

## SAFETY DATA SHEET



## Super Spreader Adjuvant PCP 17402

## **Section 1. Identification**

Product identifier : Super Spreader Adjuvant PCP 17402

SDS # : 10013329-21-LPI

Other means of identification

**Product code(s)** : 10013329

Product type : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** 

Surfactant.

Supplier's details : LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

Loveland Products Canada Inc.

789 Donnybrook Drive Dorchester, Ontario N0L 1G5

retail-SDS@nutrien.com - www.nutrienagsolutions.com

Emergency telephone number (with hours of

operation)

: 24-hour telephone number: CHEMTREC 1-800-424-9300; CANUTEC

1-888-226-8832

Medical Emergency telephone number: 1-866-944-8565; U.S. Coast Guard National

Response Center: 1-800-424-8802

## Section 2. Hazard identification

Classification of the substance or mixture : ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) -

Category 2

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200).

GHS label elements

Hazard pictograms :





Signal word : Danger

**Hazard statements** : Harmful if swallowed.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure. (kidneys)

**Precautionary statements** 

General : Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

**Prevention**: Wear eye or face protection. Do not breathe vapor. Do not eat, drink or smoke

when using this product. Wash hands thoroughly after handling.

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version : 1 1/13

## Section 2. Hazard identification

Response

: Get medical attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**Storage** 

: Not applicable.

**Disposal** 

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

Supplemental label

elements

: None known.

Other hazards which do not : None known.

result in classification

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
Polyethylene glycol octylphenyl ether	48.9 - 52	9036-19-5
Water	27.2 - 28.8	7732-18-5
Diethylene glycol	19 - 21	111-46-6
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated	1.5 - 1.6	25322-68-3

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** 

: CORROSIVE. Begin eye irrigation immediately. All eye exposures require medical evaluation following decontamination. Immediately rinse eyes with large quantities of water or saline for a minimum 30 minutes, longer irrigation time is preferred if possible, due to the chemical reaction that occurs - see Notes to Physician below. If possible, remove contact lenses being careful not to cause additional eye damage. If the initial water supply is insufficient, keep the affected area wet with a moist cloth and transfer the person to the nearest place where rinsing can be continued for the recommended length of time. Call an ambulance for transport to hospital. Continue eye irrigation during transport. For additional advice call the medical emergency number on this safety data sheet or your poison center or doctor.

Inhalation

Remove person to fresh air. No known significant effects. Seek medical attention for any signs of wheezing and/or breathing difficulties. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.

Skin contact

: No known significant effects. Rinse the affected areas with water. Remove contaminated clothing, jewelry, and shoes. Wash/clean items before reuse. Seek medical attention for persistent skin pain or irritation. For additional advice call the medical emergency number on this SDS or your poison center or doctor.

Ingestion

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

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version :1 2/13

## Section 4. First-aid measures

## 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** : No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

> pain watering redness

Inhalation : No specific data.

: Adverse symptoms may include the following: Skin contact

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

irritation

nausea or vomiting

diarrhea

### 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.

Contains: Diethylene glycol. Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 ml of water and mix thoroughly. Administer 5 ml/kg, or 350 ml for an average adult.

**Specific treatments** 

Contains: Diethylene glycol. Treat symptomatically. Contact Nutrien's 24 Hr Medical Emergency telephone number for professional support: 1-800-561-8273.

**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. If necessary: Use dry chemical, CO2, water spray (fog) or foam.

**Unsuitable extinguishing** media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

**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.

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version : 1 3/13

## Section 5. Fire-fighting measures

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

Remark

This material is not explosive. Contain and collect the water used to fight the fire for later treatment and disposal.

## 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 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 adverse impacts (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Recover the material and use it for the intended purpose.

Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible.

Dispose of via a licensed waste disposal contractor. 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). 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 : 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.

including any incompatibilities

Conditions for safe storage, : Do not store below the following temperature: 0°C (32°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. See Section 10 for incompatible materials before handling or use.

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version 4/13

## Section 8. Exposure controls/personal protection

#### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Canadian Regulations	
Polyethylene glycol octylphenyl ether	None assigned.
Water	None assigned.
Diethylene glycol	AIHA WEEL (United States, 7/2018).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
Poly( $oxy-1,2$ -ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol,	AIHA WEEL (United States, 7/2018).
ethoxylated	TWA: 10 mg/m <sup>3</sup> 8 hours.
U.S. Federal Regulations	
Poly(oxy-1,2-ethanediyl), α-	None assigned.
[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-	Trong dodignod.
Water	None assigned.
2,2' -oxybisethanol	AIHA WEEL (United States, 7/2018).
, - <b>,</b>	TWA: 10 mg/m <sup>3</sup> 8 hours.
Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol,	AIHA WEEL (United States, 7/2018).
ethoxylated	TWA: 10 mg/m³ 8 hours.

# 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

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

## **Skin protection**

## **Hand protection**

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

## **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. Recommended: Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

## 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.

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version : 1 5/13

## Section 8. Exposure controls/personal protection

**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. Recommended: Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

## Section 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid.

Color : Colorless to light yellow.

Odor Alcohol. **Odor threshold** Not available.

pН 7.1

**Melting point** : Not available. : Not available. **Boiling point** 

: Closed cup: >100°C (>212°F) Flash point

**Evaporation rate** : Not available. : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive

(flammable) limits

Vapor pressure : Not available. Vapor density : Not available. : 1.075 [Water = 1] Relative density **Density** : 1.075 g/cm<sup>3</sup>

**Solubility** : Soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. : Not available. **Viscosity** 

## 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 : Excessive heat. Store and use away from heat, sparks, open flame or any other

ignition source.

**Incompatible materials** : Strong oxidizing materials.

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Date of issue/Date of revision : 7/16/2021 Date of previous issue Version 6/13 : No previous validation

## **Section 11. Toxicological information**

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Polyethylene glycol octylphenyl ether	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	1900 to 5000 mg/kg	-
Diethylene glycol	LD50 Dermal LD50 Oral	Rabbit Rat	11890 mg/kg 12000 mg/kg	-

**Conclusion/Summary** 

: Harmful if swallowed.

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Diethylene glycol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Human	-	50 mg 72 hours 112 mg I	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

**Conclusion/Summary** 

Skin : prolonged exposure: blistering may occur. May cause skin irritation.

: Causes serious eye damage. **Eyes** 

Respiratory : No known significant effects or critical hazards.

**Sensitization** 

Not available.

**Conclusion/Summary** 

Skin : No known significant effects or critical hazards. Respiratory : No known significant effects or critical hazards.

**Mutagenicity** Not available.

**Conclusion/Summary** : No known significant effects or critical hazards.

**Carcinogenicity** 

Not available.

**Reproductive toxicity** 

Not available.

**Conclusion/Summary** : No known significant effects or critical hazards.

**Teratogenicity** 

Not available.

**Conclusion/Summary** : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Diethylene glycol	Category 2	Oral	kidneys

### **Aspiration hazard**

Not available.

Date of issue/Date of revision Version : 7/16/2021 Date of previous issue : No previous validation 7/13

## **Section 11. Toxicological information**

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

## Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.Skin contact : No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

irritation

nausea or vomiting

diarrhea

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

**Short term exposure** 

Potential immediate : See above.

effects

Potential delayed effects : See above.

Long term exposure

Potential immediate : See above.

effects

Potential delayed effects : See below.

### Potential chronic health effects

**Conclusion/Summary** : May cause damage to organs through prolonged or repeated exposure if swallowed.

(kidneys)

General : See above.

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.

## **Section 12. Ecological information**

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Polyethylene glycol octylphenyl ether	Acute EC50 18 to 26 mg/l	Daphnia	48 hours
	Acute LC50 4 to 8.9 mg/l Acute LC50 75200000 μg/l Fresh water	Fish Fish - Pimephales promelas	96 hours 96 hours

**Conclusion/Summary**: Very low acute toxicity to fish.

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version : 1 8/13

## **Section 12. Ecological information**

### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Polyethylene glycol octylphenyl ether	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	>60 % - 28 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
Polyethylene glycol octylphenyl ether	-	-			Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Polyethylene glycol octylphenyl ether	2.7	15	low
Diethylene glycol	-1.98	100	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	TDG Classification	DOT Classification	Mexico Classification	IMDG	IATA
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.

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version : 1 9/13

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according

g : Not available.

to Annex II of MARPOL and

the IBC Code

## Section 15. Regulatory information

### **Canadian lists**

Canadian NPRI : The following components are listed: octylphenol and its ethoxylates

CEPA Toxic substances : None of the components are listed.Canada inventory : All components are listed or exempted.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

China : All components are listed or exempted.

**Europe** : Not determined.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : All components are listed or exempted.

Turkey : Not determined.

**U.S. Federal Regulations** : TSCA 8(a) PAIR: Poly(oxy-1,2-ethanediyl), α-

[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy-

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 8(b) Active inventory: All components are listed or exempted.

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

Date of issue/Date of revision: 7/16/2021Date of previous issue: No previous validationVersion: 1

Super Spreader Adjuvant PCP 17402

## Section 15. Regulatory information

Clean Air Act Section 602

**Class I Substances** 

Clean Air Act Section 602

: Not listed

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

Not listed

(Essential Chemicals)

SARA 302/304 Composition/information on ingredients

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification : Immediate (acute) health hazard

Delayed (chronic) health hazard.

## **Composition/information on ingredients**

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard.
Polyethylene glycol octylphenyl ether 2,2' -oxybisethanol	≥50 - ≤75	No.	No.	No.	Yes.	No.
	≥10 - ≤25	No.	No.	No.	Yes.	Yes.

### State regulations

**Massachusetts** : None of the components are listed. **New York** : None of the components are listed. **New Jersey** : None of the components are listed.

**Pennsylvania** : The following components are listed: ETHANOL, 2,2'-OXYBIS-

California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65.

## Section 16. Other information

#### **History**

Date of issue/Date of

revision

7/16/2021

Date of previous issue

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Version

Indicates information that has changed from previously issued version.

**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 = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

HPR = Hazardous Products Regulations

### Procedure used to derive the classification

Date of issue/Date of revision : 7/16/2021 Date of previous issue Version :1 11/13 : No previous validation

## Section 16. Other information

Classification	Justification
ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) - Category 2	Calculation method Calculation method Calculation method

#### References

: Transportation of Dangerous Goods Act and Clear Language Regulations, current edition at time of SDS preparation, Transport Canada;

Hazardous Products Act and Regulations, current revision at time of SDS preparation, Health Canada;

Domestic Substances List, current revision at time of SDS preparation, Environment Canada;

29 CFR Part 1910, current revision at time of SDS preparation, U.S. Occupational Safety and Health Administration;

40 CFR Parts 1-799, current revision at time of SDS preparation, U.S.

Environmental Protection Agency;

 $49\ \text{CFR}$  Parts 1-199, current revision at time of SDS preparation, U.S. Department of Transport;

Mexican Official Standard NOM-018-STPS-2015, Harmonised System for the Identification and Communication of Hazards and Risks by Hazardous Chemicals in the Workplace;

NORMA Oficial Mexicana NOM-010-STPS-2014, Agentes químicos contaminantes del ambiente laboral-Reconocimiento, evaluación y control.

Mexican Official Standard NOM-002-SCT / 2011, List of the most commonly transported hazardous substances and materials;

Threshold Limit Values for Chemical Substances, current edition at time of SDS preparation, American Conference of Governmental Industrial Hygienists;

NFPA 400, National Fire Codes, National Fire Protection Association, current edition at time of SDS preparation;

NFPA 704, National Fire Codes, National Fire Protection Association, current edition at time of SDS preparation;

Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers;

ERG 2016, Emergency Response Guidebook, U.S. Department of Transport, Transport Canada, and the Secretariat of Transportation and Communications of Mexico

Hazardous Substances Data Bank, current revision at time of SDS preparation, National Library of Medicine, Bethesda, Maryland

Integrated Risk Information System, current revision at time of SDS preparation, U. S. Environmental Protection Agency, Washington, D.C.

Pocket Guide to Chemical Hazards, current revision at time of SDS preparation, National Institute for Occupational Safety and Health, Cincinnati, Ohio;

Agency for Toxic Substances and Disease Registry Databank, current revision at time of SDS preparation, U.S. Department of Health and Human Services, Atlanta, Georgia

National Toxicology Program, Report on Carcinogens, Division of the National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina. Registry of Toxic Effects of Chemical Substances. National Institute for Occupational Safety and Health, Cincinnati, Ohio

California Code of Regulations, Title 27, Div 4, Chapter 1, Proposition 65 Aug 30, 2018 rev and current updates

#### **Notice to reader**

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

### **DISCLAIMER AND LIMITATION OF LIABILITY**

The information and recommendations contained in this Safety Data Sheet ("SDS") relate only to the specific material referred to herein (the "Material") and do not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date of this SDS. HOWEVER, THE INFORMATION AND RECOMMENDATIONS

Date of issue/Date of revision : 7/16/2021 Date of previous issue : No previous validation Version : 1 12/13

## **Section 16. Other information**

ARE PRESENTED WITHOUT WARRANTY, REPRESENTATION OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THEIR ACCURACY, CORRECTNESS OR COMPLETENESS, AND THE SELLER, SUPPLIER AND MANUFACTURER OF THE MATERIAL AND THEIR RESPECTIVE AFFILIATES (COLLECTIVELY, THE "SUPPLIER") DISCLAIM ALL LIABILITY FOR RELIANCE ON SUCH INFORMATION AND RECOMMENDATIONS. This SDS is not a guarantee of safety. A buyer or user of the Material (a "Recipient") is responsible for ensuring that it has all current information necessary to safely use the Material for its specific purpose.

FURTHERMORE, THE RECIPIENT ASSUMES ALL RISK IN CONNECTION WITH THE USE OF THE MATERIAL. THE RECIPIENT ASSUMES ALL RESPONSIBILITY FOR ENSURING THE MATERIAL IS USED IN A SAFE MANNER IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL, HEALTH, SAFETY AND SECURITY LAWS, POLICIES AND GUIDELINES. THE SUPPLIER DOES NOT WARRANT THE MERCHANTABILITY OF THE MATERIAL OR THE FITNESS OF THE MATERIAL FOR ANY PARTICULAR USE AND ASSUMES NO RESPONSIBILITY FOR INJURY OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY OR RELATED TO THE USE OF THE MATERIAL.

Date of issue/Date of revision: 7/16/2021Date of previous issue: No previous validationVersion: 1