SAFETY DATA SHEET

DeLaval XY13

Preparation Date: 22-Jan-2018
Revision Number: *0.3*
Revision Date: *13-Sep-2024*
Date of Next Revision: *12-Sep-2029*

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name	DeLaval XY13
Item#:	NZ0011
Recommended use	
Uses advised against	Restricted to professional users
Supplier	DeLaval Ltd, 82 Greenwood street, Hamilton New Zealand
Telephone Number	(07) 849-6020 (8am - 4:30pm Mon-Fri)
Emergency Telephone Number	0800 764 766 (National Poison Centre) 0800 243 622 CHEMCALL

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture according to GHS

Skin corrosion/irritation - Category 1C
Serious eye damage/eye irritation - Category 1
Chronic aquatic toxicity - Category 2

2.2. Label Elements

Hazard Pictogram(s)

Signal word DANGER

Hazard Statements
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements
P102 - Keep out of reach of children
P103 - Read label before use
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash hands and face thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P310 - Immediately call a POISON CENTER/doctor.
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 or shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents/container in accordance with local regulations

Contains sodium hypochlorite

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium hypochlorite	7681-52-9	10 - 20%

4. FIRST AID MEASURES

Workplace Facilities Eyewash bottle with clean water

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Call a physician immediately.

Skin contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air
If not breathing, give artificial respiration
If breathing is difficult, give oxygen
Get medical attention immediately

Ingestion Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to Physician Consider oral administration of sodium thiosulphate solutions if sodium hypochlorite is ingested. Do not administer neutralizing substances since the resultant exothermic reaction could further damage tissue. Endotracheal intubation could be needed if glottic edema compromises the airway. For individuals with significant inhalation exposure, monitor arterial blood gases and chest x-ray.

5. FIRE-FIGHTING MEASURES

Hazchem Code 2X

Flammable Properties No information available.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific hazards arising from the chemical Keep product and empty container away from heat and sources of ignition.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Avoid release to the environment.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling Wash hands after handling. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from possible contact with incompatible substances.

Type of Container/Package Store in original container

Handle and store according to AS/NZS Standards and the Responsible Care Management Systems: Managers Handbook.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Use only with adequate ventilation to keep exposures below recommended exposure limits. Use with ventilation, local exhaust ventilation or breathing protection.

Personal Protective Equipment

Eye/face Protection If splashes are likely to occur, wear:. Tightly fitting safety goggles. Face-shield. Eye wash bottle with pure water.

Skin Protection impervious clothing, Impervious gloves

Hand Protection Impervious gloves

Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If the exposure limit is exceeded and engineering

controls are not feasible, a
full face piece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure are not known, use a full-face piece positive-pressure, air-supplied respirator.

General Hygiene Considerations
Keep away from food, drink, and animal feeding stuffs. When using, do not eat, drink, or smoke. Contaminated work clothing should not be allowed out of the work place. Avoid contact with skin, eyes, and clothing. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	pale Yellow
Physical state	Liquid
Odor	Chlorine
pH	9 - 10
Vapor Pressure	17.5 @ 20 °C
Vapor Density	No data available
Flash Point	95 °C
Autoignition Temperature	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Boiling Point/Range	40 °C
Freezing Point/Range	No data available
Water Solubility	Soluble in water
Solubility	No information available
Solubility in other solvents	No data available
Specific Gravity	1.22
Kinematic viscosity	

10. STABILITY AND REACTIVITY

Chemical Stability	Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates. decomposition. Sodium hypochlorite becomes less toxic with age.
Conditions to Avoid	Protect from light. Heat. Incompatible Materials.
Incompatible Materials	Ammonia (chloramine gas may evolve), amines, ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, oxidizable metals, acids, soaps, and bisulphate's
Hazardous decomposition products	None under normal use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inhalation No information available.
Eye contact No information available.
Skin contact No information available.
Ingestion No information available.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite	8910 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 10,5 mg/L (1h) vapor

Irritation No information available
Corrosivity Causes severe skin burns and eye damage.
Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity The substance is classifiable by IARC as Group 3: "Unclassifiable as to carcinogenicity in humans" There is no evidence at present that it causes cancer in humans.

Chemical name	Sodium hypochlorite
IARC	Group 3

Reproductive Effects No information available.
Developmental Effects No information available.
STOT - single exposure No information available
STOT - repeated exposure No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects Toxic to aquatic life with long lasting effects
Prevent release to the environment.
Do not contaminate surface water

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hypochlorite	ErC50 = 0.0365 mg availablechlorine/L (ic) EbC50 = 0.0183 mg availablechlorine/L (ic) Pseudokirchneriellasubcapitata (72H)	LC50(96 hours) =0.032 mg TRO/L (mm) (Oncorhynchuskisutch)	EC50 = 77.1 mg availablechlorine/L (nc) Activated sludge (3H)	EC50(48 hours) =0.035 active Cl/L (nc) Ceriodaphnia dubia (48H) 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50

Persistence and degradability No information available

Bioaccumulation/Accumulation No information available.

Mobility No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

UN-No	1791
Proper Shipping Name	Hypochlorite solution
Hazard Class	8
Packing Group	III
Special Provisions	Not to be carried with Class 1 or 7 products. If carried with Class 4.3, 5.1, 5.2, foodstuffs or an acid, then an approved segregation device must be used and the other products must not be Packaging Group I. Keep away from aluminium. Wear eye protection, PVC gloves and apron when handling
Hazchem Code	2X

15. REGULATORY INFORMATION

ERMA Reference	ERMA User Guide to the HSNO Controls, which links to the Hazardous Substances Regulations 2001

16. OTHER INFORMATION

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References	- Hazardous Substances (Hazardous Classification) Notice 2020 - Hazardous substances (Labelling) Notice 2017 - Hazardous Substances (Safety Data Sheets) Notice 2017 - GHS8 - European Agreement concerning the International Carriage of Dangerous Goods by Road - New Zealand Workplace Exposure Standards (WES) - International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans - Chemical Classification and Information Database (CCID)

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