

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 01.01.2023

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H2OFF® 3XC

SECTION 1: Identification

Product Identifier

Product Name: H2OFF® 3XC

Product code: QW-3X6

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Commercial Car Wash Rain Repel - Surface Protectant

Uses Advised Against: Not determined or not applicable.

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

Manufacturer or Supplier Details

Manufacturer:

United States

Quest Car Care Products

3333 Production Ct.

Zeeland, Michigan 49464

616-772-5100

www.questcarcare.com

Emergency Telephone Number:

United States

CHEMTREC

1-800-424-9300 (24 hrs)

1-800-262-8200 (24 hrs)

1-703-527-3887 (24 hrs (international))

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (oral), category 4

Skin corrosion, category 1C

Serious eye damage, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Aspiration hazard, category 1

Label elements

Hazard Pictograms:



Signal Word: Danger

Hazard statements:

H318 Causes serious eye damage

H302 Harmful if swallowed

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H304 May be fatal if swallowed and enters airways

H335 May cause respiratory irritation

H314 Causes severe skin burns and eye damage

Precautionary Statements:

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

P264 Wash hands/skin thoroughly after contact with or handling.

P270 Do not eat, drink or smoke when using this product

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P271 Use only outdoors or in a well-ventilated area

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

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

P310 Immediately call a POISON CENTER/911/PHYSICIAN IF: swallowed, eye contact, skin burns/rash or breathing difficulties.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

P331 Do NOT induce vomiting

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/911 and follow first aid procedures on this SDS.

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

P312 Call a POISON CENTER/911/PHYSICIAN if you feel unwell.

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

P321 Specific treatment (see first aid procedures on the product label in section 4 of this SDS)

P405 Store locked up

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P501 Dispose of contents/container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 7732-18-5	Water	25-50
CAS Number: 111-76-2	2-Butoxyethanol	15-25
CAS Number: 61789-77-3	Quaternary ammonium compounds, dicoco, alkyldimethyl	15-25
CAS Number: Proprietary	Distillates	5-15
CAS Number: Proprietary Mixture	Aminosiloxanes	5-15
CAS Number: 107-41-5	2,4-Pentanediol, 2-methyl-	1-5

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CAS Number: 556-67-2	Octamethylcyclotetrasiloxane	1-5
CAS Number: 64-19-7	Acetic Acid	0.1-1

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. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

Show this Safety Data Sheet to the doctor in attendance.

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 symptoms develop or persist, seek medical advice/attention.

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.

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.

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.

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.

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:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. 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.

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.

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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.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

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

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

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:

Symptoms of exposure may be delayed.

Symptoms of pulmonary edema may be delayed.

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

Immediate Medical Attention and Special Treatment

Specific Treatment:

If respiratory symptoms persist, seek medical attention.

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:

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.

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.

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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). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

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:

Harmful if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. 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).

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

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. 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.

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.

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.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of

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ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10). 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).

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	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 240 mg/m ³ (50 ppm)
	Acetic Acid	64-19-7	8-Hour TWA-PEL: 25 mg/m ³ (10 ppm)
NIOSH	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])
	2,4-Pentanediol, 2-methyl-	107-41-5	Ceiling Limit: 125 mg/m ³ (25 ppm)
	Acetic Acid	64-19-7	IDLH: 50 ppm
	Acetic Acid	64-19-7	15-Minute STEL: 37 mg/m ³ (15 ppm)
	Acetic Acid	64-19-7	REL-TWA: 25 mg/m ³ (10 ppm [up to 10 hr])
ACGIH	2-Butoxyethanol	111-76-2	8-Hour TWA: 20 ppm
	2,4-Pentanediol, 2-methyl-	107-41-5	8-Hour TWA: 25 ppm (vapor fraction)
	2,4-Pentanediol, 2-methyl-	107-41-5	15-Minute STEL: 50 ppm (vapor fraction)
	2,4-Pentanediol, 2-methyl-	107-41-5	15-Minute STEL: 10 mg/m ³ (inhalable particulate matter, aerosol only)
	Acetic Acid	64-19-7	15-Minute STEL: 15 ppm
	Acetic Acid	64-19-7	8-Hour TWA: 10 ppm
United States(California)	2-Butoxyethanol	111-76-2	8-Hour TWA-PEL: 97 mg/m ³ (20 ppm)
	2,4-Pentanediol, 2-methyl-	107-41-5	Ceiling Limit: 125 mg/m ³ (25 ppm)
	Acetic Acid	64-19-7	Ceiling Limit: 40 ppm
	Acetic Acid	64-19-7	15-Minute STEL: 37 mg/m ³ (15 ppm)
	Acetic Acid	64-19-7	8-Hour TWA-PEL: 25 mg/m ³ (10 ppm)
WEEL	Octamethylcyclotetrasiloxane	556-67-2	8-Hour TWA: 10 ppm

Biological Limit Values:

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Country (Legal Basis)	Substance	Identifier	Determinant	Specimen	Sampling time	Permissible limits
ACGIH	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 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).

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. 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).

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. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate 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.

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SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Dark Purple
Odor	Grape
Odor threshold	Not determined or not available.
pH	5.0-7.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	>90 c
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	0.90-0.95
Relative density	Not determined or not available.
Solubilities	Water
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:

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

Avoid generation of aerosols and mists, 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

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Acute Toxicity

Assessment:

Harmful if swallowed.

Product Data: No data available.

Substance Data:

Name	Route	Result
2-Butoxyethanol	dermal	LD50 Rabbit: 1060 mg/kg
	Oral ATE	LD50 Rat: 1200 mg/kg (Annex VI to the CLP)
	oral	LD50 Rat: 470 mg/kg
	Inhalation ATE	LC50 Rat: 11 mg/L (4 hr [Vapor])
Octamethylcyclotetrasiloxane	oral	LD50 Rat: > 4800 mg/kg
	dermal	LD50 Rat: > 2375 mg/kg
	inhalation	LC50 Rat: 36 mg/L (4 hr [aerosol])
Distillates	inhalation	LC50 Rat: 1.72 mg/L (4 hr [aerosol])
	oral	LD50 Rat: > 5000 mg/m ³
	dermal	LD50 Rabbit: > 2000 mg/kg
Quaternary ammonium compounds, dicoco, alkyldimethyl	Oral ATE	LD50 Rat: 500 mg/L
2,4-Pentanediol, 2-methyl-	oral	LD50 Rat: 3700 mg/kg
	inhalation	LC50 Rat: > 20 mg/L (4 h [vapor])
	dermal	LD50 Ray: >2000 mg/kg
Acetic Acid	oral	LD50 rat: 3310 mg/kg
	inhalation	LC50 mouse: 5620 ppmV (1H)

Skin Corrosion/Irritation

Assessment:

Causes severe skin burns and eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
2-Butoxyethanol	Causes skin irritation.
Quaternary ammonium compounds, dicoco, alkyldimethyl	Causes severe skin burns.
Aminosiloxanes	Causes severe skin burns.
2,4-Pentanediol, 2-methyl-	Causes skin irritation.
Acetic Acid	Causes severe skin burns.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

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Name	Result
2-Butoxyethanol	Causes serious eye irritation.
Quaternary ammonium compounds, dicoco, alkyldimethyl	Causes serious eye damage.
Aminosiloxanes	Causes serious eye damage.
2,4-Pentanediol, 2-methyl-	Causes serious eye irritation.
Acetic Acid	Causes serious eye damage.

Respiratory or Skin Sensitization

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

Product Data:

No data available.

Substance Data: No data available.

Carcinogenicity

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

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Water	Not Applicable
Octamethylcyclotetrasiloxane	Not Applicable
Quaternary ammonium compounds, dicoco, alkyldimethyl	Not Applicable
2,4-Pentanediol, 2-methyl-	Not Applicable
2-Butoxyethanol	Group 3
Acetic Acid	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Water	Not Applicable
Octamethylcyclotetrasiloxane	Not Applicable
Quaternary ammonium compounds, dicoco, alkyldimethyl	Not Applicable
2,4-Pentanediol, 2-methyl-	Not Applicable
2-Butoxyethanol	Not Applicable
Acetic Acid	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: No data available.

Reproductive Toxicity

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

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Product Data:

No data available.

Substance Data:

Name	Result
Octamethylcyclotetrasiloxane	Suspected of damaging fertility.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause respiratory irritation.

Product Data:

No data available.

Substance Data: No data available.

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	May cause damage to spleen, liver, and bone marrow through prolonged or repeated exposure.

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways.

Product Data:

No data available.

Substance Data:

Name	Result
Distillates	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:

Name	Result
2-Butoxyethanol	Aquatic Invertebrates EC50 Daphnia magna: 1550 mg/L (48 hr [mobility])
	Fish LC50 Oncorhynchus mykiss: 1474 mg/L (96 hr)
	Aquatic Plants EC50 Freshwater algae: 1840 mg/L (72 hr [growth rate])

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Name	Result
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)
Distillates	Aquatic Invertebrates EC50 Daphnia magna: 2 mg/L (48 hr [read across])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 1.8 mg/L (72 hr [read across])
2,4-Pentanediol, 2-methyl-	Fish LC50 Pimephales promelas: 8690 mg/L (96 h [mortality])
	Aquatic Invertebrates EC50 Daphnia magna: 4310 mg/L (48 h [mortality])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: >429 mg/L (72 h [biomass, 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
2-Butoxyethanol	Fish LC50 Poecilia reticulata: 983 mg/L (7 d)
	Aquatic Invertebrates EC50 Daphnia magna: 297 mg/L (21 d [reproduction])
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)
Acetic Acid	Fish LC50 Freshwater fish: >300.82 mg/L (96 hr [calculated])
	Aquatic Invertebrates EC50 Daphnia magna: >300.82 mg/L (48 hr [calculated])
	Aquatic Plants EC50 Skeletonema costatum: >300.82 mg/L (72 hr [calculated])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
2-Butoxyethanol	Readily biodegradable (90.4% degradation after 28 days, measured by CO ₂ evolution).
Octamethylcyclotetrasiloxane	Under test conditions, little biodegradation observed (3.7% biodegradation [CO ₂ evolution] after 29 days).
Distillates	This substance is readily biodegradable in water (57.5% degradation after 28 days, O ₂ consumption).
2,4-Pentanediol, 2-methyl-	Readily biodegradable (81% degradation after 28 days, measured by Oxygen consumption).
Acetic Acid	Readily biodegradable in water.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
2-Butoxyethanol	Not expected to bioaccumulate (log Kow = 0.83).

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Name	Result
Octamethylcyclotetrasiloxane	Substance is expected to bioaccumulate (BCF: 12,400 L/kg).
Distillates	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.
2,4-Pentanediol, 2-methyl-	Accumulation in organisms is not to be expected (log Kow: 0.58).
Acetic Acid	Bioaccumulation is not expected. BCF (aquatic species): 3.16 dimensionless

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Octamethylcyclotetrasiloxane	Substance is hardly mobile (log Koc: 4.22); therefore, adsorption to soil is expected.
Distillates	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.
2,4-Pentanediol, 2-methyl-	This substance is expected to have a very high mobility (estimated Koc: 1).
Acetic Acid	The substance is highly mobile in soil with a very low potential for adsorption to soil and sediment. Koc at 20 °C: 1.153

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:

2-Butoxyethanol	The substance is not PBT.
Distillates	This substance is not PBT.
Octamethylcyclotetrasiloxane	Substance is PBT.
2,4-Pentanediol, 2-methyl-	The substance is not PBT.
Acetic Acid	The substance is not PBT.

vPvB assessment:

2-Butoxyethanol	The substance is not vPvB.
Distillates	This substance is not vPvB.
Octamethylcyclotetrasiloxane	Substance is vPvB.
2,4-Pentanediol, 2-methyl-	The substance is not vPvB.
Acetic Acid	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 properly characterize all waste materials according to applicable regulatory entities

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

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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	UN1993
UN Proper Shipping Name	Flammable Liquid, N.O.S. Isopropanol
UN Transport Hazard Class(es)	3 
Packing Group	III
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):

111-76-2	2-Butoxyethanol	Not Listed
7732-18-5	Water	Not Listed
61789-77-3	Quaternary ammonium compounds, dicoco, alkyldimethyl	Not Listed
556-67-2	Octamethylcyclotetrasiloxane	Listed
Proprietary	Distillates	Not Listed
107-41-5	2,4-Pentanediol, 2-methyl-	Not Listed
64-19-7	Acetic Acid	Not Listed

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

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SARA Section 313 Toxic Chemicals:

111-76-2	2-Butoxyethanol	Listed
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CERCLA:

111-76-2	2-Butoxyethanol	Listed	N/A
64-19-7	Acetic Acid	Listed	5000 lbs

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

107-41-5	2,4-Pentanediol, 2-methyl-	Listed
111-76-2	2-Butoxyethanol	Listed
64-19-7	Acetic Acid	Listed

New Jersey Right to Know:

107-41-5	2,4-Pentanediol, 2-methyl-	Listed
111-76-2	2-Butoxyethanol	Listed
64-19-7	Acetic Acid	Listed

New York Right to Know:

Proprietary	Distillates	Listed
107-41-5	2,4-Pentanediol, 2-methyl-	Listed
111-76-2	2-Butoxyethanol	Listed
64-19-7	Acetic Acid	Listed

Pennsylvania Right to Know:

107-41-5	2,4-Pentanediol, 2-methyl-	Listed
111-76-2	2-Butoxyethanol	Listed
64-19-7	Acetic Acid	Listed

California Proposition 65: None of the ingredients are listed.

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: 2-1-0-B

Initial Preparation Date: 01.01.2023

End of Safety Data Sheet