SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation 29 CFR 1910.1200

Tetrasodium EDTA Liquid

Version 2 Revision Date 02/11/2021 Print Date 03/01/2021 US / Z8

1. IDENTIFICATION

Product name : Tetrasodium EDTA Liquid

Product Use Description : Specific use(s): Chelating agent

Company : Level 7 Chemical
253 Sturgis Rd
Conway, AR 72034

Telephone : 1-855-927-1777

Emergency telephone : CANUTEC: +1 613-996-6666 CHEMTREC: +1 800-424-9300-:

CHEMTREC (24-hr): (800) 424-9300 (Toll-free in the U.S., Canada and the U.S. Virgin Islands)
CHEMTREC (24-hr): (703) 527-3887 (For calls originating elsewhere / collect calls are accepted)

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	light yellow
Odor	Slightly ammonia like

GHS Classification

Corrosive to Metals, Category 1
Acute toxicity, Category 4, Inhalation
Eye irritation, Category 2A
Specific target organ toxicity - repeated exposure, Category 2, Inhalation, Respiratory Tract

GHS label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : H290 May be corrosive to metals.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
P234 Keep only in original container.
P260 Do not breathe mist, vapors or spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.
Response:
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
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.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P390 Absorb spillage to prevent material damage.
Storage:
P406 Store in corrosive resistant container with a resistant inner liner.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Carcinogenicity:

IARC : Group 2B: Possibly carcinogenic to humans
Nitrilotriacetic acid, trisodium salt 5064-31-3
Group 2B: Possibly carcinogenic to humans

OSHA : No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name : Ethylenediaminetetraacetic acid, tetrasodium salt; Aqueous solution

Pure substance/mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration [% W/W]
Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2A; H319 STOT RE 2; H373	>= 30 - < 50
Sodium hydroxide	1310-73-2	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 Aquatic Acute 3; H402	>= 0.5 - < 1.9
Nitrilotriacetic acid, trisodium salt	5064-31-3	Acute Tox. 4; H302 Eye Irrit. 2A; H319 Carc. 2; H351	>= 0.1 - < 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.

Inhalation : If breathed in, move person into fresh air.
Consult a physician after significant exposure.

Skin contact : Take off contaminated clothing and shoes immediately.
Rinse immediately with plenty of water.

Eye contact : Rinse with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
Obtain medical attention.

Ingestion : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.

Obtain medical attention.

Notes to physician

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Risks : Causes serious eye irritation.
Harmful if inhaled.
May cause damage to organs through prolonged or repeated exposure if inhaled.

Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting / Specific hazards arising from the chemical : Water spray may be ineffective unless used by experienced firefighters.
Do not allow run-off from fire fighting to enter drains or water courses.

Combustion products : Nitrogen oxides (NOx)

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Wear respiratory protection.
Ensure adequate ventilation.

Emergency measures on accidental release : Evacuate personnel to safe areas.
Only qualified personnel equipped with suitable protective equipment may intervene.
Prevent unauthorized persons entering the zone.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up / Methods for containment	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
Reference to other sections	:	For disposal considerations see section 13. For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	:	For personal protection see section 8. Avoid formation of aerosol. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers	:	Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place. Store in closed dark containers made of anti-corrosive material. Keep only in original container.
Other data	:	No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sodium hydroxide	1310-73-2	<** Phrase language not available: [Z8] CUST - TD1I:P4VH:7 R6 **>	2 mg/m3	ACGIH
		C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1

		C	2 mg/m3	OSHA P0
		C	2 mg/m3	CAL PEL

Engineering measures : Effective exhaust ventilation system
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : light yellow

Odor : Slightly ammonia like

Odor Threshold : not determined

pH : 11 - 12
Concentration: 1 %
1% (water)

Melting point : Not applicable

Boiling point/boiling range : 221 - 230 °F / 105 - 110 °C

Flash point : not (in)flammable Product is not flammable (aqueous)

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids)	:	Not classified as a flammability hazard
Self-ignition	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	similar to water
Relative vapor density	:	similar to water
Relative density	:	1.15 - 1.38
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: < 0
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	ca. 19 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	:	13.80 - 16.50 mm2/s (68 °F / 20 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidizing.
Metal corrosion rate	:	Corrosive to metals

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid	:	None known.
Materials to avoid	:	Copper Aluminum Zinc Copper alloys Nickel

Hazardous decomposition products	:	Carbon oxides nitrogen oxides (NOx)
Thermal decomposition	:	No data available
Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Hazardous reactions	:	No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Hazard Summary

Acute toxicity	:	Harmful if inhaled.
Skin corrosion/irritation	:	Not classified based on available information.
Serious eye damage/eye irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	Respiratory sensitization: Not classified based on available information. Skin sensitization: Not classified based on available information.
Germ cell mutagenicity	:	Not classified based on available information.
Carcinogenicity	:	Not classified based on available information.
Reproductive toxicity	:	Not classified based on available information.
STOT-single exposure	:	Not classified based on available information.
STOT-repeated exposure	:	May cause damage to organs through prolonged or repeated exposure if inhaled.
Aspiration hazard	:	Not classified based on available information.

Potential Health Effects

Inhalation	:	Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Harmful if inhaled.
Skin	:	May cause skin irritation.
Eyes	:	Causes serious eye irritation.
Ingestion	:	May be harmful if swallowed.

Aggravated Medical Condition	:	None known.
Symptoms of Overexposure	:	The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

Toxicology Assessment

Further information	:	No further data available.

Test result

Acute oral toxicity	:	Acute toxicity estimate: 4,506 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate : 3.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Skin irritation	:	Result: No skin irritation Method: OECD Test Guideline 439
Eye irritation	:	Result: Eye irritation
Target Organ Systemic Toxicant - Repeated exposure	:	Routes of exposure: Inhalation Target Organs: Respiratory Tract The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Carcinogenicity:

IARC	:	Group 2B: Possibly carcinogenic to humans Nitrilotriacetic acid, trisodium salt 5064-31-3 Group 2B: Possibly carcinogenic to humans
OSHA	:	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

TOXICOLOGY DATA FOR THE INGREDIENTS:

Toxicology Assessment

Component: Sodium hydroxide

CMR effects	:	Mutagenicity: In vivo tests did not show mutagenic effects, Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Component: Nitrilotriacetic acid, trisodium salt

CMR effects : Carcinogenicity: Limited evidence of a carcinogenic effect.

Test result

Component: Ethylenediaminetetraacetic acid, tetrasodium salt

Acute oral toxicity : LD50: 1,780 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 1 - 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 412
Read-across (Analogy)

Skin irritation : Species: Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
Read-across (Analogy)

Eye irritation : Species: Rabbit
Result: Eye irritation
Method: OECD Test Guideline 405

Sensitization : Maximization Test
Species: Guinea pig
Result: Does not cause skin sensitization.
Method: OECD Test Guideline 406
Read-across (Analogy)

Germ cell mutagenicity

Genotoxicity in vitro : Result: negative
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Read-across (Analogy)

Genotoxicity in vivo : Chromosome aberration test in vivo
Species: Mouse
Method: OECD Test Guideline 474
Result: negative
Read-across (Analogy)

Carcinogenicity : Species: Rat
Application Route: Ingestion
Result: Not classified due to data which are conclusive although insufficient for classification.

Read-across (Analogy)

Reproductive toxicity	:	Species: Rat NOAEL: F1: > 250 mg/kg, Read-across (Analogy), Information taken from reference works and the literature.
Target Organ Systemic Toxicant - Single exposure	:	Based on available data, the classification criteria are not met.
Target Organ Systemic Toxicant - Repeated exposure	:	Routes of exposure: Inhalation Target Organs: Respiratory Tract The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Aspiration toxicity	:	Not classified due to data which are conclusive although insufficient for classification.

Component: Sodium hydroxide

Skin irritation	:	Result: Causes severe burns.
Eye irritation	:	Result: Risk of serious damage to eyes.
Sensitization	:	Result: Does not cause skin sensitization.

Germ cell mutagenicity

Genotoxicity in vitro	:	In vitro tests did not show mutagenic effects

Component: Nitrilotriacetic acid, trisodium salt

Acute oral toxicity	:	LD50: 1,740 mg/kg Species: Rat Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Information taken from reference works and the literature.
Skin irritation	:	Species: Rabbit Result: No skin irritation
Eye irritation	:	Result: Irritating to eyes.
Sensitization	:	Buehler Test Species: Guinea pig Result: Does not cause skin sensitization. Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro	:	Chromosome aberration test in vitro Result: negative Method: OECD Test Guideline 473 Information taken from reference works and the literature.
Genotoxicity in vivo	:	Chromosome aberration test in vivo Species: Mouse Result: negative Information taken from reference works and the literature.
Reproductive toxicity	:	Species: Rat NOAEL: > 450 mg/kg, Method: OECD Test Guideline 416 Information taken from reference works and the literature.
Target Organ Systemic Toxicant - Single exposure	:	Not classified due to data which are conclusive although insufficient for classification.
Target Organ Systemic Toxicant - Repeated exposure	:	Not classified due to data which are conclusive although insufficient for classification.
Aspiration toxicity	:	Not classified due to data which are conclusive although insufficient for classification.

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological information	:	None known.

Test result

Elimination information (persistence and degradability)

Bioaccumulation	:	Not expected considering the low log Pow value.
Mobility	:	Adsorption to the solid soil particles is not expected.
Biodegradability	:	Not readily biodegradable, but will degrade after a longer period.

Further information on ecology

Biochemical Oxygen Demand (BOD)	:	No data available

Hazardous to the ozone layer

Regulation	:	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks	:	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

COMPONENTS:

Ecotoxicology Assessment

Component: Sodium hydroxide

Long-term (chronic) aquatic hazard	:	This product has no known ecotoxicological effects.

Test result

Component: Ethylenediaminetetraacetic acid, tetrasodium salt

Ecotoxicity effects

Toxicity to fish	:	LC50: > 100 mg/l Exposure time: 96 h Species: Fish
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 140 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: DIN 38412 Read-across (Analogy)
Toxicity to algae	:	EC50: > 100 mg/l Exposure time: 72 h Species: algae
Toxicity to fish (Chronic toxicity)	:	NOEC: > 25.7 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Test Type: flow-through test Method: OECD Test Guideline 210 Read-across (Analogy)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: > 25 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Read-across (Analogy)

Elimination information (persistence and degradability)

Bioaccumulation	:	Not expected considering the low log Pow value.
Mobility	:	Adsorption to the solid soil particles is not expected.

Biodegradability	:	Not readily biodegradable, but will degrade after a longer period.

Further information on ecology

Biochemical Oxygen Demand (BOD)	:	No data available

Component: Sodium hydroxide

Ecotoxicity effects

Toxicity to daphnia and other aquatic invertebrates	:	EC50: 40.4 mg/l Exposure time: 48 h Species: Ceriodaphnia (water flea) Test Type: Immobilization

Elimination information (persistence and degradability)

Bioaccumulation	:	Does not bioaccumulate.
Mobility	:	Can be leached out from soil.
Distribution among environmental compartments	:	Remarks: Transport to air is not expected.
Biodegradability	:	Result: Not applicable inorganic

Further information on ecology

Biochemical Oxygen Demand (BOD)	:	Not applicable

Component: Nitrilotriacetic acid, trisodium salt

Ecotoxicity effects

Toxicity to fish	:	LC50: > 100 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates	:	EC50: > 100 mg/l Exposure time: 96 h Species: Gammarus fasciatus (freshwater shrimp)
Toxicity to algae	:	EC50: > 100 mg/l Exposure time: 72 h Species: Desmodesmus subspicatus (green algae) Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOEC: > 54 mg/l Exposure time: 30 d

Species: Pimephales promelas (fathead minnow)
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 9.3 mg/l Exposure time: 147 d Species: Gammarus fasciatus (freshwater shrimp)

Elimination information (persistence and degradability)

Bioaccumulation	:	Bioaccumulation is unlikely.
Mobility	:	Adsorption to the solid soil particles is not expected.
Biodegradability	:	Result: Readily biodegradable.

Further information on ecology

Biochemical Oxygen Demand (BOD)	:	No data available

13. DISPOSAL CONSIDERATIONS

Product	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Hazardous waste Dispose of contents/container in accordance with local regulation.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	:	UN 3267
Proper shipping name	:	Corrosive liquid, basic, organic, n.o.s. (Ethylenediaminetetraacetic acid, tetrasodium salt)
Class	:	8
Packing group	:	III
Labels	:	8
Packing instruction (cargo aircraft)	:	856
Packing instruction (passenger aircraft)	:	852
Packing instruction (LQ)	:	Y841
Environmentally hazardous	:	no

IMDG-Code

UN number	:	UN 3267
Proper shipping name	:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Ethylenediaminetetraacetic acid, tetrasodium salt)
Class	:	8
Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR
Not regulated as a dangerous good

15. REGULATORY INFORMATION

Notification status

DSL	:	YES. All components of this product are on the Canadian DSL
AICS	:	YES. On the inventory, or in compliance with the inventory
NZIoC	:	NO. Not in compliance with the inventory
ENCS	:	YES. On the inventory, or in compliance with the inventory
ISHL	:	YES. On the inventory, or in compliance with the inventory
KECI	:	YES. On the inventory, or in compliance with the inventory
PICCS	:	YES. On the inventory, or in compliance with the inventory
IECSC	:	YES. On the inventory, or in compliance with the inventory
TCSI	:	YES. On the inventory, or in compliance with the inventory
TSCA	:	YES. All substances listed as active on the TSCA inventory

For explanation of abbreviations, see section 16.

TSCA list

TSCA 5(a)(2)	:	No substances are subject to a Significant New Use Rule.
TSCA 12(b)	:	No substances are subject to TSCA 12(b) export notification requirements.

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
Sodium hydroxide	1310-73-2	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Corrosive to Metals
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).
This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Sodium hydroxide	1310-73-2	>= 1 - < 5 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Sodium hydroxide	1310-73-2	>= 1 - < 5 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Sodium hydroxide	1310-73-2
Nitrilotriacetic acid, trisodium salt	5064-31-3

Pennsylvania Right To Know

Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8
Sodium hydroxide	1310-73-2

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

New Jersey Right To Know

Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8
Sodium hydroxide	1310-73-2

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of H-Statements

H290	:	May be corrosive to metals.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.

H351	:	Suspected of causing cancer.
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.
H402	:	Harmful to aquatic life.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CAL PEL	:	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

ACGIH / C	:	Ceiling limit
ACGIH / CEIL	:	Threshold Limit Value - Ceiling (TLV-C)
CAL PEL / C	:	Ceiling
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average

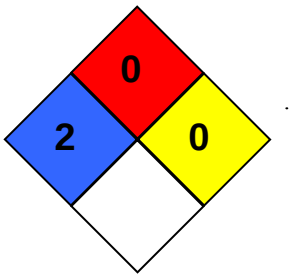
AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of

Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

HMIS Classification : Health Hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical hazards: 0

NFPA Classification : Health Hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0



Notification status explanation

REACH	1907/2006 (EU)
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)
TCSI	Taiwan Chemical Substance Inventory (TCSI)
TSCA	United States TSCA Inventory

Further information

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