

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial Preparation Date: 05.20.2020

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Starr Sealer 2XC

SECTION 1: Identification

Product Identifier

Product Name: Starr Sealer 2XC

Product code: QW-3X10

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Commercial Vehicle Wash - Rinse Agent -
Clear Coat Sealant

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:

Serious eye damage, category 1

Flammable liquids, category 3

Specific target organ toxicity - single exposure, category 3, narcotic effects

Skin corrosion, category 1B

Aspiration hazard, category 1

Skin sensitization, category 1B

Acute toxicity (oral), category 4

Label elements

Hazard Pictograms:



Signal Word: Danger

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Hazard statements:

- H226 Flammable liquid and vapor
- H318 Causes serious eye damage
- H336 May cause drowsiness or dizziness
- H314 Causes severe skin burns and eye damage
- H304 May be fatal if swallowed and enters airways
- H317 May cause an allergic skin reaction
- H302 Harmful if swallowed

Precautionary Statements:

- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical, ventilating, lighting, mixing and handling equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- 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
- P264 Wash hands/skin thoroughly after contact with or handling.
- P272 Contaminated work clothing must not be allowed out of the workplace
- P270 Do not eat, drink or smoke when using this product
- 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.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P370+P378 In case of fire: Use water spray or foam to extinguish [water jet not recommended].
- 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
- P363 Wash contaminated clothing before reuse
- P321 Specific treatment (see first aid procedures on the product label in section 4 of this SDS)
- P331 Do NOT induce vomiting
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/911 and follow first aid procedures on this SDS.
- P302+P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P330 Rinse mouth
- P403+P235 Store in a well-ventilated place. Keep cool
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

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| Identification | Name | Weight % |
|----------------------------|---|----------|
| CAS Number: 64741-44-2 | Distillates (petroleum), straight-run middle | 20-40 |
| CAS Number: 61789-77-3 | Quaternary ammonium compounds, dicoco alkyl dimethyl, chlorides | 20-40 |
| CAS Number: 111-76-2 | 2-Butoxyethanol | 10-20 |
| CAS Number: 67-63-0 | Propan-2-ol | 5-10 |
| CAS Number: Proprietary | Amines, ethoxylated | 5-10 |
| CAS Number: Proprietary | Aminofunctional-siloxanes | 1-5 |
| CAS Number: Proprietary | Dimethylsiloxanes, terminated | 1-5 |

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.

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.

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.

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.

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:

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.

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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.

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.

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.

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.

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.

Product is flammable. Exposure to sources of ignition may cause physical injury.

Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness.

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.

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.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

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).

Delayed Symptoms and Effects:

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

Symptoms of pulmonary edema may be delayed.

Symptoms of exposure may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

Overexposure via inhalation requires urgent medical treatment.

Skin/eye burns require immediate treatment.

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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.

Dry chemical, CO₂, water spray 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.

Flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

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.

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

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.

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. 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.

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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.

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).

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers 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.

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).

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.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. 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). 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.

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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 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 [Table Z-1]) |
| | Propan-2-ol | 67-63-0 | 8-Hour TWA-PEL: 980 mg/m ³ (400 ppm) |
| | 2-Butoxyethanol | 111-76-2 | 8-Hour TWA: 120 mg/m ³ (25 ppm [Table Z-1-A]) |
| 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]) |
| | 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.) |
| ACGIH | 2-Butoxyethanol | 111-76-2 | 8-Hour TWA-PEL: 20 ppm |
| | Propan-2-ol | 67-63-0 | 15-Minute STEL: 400 ppm |
| | Propan-2-ol | 67-63-0 | 8-Hour TWA: 200 ppm |
| United States(California) | 2-Butoxyethanol | 111-76-2 | 8-Hour TWA-PEL: 97 mg/m ³ (20 ppm) |
| | Propan-2-ol | 67-63-0 | 8-Hour TWA-PEL: 980 mg/m ³ (400 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) |

Biological Limit Values:

| 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 |

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| Country (Legal Basis) | Substance | Identifier | Determinant | Specimen | Sampling time | Permissible limits |
|-----------------------|-------------|------------|-------------|----------|---------------|--------------------|
| | Propan-2-ol | 67-63-0 | Acetone | Urine | EOS/EOW | 40 mg/L |

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:

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).

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

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.

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).

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.

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.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks,

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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 | Red |
| Odor | Petroleum-like / Fruity |
| Odor threshold | Not determined or not available. |
| pH | 4.0-6.0 |
| Melting point/freezing point | Not determined or not available. |
| Initial boiling point/range | Not determined or not available. |
| Flash point (closed cup) | 23c - 60c |
| 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 | 0.86-0.89 |
| 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.

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

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

Incompatible Materials:

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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:

Harmful if swallowed.

Product Data: No data available.

Substance Data:

| Name | Route | Result |
|--|------------|--|
| 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 |
| Distillates (petroleum), straight-run middle | inhalation | LC50 Rat: 1.72 mg/L (4 hr [aerosol]) |
| | oral | LD50 Rat: > 5000 mg/m ³ |
| | dermal | LD50 Rabbit: > 2000 mg/kg |
| 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) |
| Amines, ethoxylated | oral | LD50 Rat: 500 mg/kg |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | Oral ATE | LD50 Rat: 500 mg/L |

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, chlorides | Causes severe skin burns. |
| Aminofunctional-siloxanes | Causes severe skin burns. |
| Amines, ethoxylated | Causes severe skin burns and eye damage. |

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. |
| Propan-2-ol | Causes serious eye irritation. |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | Causes serious eye damage. |
| Aminofunctional-siloxanes | Causes serious eye damage. |
| Amines, ethoxylated | 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:

| Name | Result |
|-------------------------------|--------------------------------------|
| Dimethylsiloxanes, terminated | 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: No data available.

International Agency for Research on Cancer (IARC):

| Name | Classification |
|--|----------------|
| 2-Butoxyethanol | Group 3 |
| Propan-2-ol | Group 3 |
| Dimethylsiloxanes, terminated | Not Applicable |
| Amines, ethoxylated | Not Applicable |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | Not Applicable |

National Toxicology Program (NTP):

| Name | Classification |
|--|----------------|
| Propan-2-ol | Not Applicable |
| Dimethylsiloxanes, terminated | Not Applicable |
| Amines, ethoxylated | Not Applicable |
| 2-Butoxyethanol | Not Applicable |
| Quaternary ammonium compounds, dicoco alkyldimethyl, chlorides | 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.

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Reproductive Toxicity

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

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause drowsiness or dizziness.

Product Data:

No data available.

Substance Data:

| Name | Result |
|-------------|------------------------------------|
| 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. |

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways.

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:

| Name | Result |
|-----------------|--|
| 2-Butoxyethanol | Aquatic Invertebrates EC50 Daphnia magna: 1,550 mg/L (48 hr) |
| | Fish LC50 Oncorhynchus mykiss: 1,474 mg/L (96 hr) |

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| Name | Result |
|--|---|
| Distillates (petroleum), straight-run middle | 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]) |

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 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 |
|--|---|
| 2-Butoxyethanol | Readily biodegradable (90.4% degradation after 28 days). |
| Distillates (petroleum), straight-run middle | This substance is readily biodegradable in water (57.5% degradation after 28 days, O ₂ consumption). |
| Propan-2-ol | Readily biodegradable in water. |

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

| Name | Result |
|--|---|
| Propan-2-ol | Not expected to bioaccumulate (log Kow: 0.05). |
| 2-Butoxyethanol | Not expected to bioaccumulate (log Kow = 0.83). |
| Distillates (petroleum), straight-run middle | Standard bioaccumulation studies are not applicable to petroleum UVCB substances. |

Mobility in Soil

Product Data: No data available.

Substance Data:

| Name | Result |
|--|---|
| Distillates (petroleum), straight-run middle | Standard adsorption/desorption studies are not applicable to petroleum UVCB substances. |

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 | This substance is not PBT. |
| Distillates (petroleum), straight-run middle | This substance is not PBT. |
| Propan-2-ol | This substance is not PBT. |

vPvB assessment:

| | |
|-----------------|-----------------------------|
| 2-Butoxyethanol | This substance is not vPvB. |
|-----------------|-----------------------------|

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| | |
|--|-----------------------------|
| Distillates (petroleum), straight-run middle | This substance is not vPvB. |
| Propan-2-ol | 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 | UN1993 |
| UN Proper Shipping Name | Flammable Liquids, 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.

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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: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

| | | |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 67-63-0 | Propan-2-ol | Listed |

CERCLA:

| | | | |
|----------|-----------------|--------|-----|
| 111-76-2 | 2-Butoxyethanol | Listed | N/A |
|----------|-----------------|--------|-----|

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:

| | | |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 67-63-0 | Propan-2-ol | Listed |

New Jersey Right to Know:

| | | |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 67-63-0 | Propan-2-ol | Listed |

New York Right to Know:

| | | |
|------------|--|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 64741-44-2 | Distillates (petroleum), straight-run middle | Listed |
| 67-63-0 | Propan-2-ol | Listed |

Pennsylvania Right to Know:

| | | |
|----------|-----------------|--------|
| 111-76-2 | 2-Butoxyethanol | Listed |
| 67-63-0 | Propan-2-ol | 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: 2-2-0-B

Initial Preparation Date: 05.20.2020

Revision date: 01.03.2022

End of Safety Data Sheet