

SECTION 1. IDENTIFICATION

GHS PRODUCT IDENTIFIER: Alchemco ACR PU24 Elastomeric Sealant

OTHER MEANS OF IDENTIFICATION: ACR PU24 Elastomeric Sealant

PRODUCT TYPE: Caulk

IDENTIFIED USES: Caulk

SUPPLIER / MANUFACTURER:

Alchemco, A division of MBC North America, Inc
3532 Mayland Ct., Henrico, VA 23233
800-610-2895

EMERGENCY TELEPHONE NUMBER: +1-800-610-2895 24 hours

SECTION 2. HAZARDS IDENTIFICATION

GHS LABEL ELEMENTS

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

H370 - Causes damage to organs.

H372 - Causes damage to organs through prolonged or repeated exposure.
(bladder, kidneys, liver, respiratory tract)

PRECAUTIONARY STATEMENTS

PREVENTION:

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

P260 - Do not breathe dust.

P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.

P272 (OSHA) - Contaminated work clothing must not be allowed out of workplace.

RESPONSE:

P314 - Get medical attention if you feel unwell.

P307 + P311 - IF EXPOSED: Call a POISON CENTER or physician.

P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

HAZARD PICTOGRAMS



STORAGE: P405 - Store locked up.

DISPOSAL:

P501: Dispose of contents/container according to local, state and federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (NHOC): NA

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: Mixture

CAS NUMBER/OTHER IDENTIFIERS: Hybrid polymer elastomeric sealant/adhesive

INGREDIENT	CAS #	%
Limestone	1317-65-3	50-70
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-48-0	≥10 - ≤50
Titanium dioxide	13463-67-7	≥1 - 10
Trimethoxyvinylsilane	1760-24-3	≥1 - ≤3
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	22673-19-4	≥1 - ≤3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. 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. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SKIN CONTACT: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

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

EYE CONTACT: Causes serious eye irritation.

INHALATION: Causes damage to organs following a single exposure if inhaled.

SKIN CONTACT: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

INGESTION: Causes damage to organs following a single exposure if swallowed.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

CHRONIC: Persons with pre-existing skin disorders or respiratory impairment may be more susceptible to the effects of this product. Titanium Dioxide is a suspected animal carcinogen. Crystalline silica (as respirable dust) is a known carcinogen. Refer to Section 11.

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE CONTACT: Adverse symptoms may include the following: pain or irritation, watering, redness

INHALATION: NA

SKIN CONTACT: Adverse symptoms may include the following: irritation, redness

INGESTION: NA

DELAYED EFFECTS FROM LONG TERM EXPOSURE INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES PHYSICIAN: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SPECIFIC TREATMENTS: NA

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: Use an extinguishing agent suitable for the surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: None known.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

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. 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 nonemergency personnel".

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

SMALL SPILL: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

LARGE SPILL: Same as above.

SECTION 7. HANDLING AND STORAGE

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. 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. 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. See Section 10 for incompatible materials before handling or use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS

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.



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: 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.

RESPIRATORY PROTECTION: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SKIN AND BODY PROTECTION: **HAND PROTECTION:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. **BODY PROTECTIN:** 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:** 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.

INGREDIENT NAME	EXPOSURE LIMITS
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	None.
Titanium Dioxide	ACGIH TLV (United States, 3/2018). TWA: 10 mg/m ³ 8 hours. OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust
Stearic acid	ACGIH TLV (United States, 3/2018). TWA: 10 mg/m ³ 8 hours. Form: Inhalable fraction TWA: 3 mg/m ³ 8 hours. Form: Respirable fraction
Trimethoxyvinylsilane	None.
Methanol	ACGIH TLV (United States, 3/2018). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 262 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 200 ppm 10 hours. TWA: 260 mg/m ³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 200 ppm 8 hours. TWA: 260 mg/m ³ 8 hours.
N-(3-(trimethoxysilyl)propyl)ethylenediamine	None.
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	None.
Crystalline silica	OSHA PEL Z3 (United States, 6/2016). TWA: 250 mppcf / (%SiO ₂ +5) 8 hours. Form: Respirable TWA: 10 mg/m ³ / (%SiO ₂ +2) 8 hours. Form: Respirable NIOSH REL (United States, 10/2016). TWA: 0.05 mg/m ³ 10 hours. Form: Respirable dust OSHA PEL (United States, 5/2018). TWA: 50 µg/m ³ 8 hours. Form: Respirable dust

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Opaque Paste, Gray
PHYSICAL STATE: Paste
ODOR: Slight
ODOR THRESHOLD: NA
PH: NA
MELTING POINT: NA
BOILING POINT: 482°F (250°C)
FLASH POINT: F: >392 C: >200 Method used: Closed Cup (ISO 2592)
EVAPORATION RATE: <1 (Butyl acetate = 1)
FLAMMABILITY (SOLID,GAS): NA

LOWER AND UPPER EXPLOSIVE: non explosive
VAPOR PRESSURE: <0.11 kPa (<0.8 mm Hg) [room temperature]
VAPOR DENSITY: >1 [Air=1]
SPECIFIC GRAVITY: 1.50 (WATER = 1.0)
SOLUBILITY: not miscible or difficult to mix
PARTITION COEFFICIENT N-OCTANOL/WATER: NA
AUTO-IGNITION TEMPERATURE: >745 °F (>395°C)
DECOMPOSITION TEMPERATURE: NA
VISCOSITY: NA
VOLATILITY: NA

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: No specific data available.

CHEMICAL STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.

CONDITIONS TO AVOID: Avoid heat, flames and sparks. Avoid contact with incompatible materials.

INCOMPATIBLE MATERIALS: Strong acids, strong oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

HAZARDOUS POLYMERIZATION: NA

SECTION 11. TOXICOLOGICAL INFORMATION

IRRITATION/CORROSION

SENSITIZATION: NA

CLASSIFICATION: NA

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): NA

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): NA

ASPIRATION HAZARD: NA

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: NA

POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: Causes serious eye irritation.

INHALATION: Causes damage to organs following a single exposure if inhaled.

SKIN CONTACT: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction

INGESTION: Causes damage to organs following a single exposure if swallowed.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

EYE CONTACT: See section 4 of this SDS for symptoms.

INHALATION: See section 4 of this SDS for symptoms.

SKIN CONTACT: See section 4 of this SDS for symptoms.

INGESTION: See section 4 of this SDS for symptoms.

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL: Causes damage to organs through prolonged or repeated exposure.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

CARCINOGENICITY: May cause cancer. Risk of cancer depends on duration and level of exposure.

MUTAGENICITY: NA

TERATOGENICITY: NA

DEVELOPMENTAL EFFECTS: NA

FERTILITY EFFECTS: NA

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

POTENTIAL IMMEDIATE EFFECTS: NA

POTENTIAL DELAYED EFFECTS: NA

LONG TERM EXPOSURE

POTENTIAL IMMEDIATE EFFECTS: NA

POTENTIAL DELAYED EFFECTS: NA

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY

At Alchemco, we are certified eco-friendly and do not use animal testing. Our commitment to sustainability and ethical practices ensures our products are environmentally responsible and humanely developed.



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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. **DISPOSAL METHODS:** 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.

UNITED STATES - RCRA TOXIC HAZARDOUS WASTE "U" LIST

INGREDIENT	CAS #	STATUS	REFERENCE NUMBER
METHANOL	67-56-1	listed	U154

SECTION 14. TRANSPORTATION INFORMATION

U.S. DOT (DOMESTIC SURFACE)

	DOT	IMDG	IATA
UN NUMBER	Not Regulated.	Not Regulated.	Not Regulated.
UN PROPER SHIPPING NAME	NA	NA	NA
TRANSPORT HAZARD CLASS(ES)	NA	NA	NA
PACKING GROUP	NA	NA	NA
ENVIRONMENTAL HAZARDS	NO	NO	NO
ADDITIONAL INFORMATION			

NOTE: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

SECTION 15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES:

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 AIR ACT SECTION 112(B) HAZARDOUS AIR POLLUTANTS Listed

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCE: Not listed

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES: Not listed

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): Not listed

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS): Not listed

SARA 302/304

COMPOSITION/INFORMATION ON INGREDIENTS: No products were found. SARA 304 RQ: Not applicable.

SARA 311/312

HAZARD CATEGORIES:

SKIN CORROSION/IRRITATION - Category 2 311/312

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bladder, kidneys, liver, respiratory tract) - Category 1



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NAME	CLASSIFICATION
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
Titanium dioxide	CARCINOGENICITY - Category 2
Stearic acid	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
Trimethoxyvinylsilane	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bladder) (oral) - Category 2
Methanol	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
N-(3-(trimethoxysilyl)propyl)ethylenediamine	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver) (oral) - Category 2
Crystalline silica	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory tract) (inhalation) - Category 1

SARA 313

NAME	PRODUCT NAME	CAS NUMBER
Form R - Reporting requirements	Methanol	67-56-1
Supplier Notification	Methanol	67-56-1

STATE REGULATIONS

MASSACHUSETTS: The following components are listed: Limestone; Titanium dioxide; Methanol; Crystalline silica

NEW YORK: The following components are listed: Methanol

NEW JERSEY: The following components are listed: Limestone; Titanium dioxide; Methanol; Crystalline silica

PENNSYLVANIA: The following components are listed: Limestone; Titanium dioxide; Methanol; Crystalline silica

CALIFORNIA PROP. 65 WARNING: This product can expose you to chemicals including Titanium dioxide and Crystalline silica, which are known to the State of California to cause cancer, and 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich and Methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



SECTION 16. OTHER INFORMATION

CLASSIFICATION	JUSTIFICATION
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (bladder, kidneys, liver, respiratory tract) - Category 1	Calculation method

HISTORY:

DATE OF ISSUE MM/DD/YYYY: 06/24/2024

VERSION: 1

SUPERCEDES DATE MM/DD/YYYY: NA

PREPARED BY: Alchemco, Inc. 800-610-1895.

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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