



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 08.22.2023

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Predator Carpet Cleaner and Spot Remover

SECTION 1: Identification

Product Identifier

Product Name: Predator Carpet Cleaner and Spot Remover

Product code: ST-404

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Alkaline Degreasing Cleaner

Uses Advised Against: NA

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

United States

JBS Industries

2726 Henkle Drive

Lebanon, Ohio 45036

513-228-2800

SBAETEN@JBSINDUSTRIES.COM

Emergency Telephone Number:

North America

CHEMTREC

800-424-9300 (24 hours)

SECTION 2: Hazard(s) Identification

GHS Classification:

Skin corrosion, category 1B

Serious eye damage, category 1

Skin sensitization, category 1

Label elements

Hazard Pictograms:



Signal Word: Danger

Hazard statements:

H317 May cause an allergic skin reaction

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precautionary Statements:

P272 Contaminated work clothing must not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection

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P260 Do not breathe dust/fume/gas/mist/vapors/spray

P264 Wash hands thoroughly after handling

P302+P352 IF ON SKIN: Wash with plenty of water/ ...

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P405 Store locked up

P501 It is the responsibility of the waste generator to characterize all waste material according to regulatory entities.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 68515-73-1	D-Glucopyranose, oligomers, decyl octyl glycosides	<80
CAS Number: 68439-46-3	Alcohols, C9-11, branched and linear, ethoxylated	<50
CAS Number: 61789-40-0	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	<15
CAS Number: 5064-31-3	Trisodium nitrilotriacetate	0.1-10
CAS Number: 8028-48-6	Orange, sweet, ext.	<20
CAS Number: 1300-72-7	Sodium Xylenesulfonate	<20
CAS Number: 6834-92-0	Disodium metasilicate	<10
CAS Number: 84133-50-6	Alcohols, C12-14-secondary, ethoxylated	<10
CAS Number: 56-81-5	Glycerol	<2.1
CAS Number: 7757-82-6	Sodium sulphate	<1.2
CAS Number: 25322-68-3	Poly (ethylene oxide)	<0.3
CAS Number: 79-43-6	Dichloroacetic acid	<0.063
CAS Number: 75-21-8	Ethylene oxide	<0.05

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CAS Number: 123-91-1	1,4-dioxane	<0.05
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Additional Information: None

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Not determined or not applicable.

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eye Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

Delayed Symptoms and Effects:

Not determined or not applicable.

Immediate Medical Attention and Special Treatment

Specific Treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.

In case of skin contact, seek prompt medical attention while rinsing is continued.

In case of ingestion, seek prompt medical attention.

Notes for the Doctor:

Not determined or not applicable.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

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Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool and dry location and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use. Keep away from food and beverages. Protect from freezing and physical damage.

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Dichloroacetic acid	79-43-6	8-Hour TWA: 0.5 ppm
	Ethylene oxide	75-21-8	8-Hour TWA: 1 ppm

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Glycerol	56-81-5	TLV-TWA: 10 mg/m ³ (8 hr, Particles, insoluble or poorly soluble, not otherwise specified, inhalable)
	Glycerol	56-81-5	TLV-TWA: 3 mg/m ³ (8 hr, Particles, insoluble or poorly soluble, not otherwise specified, respirable)
	1,4-dioxane	123-91-1	8-Hour TWA: 20 ppm
NIOSH	Ethylene oxide	75-21-8	IDLH: 800 ppm
	Ethylene oxide	75-21-8	Ceiling Limit: 9 mg/m ³ (5 ppm [10-min/day])
	Ethylene oxide	75-21-8	REL-TWA: 0.18 mg/m ³ (0.1 ppm [up to 10 hr])
	1,4-dioxane	123-91-1	IDLH: 500 ppm
	1,4-dioxane	123-91-1	Ceiling Limit: 3.6 mg/m ³ (1 ppm [30-min])
OSHA	Ethylene oxide	75-21-8	8-Hour TWA-PEL: 1 ppm
	Ethylene oxide	75-21-8	15-Minute STEL: 5 ppm
	Glycerol	56-81-5	8-Hour TWA-PEL: 15 mg/m ³ (Mist, total)
	Glycerol	56-81-5	8-Hour TWA-PEL: 5 mg/m ³ (Mist, respirable fraction)
	Ethylene oxide	75-21-8	8-Hour TWA: 0.5 ppm (Action level)
	1,4-dioxane	123-91-1	8-Hour TWA-PEL: 360 mg/m ³ (100 ppm)
United States(California)	Ethylene oxide	75-21-8	15-Minute STEL: 5 ppm
	Ethylene oxide	75-21-8	8-Hour TWA-PEL: 2 mg/m ³ (1 ppm)
	Ethylene oxide	75-21-8	8-Hour TWA: 0.5 ppm (Action level)
	Glycerol	56-81-5	8-Hour TWA-PEL: 10 mg/m ³ (Particulates not otherwise regulated, total dust)
	Glycerol	56-81-5	8-Hour TWA-PEL: 5 mg/m ³ (Particulates not otherwise regulated, respirable fraction)
	1,4-dioxane	123-91-1	8-Hour TWA-PEL: 1 mg/m ³ (0.28 ppm)
WEEL	Poly (ethylene oxide)	25322-68-3	8-Hour TWA: 10 mg/m ³

Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Ethylene oxide	75-21-8	N-(2-hydroxyethyl)-valine (HEV) hemoglobin adducts	Hemoglobin adducts	Not critical	5000 pmol/g

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Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
	Ethylene oxide	75-21-8	S-(2-hydroxyethyl) mercapturic acid (HEMA)	Creatinine in urine	End of shift	5 µg/g

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. 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. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Liquid
Odor	Std.
Odor threshold	Not determined or not available.
pH	10
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.

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Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Avoid generation of aerosols and mists, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

None known.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Trisodium nitrilotriacetate	oral	LD50 Rat: 1100 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >5 mg/L (4 hr - Aerosol)
D-Glucopyranose, oligomers, decyl octyl glycosides	oral	LD50 Rat: > 2000 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg

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Name	Route	Result
Sodium sulphate	oral	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 2.4 mg/L (4 hr - Dust)
Dichloroacetic acid	dermal	LD50 Rabbit: 797 mg/kg
	oral	LD50 Rat: 2820 mg/kg
Ethylene oxide	Inhalation ATE	LC50 Rat: 700 ppmV (4 hr (Gas))
	Oral ATE	LD50 Rat: 100 mg/kg
Disodium metasilicate	dermal	LD50 Rat: > 5000 mg/kg
	oral	LD50 Rat: 1152 mg/kg
	inhalation	LC50 Rat: > 2.06 mg/L (4 hr [vapor])
Orange, sweet, ext.	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
Sodium Xylenesulfonate	dermal	LD50 Rabbit: >= 2000 mg/kg
	oral	LD50 Rat: >= 3346 mg/kg
Glycerol	oral	LD50 Rat: 27,200 mg/kg
	dermal	LD50 Guinea Pig: 56,750 mg/kg
	inhalation	LC50 Rat: > 5850 mg/m ³ (4 hr [Aerosol])
1,4-dioxane	oral	LD50 Rat: 5150 mg/kg
	dermal	LD50 Rabbit: 7600 mg/kg
	inhalation	LC50 Rat: 9158 ppmV (4 hr - Vapor)
Alcohols, C9-11, branched and linear, ethoxylated	Oral ATE	LD50 Rat: 500 mg/kg
	dermal	LD50 Rabbit: > 2000 mg/kg
	inhalation	LC50 Rat: >1.6 mg/m ³ (4 hr [Aerosol])
Poly (ethylene oxide)	dermal	LD50 Rat: >2000 mg/kg
	oral	LD50 Rat: >2000 mg/kg

Skin Corrosion/Irritation

Assessment:

Causes severe skin burns and eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Disodium metasilicate	Causes severe skin burns.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Causes skin irritation.
Orange, sweet, ext.	Causes skin irritation.
Dichloroacetic acid	Causes severe skin burns.
Ethylene oxide	Causes severe skin burns.
Alcohols, C12-14-secondary, ethoxylated	Causes skin irritation.

Serious Eye Damage/Irritation

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Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
D-Glucopyranose, oligomers, decyl octyl glycosides	Causes serious eye damage.
Disodium metasilicate	Causes serious eye damage.
Trisodium nitrilotriacetate	Causes serious eye irritation.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Causes serious eye irritation.
Sodium Xylenesulfonate	Causes serious eye irritation.
Dichloroacetic acid	Causes serious eye damage.
Ethylene oxide	Causes serious eye damage.
1,4-dioxane	Causes serious eye irritation.
Alcohols, C9-11, branched and linear, ethoxylated	Causes serious eye damage.
Alcohols, C12-14-secondary, ethoxylated	Causes serious eye damage.

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data:

No data available.

Substance Data:

Name	Result
Orange, sweet, ext.	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Species	Result
Ethylene oxide		May cause cancer.
Trisodium nitrilotriacetate		Suspected of causing cancer.

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Name	Species	Result
1,4-dioxane		May cause cancer. 1,4-dioxane is characterized as "likely to be carcinogenic to humans." This characterization is based on the following findings: (1) inadequate evidence of carcinogenicity in humans, and (2) sufficient evidence in animals (i.e., hepatic tumors in multiple species [three strains of rats, two strains of mouse, and in guinea pigs] mesotheliomas of the peritoneum, mammary, and nasal tumors have also been observed in rats following 2 years of oral exposure to 1,4- dioxane). U.S. Environmental Protection Agency's Integrated Risk Information System (IRIS).
Dichloroacetic acid		Suspected of causing cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
D-Glucopyranose, oligomers, decyl octyl glycosides	Not Applicable
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Not Applicable
Sodium sulphate	Not Applicable
Dichloroacetic acid	Group 2B
Ethylene oxide	Group 1
Disodium metasilicate	Not Applicable
Orange, sweet, ext.	Not Applicable
Sodium Xylenesulfonate	Not Applicable
Glycerol	Not Applicable
Trisodium nitrilotriacetate	Group 2B
Alcohols, C9-11, branched and linear, ethoxylated	Not Applicable
1,4-dioxane	Group 2B
Poly (ethylene oxide)	Not Applicable
Alcohols, C12-14-secondary, ethoxylated	Not Applicable

National Toxicology Program (NTP):

Name	Classification
D-Glucopyranose, oligomers, decyl octyl glycosides	Not Applicable
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Not Applicable
Sodium sulphate	Not Applicable
Dichloroacetic acid	Reasonably anticipated to be human carcinogens
Ethylene oxide	Known to be human carcinogens
Disodium metasilicate	Not Applicable

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Name	Classification
Orange, sweet, ext.	Not Applicable
Sodium Xylenesulfonate	Not Applicable
Glycerol	Not Applicable
Trisodium nitrilotriacetate	Not Applicable
Alcohols, C9-11, branched and linear, ethoxylated	Not Applicable
1,4-dioxane	Reasonably anticipated to be human carcinogens
Poly (ethylene oxide)	Not Applicable
Alcohols, C12-14-secondary, ethoxylated	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Ethylene oxide	May cause genetic defects.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Ethylene oxide	May damage fertility. Suspected of damaging the unborn child.
Dichloroacetic acid	May damage fertility or the unborn child. May cause harm to breast-fed children.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Disodium metasilicate	May cause respiratory irritation.
Ethylene oxide	May cause respiratory irritation. May cause drowsiness or dizziness.
1,4-dioxane	May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

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Name	Result
Ethylene oxide	Studies on the effects of Ethylene oxide have concluded not only neurotoxic symptoms in humans, but also measured effects on nerve conduction velocities indicative of sensorimotor neuropathy, and axonal degeneration observed in nerve biopsies of exposed workers.
Dichloroacetic acid	May cause damage to organs (brain, liver, testes) through prolonged or repeated exposure

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Orange, sweet, ext.	Maybe fatal if swallowed and enters airways.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
D-Glucopyranose, oligomers, decyl octyl glycosides	Fish LC50 Danio rerio: 100.81 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodesmus subspicatus: 27.22 mg/L (72 hr [growth rate])
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Fish LC50 Danio rerio: 2 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 6.4 mg/L (48 hr [mobility])
Sodium sulphate	Fish LC50 Pimephales promelas: 7960 mg/L (96 hr)
	Aquatic Invertebrates LC50 Daphnia magna: 1766 mg/L (48 hr)
Dichloroacetic acid	Fish LC50 Marine water fish: >2000 mg/L (96 h)
	Aquatic Plants EC50 Marine water algae: 148.2 mg/L (72 h [cell number])
Ethylene oxide	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 240 mg/L (96 h, read-across substance data)
	Aquatic Invertebrates LC50 Daphnia magna: 212 mg/L (48 h)
	Fish LC50 Pimephales promelas: 84 mg/L (96 h)

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Name	Result
Disodium metasilicate	Aquatic Plants EC50 Freshwater algae: 207 mg/L (72 hr [biomass; read-across])
	Fish LC50 Danio rerio: 210 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 1700 mg/L (48 hr [read-across])
Orange, sweet, ext.	Aquatic Plants EC50 Desmodesmus subspicatus: 150 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 8.5 mg/L (48 hr [mobility])
Sodium Xylenesulfonate	Aquatic Plants EC50 Selenastrum capricornutum: >=758 mg/L (96 hr [growth rate; read-across])
	Fish LC50 Oncorhynchus mykiss: >=1580 mg/L (96 hr [read-across])
	Aquatic Invertebrates EC50 Daphnia magna: >1020 mg/L (48 hr [mobility; read-across])
Glycerol	Fish LC50 Oncorhynchus mykiss: 54,000 mg/L (96 hr)
	Aquatic Invertebrates LC50 Daphnia magna: 1955 mg/L (48 hr)
Trisodium nitrilotriacetate	Fish LC50 Pimephales promelas: 114 mg/L (96 hr)
	Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (72 hr [growth rate])
	Aquatic Invertebrates EC50 Daphnia magna: 560 mg/L (96 hr [mortality])
Alcohols, C9-11, branched and linear, ethoxylated	Fish LC50 Oncorhynchus mykiss: 5 - 7 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 2.5 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: 1.4 mg/L (96 hr [cell number])
1,4-dioxane	Fish LC50 Pimephales promelas: 9850 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >1000 mg/L (48 hr)
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: >1000 mg/L (72 hr)
Poly (ethylene oxide)	Fish LC50 Poecilia reticulata: > 100 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (96 hr [growth rate])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
D-Glucopyranose, oligomers, decyl octyl glycosides	Fish NOEC Danio rerio: 1.8 mg/L (28 d [read-across])
	Aquatic Invertebrates NOEC Daphnia magna: 2 mg/L (21 d [read-across])
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Aquatic Invertebrates NOEC Daphnia magna: 0.9 mg/L (21 d [reproduction])
Sodium sulphate	Aquatic Invertebrates EC50 Ceriodaphnia dubia: 1698 mg/L (7 d [reproduction])
Trisodium nitrilotriacetate	Aquatic Invertebrates LC50 Pagurus longicarpus: 1875 mg/L (7 d)

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Name	Result
Alcohols, C9-11, branched and linear, ethoxylated	Fish NOEC Lepomis macrochirus: > 0.33 mg/L (30 d [mortality])
	Aquatic Invertebrates NOEC Daphnia magna: 0.77 mg/L (21 d [reproduction])
1,4-dioxane	Fish NOEC Pimephales promelas: 145 mg/L (32 d)
	Aquatic Invertebrates NOEC Daphnia magna: 1000 mg/L (21 d)
Poly (ethylene oxide)	Aquatic Invertebrates NOEC Daphnia magna: 17,475 mg/L (21 d [QSAR])
	Fish NOEC guppy fish: 13,671 mg/L (28 d (read-across substance))

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
D-Glucopyranose, oligomers, decyl octyl glycosides	The substance is readily biodegradable in water. 100% degradation, measured by DOC removal, after 28 days.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Substance is readily biodegradable in water (50% degradation after 1 day; >90% degradation after 5 days).
Dichloroacetic acid	The substance is readily biodegradable. 93% degradation, measured by Oxygen consumption, after 15 days.
Ethylene oxide	Readily biodegradable (96% degradation after 28 days, measured by TOC removal).
Disodium metasilicate	Biodegradation studies are not applicable to inorganic substances.
Orange, sweet, ext.	The substance is readily biodegradable. 75% degradation, measured by O2 consumption, after 28 days.
Sodium Xylenesulfonate	The substance is readily biodegradable. 83 - 85% degradation, measured by CO2 evolution, after 28 days.
Glycerol	The substance is readily biodegradable. 94% degradation, measured by TOC removal, after 24 hr.
Trisodium nitrilotriacetate	Substance is readily biodegradable. >95% degradation in water, measured by DOC removal, after 28 days.
1,4-dioxane	Not readily biodegradable (< 10 % degradation after 29 days, measured by CO2 evolution).
Alcohols, C9-11, branched and linear, ethoxylated	Substance is Readily biodegradable. 72% degradation in water, measured by inorganic C analysis, after 28 days.
Poly (ethylene oxide)	Readily biodegradable (74.85% degradation [O2 consumption] after 28 days).

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Substance is not expected to bioaccumulate significantly (estimated BCF: 70.79 L/kg).
Sodium sulphate	This substance is not expected to bioaccumulate. It dissociates in water and the sulfate ion is easily reduced in the sulfur cycle.

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Name	Result
Dichloroacetic acid	This substance has low potential for bioaccumulation.
Ethylene oxide	Low potential for bioaccumulation (logKow = -0.3).
Disodium metasilicate	Silicon is an essential trace element participating in the normal metabolism of higher animals.
Orange, sweet, ext.	The substance has a low potential for bioaccumulation. BCF [QSAR]: 32 L/kg - 395 L/kg
Glycerol	The substance has a low potential for bioaccumulation based on log Kow <=3.
Trisodium nitrilotriacetate	Bioaccumulation is not expected. BCF (aquatic species): 3 L/kg ww
Alcohols, C9-11, branched and linear, ethoxylated	The substance has the potential to bioaccumulate (log Pow=3.3 - 3.73).
1,4-dioxane	Does not accumulate in aquatic organisms (mean BCF: 0.45).
Poly (ethylene oxide)	Not bioaccumulative in aquatic organisms (calculated BCF: 3.162 L/Kg ww).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	Substance is mobile to moderately mobile (experimental log Koc: 1.812 dimensionless; calculated Koc: 648 L/kg); therefore, moderate adsorption to soil can be expected.
D-Glucopyranose, oligomers, decyl octyl glycosides	Substance is expected to be mobile (log Koc: 1.7); therefore, adsorption to soil is not expected.
Sodium sulphate	This substance is not expected to adsorb onto soil or sediment. It dissociates in water and the sulfate ion is easily reduced in the sulfur cycle.
Dichloroacetic acid	This substance will not adsorb at all to soils or sediments should these environmental compartments be exposed to it.
Trisodium nitrilotriacetate	The substance has a low potential for adsorption to soil and sediment. log Kp (sediment-water): 1.6 L/kg
Alcohols, C9-11, branched and linear, ethoxylated	The substance is moderately mobile (log Koc: 1.575 - 2.365).
1,4-dioxane	Significant adsorption to solid soil phase is not expected (calculated log Koc: 0.51 at 25 °C).
Poly (ethylene oxide)	Substance is mobile in soil with a low potential for adsorption to soil and sediment. (at 25 °C log Koc: 1.857 dimensionless).

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

D-Glucopyranose, oligomers, decyl octyl glycosides	The substance is not PBT.
Disodium metasilicate	PBT assessment does not apply to inorganic substances.

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Trisodium nitrilotriacetate	The substance is not PBT.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	The substance is not PBT.
Sodium sulphate	PBT assessment does not apply to inorganic substances.
Orange, sweet, ext.	The substance is not PBT.
Dichloroacetic acid	The substance is not PBT.
Ethylene oxide	This substance is not PBT.
Sodium Xylenesulfonate	The substance is not PBT.
Glycerol	The substance is not PBT.
Alcohols, C9-11, branched and linear, ethoxylated	The substance is not PBT.
1,4-dioxane	Under assessment as Persistent, Bioaccumulative and Toxic (PBT list).
Poly (ethylene oxide)	The substance is not PBT.

vPvB assessment:

D-Glucopyranose, oligomers, decyl octyl glycosides	The substance is not vPvB.
Trisodium nitrilotriacetate	The substance is not vPvB.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	The substance is not vPvB.
Sodium sulphate	vPvB assessment does not apply to inorganic substances.
Orange, sweet, ext.	The substance is not vPvB.
Dichloroacetic acid	The substance is not vPvB.
Ethylene oxide	This substance is not vPvB.
Disodium metasilicate	vPvB assessment does not apply to this substance as it is inorganic.
Sodium Xylenesulfonate	The substance is not vPvB.
Glycerol	The substance is not vPvB.
Alcohols, C9-11, branched and linear, ethoxylated	The substance is not vPvB.
1,4-dioxane	This substance is not vPvB.
Poly (ethylene oxide)	The substance is not vPvB.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

It is the responsibility of the waste generator to characterize all waste material according to regulatory entities.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

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UN Number	Not Regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances:

75-21-8	Ethylene oxide	Listed
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SARA Section 313 Toxic Chemicals:

75-21-8	Ethylene oxide	Listed
5064-31-3	Trisodium nitrilotriacetate	Listed
123-91-1	1,4-dioxane	Listed

CERCLA:

75-21-8	Ethylene oxide	Listed	10 lbs
123-91-1	1,4-dioxane	Listed	100 lbs

RCRA:

75-21-8	Ethylene oxide	Listed	U115
123-91-1	1,4-dioxane	Listed	U108

Section 112(r) of the Clean Air Act (CAA):

75-21-8	Ethylene oxide	Listed
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Massachusetts Right to Know:

7757-82-6	Sodium sulphate	Listed
75-21-8	Ethylene oxide	Listed
56-81-5	Glycerol	Listed
5064-31-3	Trisodium nitrilotriacetate	Listed
123-91-1	1,4-dioxane	Listed

New Jersey Right to Know:

79-43-6	Dichloroacetic acid	Listed
75-21-8	Ethylene oxide	Listed
56-81-5	Glycerol	Listed
123-91-1	1,4-dioxane	Listed

New York Right to Know:

7757-82-6	Sodium sulphate	Listed
79-43-6	Dichloroacetic acid	Listed
75-21-8	Ethylene oxide	Listed
123-91-1	1,4-dioxane	Listed

Pennsylvania Right to Know:

7757-82-6	Sodium sulphate	Listed
75-21-8	Ethylene oxide	Listed
56-81-5	Glycerol	Listed
123-91-1	1,4-dioxane	Listed

California Proposition 65:

⚠️WARNING: This product can expose you to 1,4-dioxane; which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

⚠️WARNING: This product can expose you to chemicals including Dichloroacetic acid and Ethylene oxide; which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0

HMIS: 0-0-0

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End of Safety Data Sheet