulative
WEL = Workplace Exposure Limit

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