



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 01.28.2022

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Revision date: 05.16.2022

Shine Time Ceramic Glow Protectant

SECTION 1: Identification

Product Identifier

Product Name: Shine Time Ceramic Glow Protectant

Product code: CPS 610

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Only for use as a spray wax in automatic cash wash machinery

Uses Advised Against: Not for consumption or contact with skin or eyes

Reasons Why Uses Advised Against: Irritant to skin and damaging to eyes.

Manufacturer or Supplier Details

Manufacturer:

United States

JBS Industries

2550 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

Label elements

Hazard Pictograms:



Signal Word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precautionary Statements:

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

P264 Wash hands thoroughly after handling

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

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

P363 Wash contaminated clothing before reuse

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

P310 Immediately call a POISON CENTER/doctor/...

P321 Specific treatment (see ... on this label)

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 Dispose of contents/container to...

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 7732-18-5	Water	<33
CAS Number: 64741-44-2	Distillates (petroleum), straight-run middle	<30
CAS Number: 111-76-2	2-Butoxyethanol	<9.94999
CAS Number: 67-63-0	Propan-2-ol	<9
CAS Number: 56-81-5	Glycerol	<1.5
CAS Number: 556-67-2	Octamethylcyclotetrasiloxane	<0.8
CAS Number: 50-00-0	Formaldehyde	<0.045
CAS Number: 79-43-6	Dichloroacetic acid	<0.045
CAS Number: 74-87-3	Methyl chloride	<0.027
CAS Number: 107-21-1	Ethane-1,2-diol	<0.009

Additional Information: None

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

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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:

Treatment is urgent. Seek emergency medical treatment. Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse.

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:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

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. Seek immediate medical attention.

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.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate Medical Attention and Special Treatment

Specific Treatment:

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

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

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

Unsuitable Extinguishing Media:

Do not use water jet.

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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). Prevent skin contact. Do not get in eyes. Use only with adequate ventilation. Do not add water to the corrosive product. If it is necessary to mix a corrosive product with water, do so slowly adding the corrosive to cold water, in small amounts, and stir frequently. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use. Keep only in original packaging. 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. Do not get in eyes. Avoid contact with skin 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, dry, well-ventilated location out of direct sunlight and away from exit paths. Store in a corrosion-resistant container with a resistant inner liner. Inspect containers and storage area regularly for signs of leak and damage. Store containers at a convenient height for handling, below eye level if possible. High shelving increases the risk of dropping containers, personal injury and exposure. Ensure that appropriate fire fighting and spill-clean up equipment is readily available. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Store separately. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages.

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Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

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
OSHA	Glycerol	56-81-5	8-Hour TWA-PEL: 15 mg/m ³ (Total dust [Table Z-1])
	Glycerol	56-81-5	8-Hour TWA-PEL: 5 mg/m ³ (Respirable fraction [Table Z-1])
	Formaldehyde	50-00-0	8-Hour TWA-PEL: 0.75 ppm
	Formaldehyde	50-00-0	15-Minute STEL: 2 ppm
	Formaldehyde	50-00-0	8-Hour TWA-PEL: 0.5 ppm (Action level)
	Propan-2-ol	67-63-0	8-Hour TWA-PEL: 980 mg/m ³ (400 ppm)
	Methyl chloride	74-87-3	8-Hour TWA: 100 ppm
	Methyl chloride	74-87-3	Ceiling Limit: 200 ppm
	Methyl chloride	74-87-3	TWA: 50 ppm
	Methyl chloride	74-87-3	STEL: 100 ppm
	Ethane-1,2-diol	107-21-1	Ceiling Limit: 125 mg/m ³ (50 ppm)
	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 240 mg/m ³ (50 ppm [Table Z-1])
	2-Butoxyethanol	111-76-2	8-Hour TWA: 120 mg/m ³ (25 ppm [Table Z-1-A])
ACGIH	Glycerol	56-81-5	8-Hour TWA: 10 mg/m ³ (Particles (insoluble or poorly soluble) not otherwise specified - inhalable)
	Glycerol	56-81-5	8-Hour TWA: 3 mg/m ³ (Particles (insoluble or poorly soluble) not otherwise specified - respirable)
	Formaldehyde	50-00-0	15-Minute STEL: 0.3 ppm
	Formaldehyde	50-00-0	8-Hour TWA: 0.1 ppm
	Dichloroacetic acid	79-43-6	8-Hour TWA: 0.5 ppm
	Propan-2-ol	67-63-0	15-Minute STEL: 400 ppm
	Propan-2-ol	67-63-0	8-Hour TWA: 200 ppm
	Methyl chloride	74-87-3	8-Hour TWA: 50 ppm
	Methyl chloride	74-87-3	15-Minute STEL: 100 ppm
	Ethane-1,2-diol	107-21-1	8-Hour TWA: 25 ppm (vapor fraction)
	Ethane-1,2-diol	107-21-1	15-Minute STEL: 50 ppm (vapor fraction)
	Ethane-1,2-diol	107-21-1	15-Minute STEL: 10 mg/m ³ (aerosol only, inhalable fraction)
	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 20 ppm
United States(California)	Glycerol	56-81-5	8-Hour TWA-PEL: 10 mg/m ³ (Total dust [mist])
	Glycerol	56-81-5	8-Hour TWA-PEL: 5 mg/m ³ (Respirable fraction [mist])

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Formaldehyde	50-00-0	15-Minute STEL: 2 ppm
	Formaldehyde	50-00-0	8-Hour TWA-PEL: 0.75 ppm
	Formaldehyde	50-00-0	8-Hour TWA: 0.5 ppm (Action level)
	Propan-2-ol	67-63-0	8-Hour TWA-PEL: 980 mg/m ³ (400 ppm - Cal/OSHA)
	Propan-2-ol	67-63-0	REL: 3200 ug/m ³ (Acute Inhalation)
	Propan-2-ol	67-63-0	REL: 7000 ug/m ³ (Chronic Inhalation)
	Methyl chloride	74-87-3	8-Hour TWA: 50 ppm
	Methyl chloride	74-87-3	15-Minute STEL: 100 ppm
	Methyl chloride	74-87-3	Ceiling Limit: 300 ppm
	Ethane-1,2-diol	107-21-1	Ceiling Limit: 100 mg/m ³ (40 ppm)
	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 97 mg/m ³ (20 ppm)
	2-Butoxyethanol	111-76-2	REL: 4700 ug/m ³ (Acute inhalation)
	2-Butoxyethanol	111-76-2	REL: 164 ug/m ³ (8-hour Inhalation)
	2-Butoxyethanol	111-76-2	REL: 82 ug/m ³ (Chronic inhalation)
NIOSH	Formaldehyde	50-00-0	REL-TWA: 0.016 ppm (up to 10 hr)
	Formaldehyde	50-00-0	Ceiling Limit: 0.1 ppm (15 min)
	Formaldehyde	50-00-0	IDLH: 20 ppm
	Propan-2-ol	67-63-0	IDLH: 2000 ppm
	Propan-2-ol	67-63-0	15-Minute STEL: 500 ppm (1,225 mg/m ³)
	Propan-2-ol	67-63-0	REL-TWA: 400 ppm (980 mg/m ³ - up to 10 hrs.)
	Methyl chloride	74-87-3	IDLH: 2000 ppm
	2-Butoxyethanol	111-76-2	IDLH: 700 ppm
	2-Butoxyethanol	111-76-2	REL-TWA: 24 mg/m ³ (5 ppm [up to 10 hr])
WEEL	Octamethylcyclotetrasiloxane	556-67-2	8-Hour TWA: 10 ppm

Biological Limit Values:

Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work week	40 mg/L
	2-Butoxyethanol	111-76-2	Butoxyacetic acid (with hydrolysis)	Creatinine in Urine	End of shift	200 mg/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

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below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Use safety glasses with side shields or goggles. Consider the use of a face shield for splash protection. 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. 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. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Full body protection should be worn. 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	Not determined or not available.
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
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.
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.

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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:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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
Glycerol	oral	LD50 Mouse: 4090 mg/kg
	dermal	LD50 Rabbit: >10000 mg/kg
	inhalation	LC50 Rat: >2.75 mg/L (4 hr [Vapor])
Formaldehyde	oral	LD50 Rat: 100 mg/kg
	inhalation	LC50 Rat: <463 ppmV (4 hr (vapor))
	dermal	LD50 Rabbit: 270 mg/kg
Dichloroacetic acid	dermal	LD50 Rabbit: 797 mg/kg
	oral	LD50 Rat: 2820 mg/kg
Octamethylcyclotetrasiloxane	oral	LD50 Rat: > 4800 mg/kg
	dermal	LD50 Rat: > 2375 mg/kg
	inhalation	LC50 Rat: 36 mg/L (4 hr [aerosol])
Distillates (petroleum), straight-run middle	inhalation	LC50 Rat: >2.53 mg/L (4 Hours)

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Name	Route	Result
Propan-2-ol	oral	LD50 Rat: 5840 mg/kg
	dermal	LD50 Rabbit: 12,800 mg/kg
	inhalation	LC50 Rat: 72.6 mg/L (4 hr - Vapor)
Methyl chloride	inhalation	LC50 Rat: 5300 mg/m ³ (4h)
	oral	LD50 Rat: 1800 mg/kg
Ethane-1,2-diol	oral	LD50 Human: LDLo: 398 mg/kg
	dermal	LD50 Mouse: > 3500 mg/kg
2-Butoxyethanol	dermal	LD50 Rabbit: 220 mg/kg
	inhalation	LC50 Rat: 450 ppmV (4 hr - Vapor)
	Oral ATE	LD50 Rat: 1200 mg/kg (Annex VI to the CLP)
	oral	LD50 Rat: 470 mg/kg

Skin Corrosion/Irritation

Assessment:

Causes severe skin burns and eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Formaldehyde	Causes severe skin burns.
Dichloroacetic acid	Causes severe skin burns.
2-Butoxyethanol	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Formaldehyde	Causes serious eye damage.
Dichloroacetic acid	Causes serious eye damage.
Propan-2-ol	Causes serious eye irritation.
2-Butoxyethanol	Causes serious eye irritation.

Respiratory or Skin Sensitization

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

Product Data:

No data available.

Substance Data:

Name	Result
Formaldehyde	May cause an allergic skin reaction.

Carcinogenicity

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

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Product Data: No data available.

Substance Data:

Name	Species	Result
Formaldehyde		May cause cancer.
Methyl chloride	Rat	Suspected of causing cancer via inhalation route affecting the kidneys.

International Agency for Research on Cancer (IARC):

Name	Classification
Water	Not Applicable
Glycerol	Not Applicable
Formaldehyde	Group 1
Dichloroacetic acid	Group 2B
Octamethylcyclotetrasiloxane	Not Applicable
Propan-2-ol	Group 3
Methyl chloride	Group 3
Ethane-1,2-diol	Not Applicable
2-Butoxyethanol	Group 3

National Toxicology Program (NTP):

Name	Classification
Water	Not Applicable
Glycerol	Not Applicable
Formaldehyde	Known to be human carcinogens
Dichloroacetic acid	Reasonably anticipated to be human carcinogens
Octamethylcyclotetrasiloxane	Not Applicable
Propan-2-ol	Not Applicable
Methyl chloride	Not Applicable
Ethane-1,2-diol	Not Applicable
2-Butoxyethanol	Not Applicable

OSHA Carcinogens:

Ingredient Name	CAS	OSHA Carcinogens Status
Formaldehyde	50-00-0	Yes

Germ Cell Mutagenicity

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

Product Data:

No data available.

Substance Data:

Name	Result
Formaldehyde	Suspected of causing genetic defects.

Reproductive Toxicity

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

Product Data:

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No data available.

Substance Data:

Name	Result
Octamethylcyclotetrasiloxane	Suspected of damaging fertility.

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
Formaldehyde	May cause respiratory irritation.
Propan-2-ol	May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure)

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

Product Data:

No data available.

Substance Data:

Name	Result
Distillates (petroleum), straight-run middle	May cause damage to spleen, liver, and bone marrow through prolonged or repeated exposure.
Methyl chloride	May causes damage to organs 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
Distillates (petroleum), straight-run middle	May be 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:

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Name	Result
Glycerol	Fish LC50 Pimephales promelas: 885 mg/L (96 H)
	Aquatic Invertebrates EC50 Daphnia magna: 1955 mg/L (48 H)
Dichloroacetic acid	Aquatic Invertebrates EC50 Daphnia magna: 106 mg/L (24 hr)
	Fish LC50 Marine water fish: >2000 mg/L (96 hr)
	Aquatic Plants EC50 Marine water algae: 148.2 mg/L (72 hr)
Octamethylcyclotetrasiloxane	Aquatic Plants EC50 Pseudokirchneriella subcapitata: > 0.022 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 0.015 mg/L (48 hr)
	Fish LC50 Oncorhynchus mykiss: > 0.022 mg/L (96 hr)
Ethane-1,2-diol	Aquatic Plants EC50 Green Algae: 479 mg/L (72 h)
	Aquatic Invertebrates EC50 Daphnia magna: 13,900 mg/L (48 h)
	Fish LC50 Pimephales promelas: 72,860 mg/L (96 h)
2-Butoxyethanol	Aquatic Invertebrates EC50 Daphnia magna: 1,550 mg/L (48 hr)
	Fish LC50 Oncorhynchus mykiss: 1,474 mg/L (96 hr)

Chronic (Long-Term) Toxicity

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

Product Data: No data available.

Substance Data:

Name	Result
Glycerol	Bacteria NOEC Pseudomonas putida: >10000 mg/L (16 H)
Octamethylcyclotetrasiloxane	Fish NOEC Oncorhynchus mykiss: \geq 0.0044 mg/L (93 d)
	Aquatic Invertebrates NOEC Daphnia magna: \geq 0.015 mg/L (21 d)
	Aquatic Plants NOEC Pseudokirchneriella subcapitata: < 0.022 mg/L (96 hr)
Ethane-1,2-diol	Fish NOEC Pimephales promelas: 2629 mg/L (7 d)
	Aquatic Invertebrates EC50 Daphnia magna: 690 mg/L (16 d)
2-Butoxyethanol	Fish NOEC Danio rerio: > 100 mg/L (21 d)
	Aquatic Invertebrates NOEC Daphnia magna: 100 mg/L (21 d)

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Glycerol	Readily biodegradable (94% degradation after 24 hours).
Formaldehyde	Readily biodegradable (99% degradation after 28 days).
Dichloroacetic acid	This substance is readily biodegradable.
Octamethylcyclotetrasiloxane	Under test conditions, little biodegradation observed (3.7% biodegradation [CO2 evolution] after 29 days).
Distillates (petroleum), straight-run middle	Readily biodegradable.
Propan-2-ol	Readily biodegradable in water.
Methyl chloride	This substance is readily biodegradable (77% biodegraded in 28 days).
Ethane-1,2-diol	Readily biodegradable (90-100% degradation after 10 days).
2-Butoxyethanol	Readily biodegradable (90.4% degradation after 28 days).

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Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Glycerol	The substance is not expected to bioaccumulate (log Kow = -1.76).
Formaldehyde	Accumulation in aquatic organisms is not to be expected.
Dichloroacetic acid	This substance has low potential for bioaccumulation.
Octamethylcyclotetrasiloxane	Substance is expected to bioaccumulate (BCF: 12,400 L/kg).
Propan-2-ol	Not expected to bioaccumulate (log Kow: 0.05).
Ethane-1,2-diol	Bioaccumulation in organisms is not to be expected (log Kow: -1.36).
2-Butoxyethanol	Not expected to bioaccumulate (log Kow = 0.83).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Glycerol	Given that this substance is a common biochemical present in most if not all species, there is no reason to believe that it wouldn't be rapidly degraded in soil.
Formaldehyde	Adsorption to solid soil phase is possible.
Dichloroacetic acid	This substance will not adsorb at all to soils or sediments should these environmental compartments be exposed to it.
Octamethylcyclotetrasiloxane	Substance is hardly mobile (log Koc: 4.22); therefore, adsorption to soil is expected.
Ethane-1,2-diol	Highly mobile (Koc: 1 L/kg).

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:

Glycerol	The substance is not PBT.
Formaldehyde	Not a PBT substance.
Dichloroacetic acid	This substance is not PBT.
Octamethylcyclotetrasiloxane	Substance is PBT.
Distillates (petroleum), straight-run middle	Substance is not PBT.
Propan-2-ol	This substance is not PBT.
Methyl chloride	The substance is not PBT.
Ethane-1,2-diol	Substance is not PBT.
2-Butoxyethanol	This substance is not PBT.

vPvB assessment:

Glycerol	The substance is not vPvB.
Formaldehyde	Not a vPvB substance.
Dichloroacetic acid	This substance is not vPvB.
Octamethylcyclotetrasiloxane	Substance is vPvB.

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Distillates (petroleum), straight-run middle	Substance is not vPvB.
Propan-2-ol	This substance is not vPvB.
Methyl chloride	The substance is not vPvB.
Ethane-1,2-diol	Substance is not vPvB.
2-Butoxyethanol	This 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 properly characterize all waste materials according to applicable regulatory entities

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

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

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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):

7732-18-5	Water	Not Listed
56-81-5	Glycerol	Not Listed
50-00-0	Formaldehyde	Not Listed
79-43-6	Dichloroacetic acid	Not Listed
556-67-2	Octamethylcyclotetrasiloxane	Listed
64741-44-2	Distillates (petroleum), straight-run middle	Not Listed
67-63-0	Propan-2-ol	Not Listed
74-87-3	Methyl chloride	Not Listed
107-21-1	Ethane-1,2-diol	Not Listed
111-76-2	2-Butoxyethanol	Not Listed

SARA Section 302 Extremely Hazardous Substances:

50-00-0	Formaldehyde	Listed
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SARA Section 313 Toxic Chemicals:

50-00-0	Formaldehyde	Listed
67-63-0	Propan-2-ol	Listed
74-87-3	Methyl chloride	Listed
107-21-1	Ethane-1,2-diol	Listed
111-76-2	2-Butoxyethanol	Listed

CERCLA:

50-00-0	Formaldehyde	Listed	100 lb
74-87-3	Methyl chloride	Listed	100
107-21-1	Ethane-1,2-diol	Listed	5000 lb
111-76-2	2-Butoxyethanol	Listed	N/A

RCRA:

50-00-0	Formaldehyde	Listed	U122
74-87-3	Methyl chloride	Listed	U045

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

50-00-0	Formaldehyde	Listed
74-87-3	Methyl chloride	Listed

Massachusetts Right to Know:

56-81-5	Glycerol	Listed
50-00-0	Formaldehyde	Listed
67-63-0	Propan-2-ol	Listed

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74-87-3	Methyl chloride	Listed
107-21-1	Ethane-1,2-diol	Listed
111-76-2	2-Butoxyethanol	Listed

New Jersey Right to Know:

56-81-5	Glycerol	Listed
50-00-0	Formaldehyde	Listed
79-43-6	Dichloroacetic acid	Listed
67-63-0	Propan-2-ol	Listed
74-87-3	Methyl chloride	Listed
107-21-1	Ethane-1,2-diol	Listed
111-76-2	2-Butoxyethanol	Listed

New York Right to Know:

50-00-0	Formaldehyde	Listed
79-43-6	Dichloroacetic acid	Listed
64741-44-2	Distillates (petroleum), straight-run middle	Listed
67-63-0	Propan-2-ol	Listed
74-87-3	Methyl chloride	Listed
107-21-1	Ethane-1,2-diol	Listed
111-76-2	2-Butoxyethanol	Listed

Pennsylvania Right to Know:

56-81-5	Glycerol	Listed
50-00-0	Formaldehyde	Listed
67-63-0	Propan-2-ol	Listed
74-87-3	Methyl chloride	Listed
107-21-1	Ethane-1,2-diol	Listed
111-76-2	2-Butoxyethanol	Listed

California Proposition 65:

⚠️WARNING: This product can expose you to Formaldehyde; which is known to the State of California to cause cancer; and Methyl chloride and Ethane-1,2-diol, 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.

⚠️WARNING: This product can expose you to Dichloroacetic acid; which is 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.

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HMIS: 0-0-0

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End of Safety Data Sheet