

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.07.2021

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Marvel 2XC

SECTION 1: Identification

Product identifier

Product name: Marvel 2XC

Product code: QW-00662X

Recommended use of the product and restriction on use

Relevant identified uses: Commercial Vehicle Pre-Soak / Alkaline Cleaner

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 1A

Serious eye damage, category 1

Specific target organ toxicity - repeated exposure, category 2

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H373 May cause damage to organs (state all organs affected, if known) through prolonged or repeated

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exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

H302 Harmful if swallowed

Precautionary statements:

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

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

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

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

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/911/PHYSICIAN IF: swallowed, eye contact, skin burns/rash or breathing difficulties.

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

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

P314 Get medical advice/attention if you feel unwell

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

P330 Rinse mouth

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

Identification	Name	Weight %
CAS number: 64-02-8	Tetrasodium ethylenediamine tetraacetate	10-20
CAS number: Proprietary	Cationic surfactant	5-10
CAS number: Proprietary	Alcohols, branched and linear, ethoxylated	5-10
CAS number: Proprietary	Surfactant	5-10
CAS number: 1310-73-2	Sodium hydroxide	5-10
CAS number: 1310-58-3	Potassium hydroxide	5-10
CAS number: Proprietary	Surfactant	1-5
CAS number: 5064-31-3	Trisodium nitrilotriacetate	0.1-1

Additional Information: None

SECTION 4: First aid measures

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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:

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.

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. 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.

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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).

May cause damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of exposure may be delayed.

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.

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.

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).

Harmful if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate

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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). 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.

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

Conditions for safe storage, including any incompatibilities:

Store in cool, 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. 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
ACGIH	Sodium hydroxide	1310-73-2	Ceiling Limit: 2 mg/m ³
	Potassium hydroxide	1310-58-3	TWA: 2 mg/m ³
OSHA	Sodium hydroxide	1310-73-2	8-Hour TWA-PEL: 2 mg/m ³
NIOSH	Sodium hydroxide	1310-73-2	Ceiling Limit: 2 mg/m ³ (REL)
	Sodium hydroxide	1310-73-2	IDLH: 10 mg/m ³
	Potassium hydroxide	1310-58-3	REL: 2 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States(California)	Sodium hydroxide	1310-73-2	Ceiling Limit: 2 mg/m ³

Biological limit values:

No biological exposure limits noted for the ingredient(s).

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).

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.

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	Blue
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Odor	Detergent like
Odor threshold	Not determined or not available.
pH	>13.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	None
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	1.18-1.23
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.

Other information

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:

Harmful if swallowed.

Product data: No data available.

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Substance data:

Name	Route	Result
Tetrasodium ethylenediamine tetraacetate	oral	LD50 mouse: 1210 mg/kg
Trisodium nitrilotriacetate	oral	LD50 rat: 1100 mg/kg
Surfactant	oral	LD50 Rat: >2000 mg/kg
		LD50 Rat: > 2000 mg/kg
	dermal	LD50 Rat: 5000 mg/kg
Cationic surfactant	oral	LD50 Rat: 580 mg/kg
Alcohols, branched and linear, ethoxylated	oral	LD50 Rat: 1378 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
Potassium hydroxide	oral	LD50 Rat: 273 mg/kg

Skin corrosion/irritation

Assessment:

Causes severe skin burns and eye damage.

Product data:

No data available.

Substance data:

Name	Result
Sodium hydroxide	Causes severe skin burns.
Surfactant	Causes skin irritation.
Cationic surfactant	Causes skin irritation.
Potassium hydroxide	Causes severe skin burns.

Serious eye damage/irritation

Assessment:

Causes serious eye damage.

Product data:

No data available.

Substance data:

Name	Result
Sodium hydroxide	Causes serious eye damage.
Tetrasodium ethylenediamine tetraacetate	Causes serious eye damage.
Trisodium nitrilotriacetate	Causes serious eye irritation.
Surfactant	Causes serious eye damage.
	Causes serious eye damage.
Cationic surfactant	Causes serious eye damage.
Alcohols, branched and linear, ethoxylated	Causes serious eye damage.
Potassium hydroxide	Causes serious eye damage.

Respiratory or skin sensitization

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

Product data:

No data available.

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Substance data:

Name	Result
Surfactant	Does not cause skin sensitization.

Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Trisodium nitrilotriacetate		There is sufficient evidence of carcinogenicity in experimental animals. Possibly carcinogenic to humans.

International Agency for Research on Cancer (IARC):

Name	Classification
Sodium hydroxide	Not Applicable
Tetrasodium ethylenediamine tetraacetate	Not Applicable
Trisodium nitrilotriacetate	Group 2B
Surfactant	Not Applicable
Cationic surfactant	Not Applicable
Alcohols, branched and linear, ethoxylated	Not Applicable
Potassium hydroxide	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Sodium hydroxide	Not Applicable
Tetrasodium ethylenediamine tetraacetate	Not Applicable
Trisodium nitrilotriacetate	Not Applicable
Surfactant	Not Applicable
Cationic surfactant	Not Applicable
Alcohols, branched and linear, ethoxylated	Not Applicable
Potassium hydroxide	Not Applicable

OSHA Carcinogens: Not applicable

Germ cell mutagenicity

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

Product data:

No data available.

Substance data:

Name	Result
Surfactant	Ames test result: Negative.

Reproductive toxicity

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

Product data:

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No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

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 (repeated exposure)

Assessment:

May cause damage to organs through prolonged or repeated exposure.

Product data:

No data available.

Substance data:

Name	Result
Tetrasodium ethylenediamine tetraacetate	Animal studies indicate that chronic exposure can cause damage to organs. Causes changes in tubules (including acute renal failure and necrosis) in intraperitoneal lethal-dose studies of mice; [RTECS]

Aspiration toxicity

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

Product data:

No data available.

Substance data: No data available.

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
Trisodium nitrilotriacetate	LC50 Pimephales promelas: 103 mg/L (96 hours)
Surfactant	LC50 Oncorhynchus mykiss: 4.2 mg/L (96 hours)
	EC50 Daphnia magna: 1.71 mg/L (48 hours)
	LC50 Oncorhynchus mykiss (rainbow trout): > 100 mg/L (96 hr)
	EC50 Daphnia magna (Water flea): > 100 mg/L (48 hr)
	EC50 Scenedesmus quadricauda (Green algae): > 100 mg/L (72 hr)
Alcohols, branched and linear, ethoxylated	LC50 Oncorhynchus mykiss: 5 mg/L (96 hr)
	EC50 Daphnia magna: 2.5 mg/L (48 hr)
	ErC50 Selenastrum capricornutum: 1.4 mg/L (96 hr)

Chronic (long-term) 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
Trisodium nitrilotriacetate	NOEC Pimephales promelas: >54 mg/L (32 weeks)
Surfactant	NOEC Daphnia magna: 1.5 mg/L (21 days)
	NOEC algae: > 100 mg/L (72 hr)
	NOEC Daphnia: > 1 - 10 mg/L (21 days)

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Sodium hydroxide	A biodegradation study does not need to be conducted as the substance is inorganic.
Tetrasodium ethylenediamine tetraacetate	Biodegradable, but not readily biodegradable (54.9% degradation after 20 days).
Trisodium nitrilotriacetate	NTA is readily biodegradable in soil under aerobic, anaerobic and waterlogged conditions.
Surfactant	After the 28-day incubation period the substance was biodegraded almost completely (98%). The 10-day window criterion was met. Based on these findings, the substance is classified as readily biodegradable.
Alcohols, branched and linear, ethoxylated	Readily biodegradable (72% degradation after 28 days).
Surfactant	Readily biodegradable (Method: OECD Test Guideline 301D).
Potassium hydroxide	The study on degradability does not need to be conducted as the substance is inorganic.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Sodium hydroxide	The substance has a low potential for bioaccumulation.
Tetrasodium ethylenediamine tetraacetate	The projected equilibrium BCF values were similar to those observed in the plateau test and, again, serve to emphasize the extremely low bioconcentration potential of EDTA.
Trisodium nitrilotriacetate	Not expected to bioaccumulate (log Kow = -10.08).
Surfactant	Log POW : -2.12; low potential for bioaccumulation.
Alcohols, branched and linear, ethoxylated	Not expected to bioaccumulate (BCF: 237 L/kg).
Surfactant	No bioaccumulation is to be expected (log Pow <= 4).
Potassium hydroxide	Not expected to bioaccumulate, as it completely dissociates in water.

Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Sodium hydroxide	The substance has a high water solubility. As the dilution of the substance increases, its speed of movement through soil increases. During movement through soil, some ion exchange will occur.

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Name	Result
Tetrasodium ethylenediamine tetraacetate	The extent of absorption of EDTA on container walls and humic acid, silica, kaolin, river sediment and humus solids was measured and was found to be negligible.
Trisodium nitrilotriacetate	Trisodium nitrilotriacetate (Na ₃ N ₃ T ₃ A) is a highly water-soluble organic substance.
Alcohols, branched and linear, ethoxylated	Moderately mobile (log K _{oc} : 1.575 - 2.365).
Surfactant	Stays dissolved in water. Potential for mobility in soil is high.
Potassium hydroxide	Low potential for adsorption. If emitted to surface water, sorption to sediment will be negligible.

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:

Sodium hydroxide	A PBT assessment is not required, as the substance is inorganic.
Tetrasodium ethylenediamine tetraacetate	This substance is not PBT.
Trisodium nitrilotriacetate	This substance is not PBT.
Surfactant	Substance is not PBT.
Alcohols, branched and linear, ethoxylated	The substance is not PBT.
Potassium hydroxide	The substance is not PBT.

vPvB assessment:

Sodium hydroxide	A vPvB assessment is not required as the substance is inorganic.
Tetrasodium ethylenediamine tetraacetate	This substance is not vPvB.
Trisodium nitrilotriacetate	This substance is not vPvB.
Surfactant	Substance is not vPvB.
Alcohols, branched and linear, ethoxylated	The substance is not vPvB.
Potassium hydroxide	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

United States Transportation of dangerous goods (49 CFR DOT)

UN number	1760
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UN proper shipping name	Corrosive liquids, N.O.S. (Sodium Hydroxide, Potassium Hydroxide)
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	1760
UN proper shipping name	Corrosive liquids, N.O.S. (Sodium Hydroxide, Potassium Hydroxide)
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	None
Special precautions for user	None

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

UN number	1760
UN proper shipping name	Corrosive liquids, N.O.S. (Sodium Hydroxide, Potassium Hydroxide)
UN transport hazard class(es)	8 
Packing group	II
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

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

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

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

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals: None of the ingredients are listed.

CERCLA:

1310-73-2	Sodium hydroxide	Listed	1000 lbs
1310-58-3	Potassium hydroxide	Listed	1000 lb

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:

1310-73-2	Sodium hydroxide	Listed	
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5064-31-3	Trisodium nitrilotriacetate	Listed
1310-58-3	Potassium hydroxide	Listed

New Jersey Right to Know:

1310-73-2	Sodium hydroxide	Listed
1310-58-3	Potassium hydroxide	Listed

New York Right to Know:

1310-73-2	Sodium hydroxide	Listed
1310-58-3	Potassium hydroxide	Listed

Pennsylvania Right to Know:

1310-73-2	Sodium hydroxide	Listed
1310-58-3	Potassium hydroxide	Listed

California Proposition 65: None of the ingredients are listed.

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: 3-0-0-X

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End of Safety Data Sheet