HG drain odour eliminator

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)
Issue date: 10-30-2021 Revision date: 12-30-2024 Version: 2.0

SECTION 1 Identification

1.1. GHS Product identifier

Product form	: Mixture
Product name	: HG drain odour eliminator
Type of product	: Detergent
Product code	: 624 ART
Product group	: Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Intended for general public

Use of the substance/mixture	:	Drain cleaning products
Restrictions on use	:	All other uses not recommended above

1.4. Supplier's details

Manufacturer
HG International B.V.
P.J. Oudweg 41
Almere, 1314 CJ
The Netherlands
T +31 (0)36 54 94 700
safety@hg.eu - www.hg.eu

Distributor
Toolway Industries Ltd.
1-280 Hunter's Valley Road
Woodbridge, On L4H 3V9
Canada

1.5. Emergency phone number

Country/Area	Organization/Company	Address	Emergency number	Comment
Canada	CANUTEC		1-888-CANUTEC (226-8832) (North American) 1-613-996-6666 (International use)	Toll Free (800) 255 3924 (24h)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Acute toxicity (oral), Category 4	H302	Harmful if swallowed
Skin corrosion/irritation, Category 1	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage

Full text of H statements : see section 16

2.2. GHS label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :

Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS CA) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P260 - Do not breathe vapors, mist.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear eye protection, protective gloves.
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.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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, a doctor.
P330 - Rinse mouth.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : May intensify fire; oxidizer.

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Sodium percarbonate	Percarbonates	CAS-No.: 15630-89-4	≥ 25 – < 50	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
sodium carbonate	sodium carbonate	CAS-No.: 497-19-8	≥ 25 – < 50	Eye Irrit. 2A, H319
Sodium hydroxide, caustic soda	Sodium hydroxide, caustic soda	CAS-No.: 1310-73-2	≥ 10	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.
First-aid measures general : Call a physician immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : May cause or intensify fire; oxidizer.
Explosion hazard : Intense heat may cause container to burst.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Firefighting instructions : Control run-off water by containing and keeping it out of sewers and watercourses. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Avoid formation of dust. Dilute small spillage well and wash away with large quantities of water. Contain large spillage with sand or earth.
Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.
Hygiene measures	:	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	:	Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Keep in a cool, well-ventilated place away from heat.
Storage conditions	:	Store in dry, cool, well-ventilated area. Store locked up.
Incompatible materials	:	Acids.
Heat-ignition	:	Keep away from heat and direct sunlight. No flames. Eliminate all sources of ignition.
Storage temperature	:	> 0 – < 30 °C
Special rules on packaging	:	Keep only in original container. Opened containers must be carefully closed and kept upright to avoid leakage.
Packaging materials	:	Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Sodium hydroxide, caustic soda (1310-73-2)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Sodium hydroxide
Plafond (OEL C)	2 mg/m³
Notations and remarks	RP
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Notations and remarks	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024

Sodium hydroxide, caustic soda (1310-73-2)	
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Notations and remarks	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Notations and remarks	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Notations and remarks	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:
Safety glasses. Gloves. Protective clothing. Wear safety footwear.

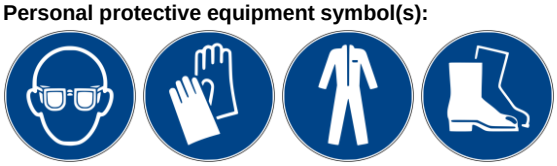
Hand protection:				
Protective gloves				
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**
Disposable gloves	butyl rubber	6 (> 480 minutes)	0.5	
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35	

Eye protection:		
Safety glasses		
Type	**Field of application**	**Characteristics**
Safety glasses with side shields	Normal use conditions	

Skin and body protection:
Wear protective clothing
Type
Long sleeved protective clothing
Chemical resistant safety shoes
Use chemically protective clothing

Respiratory protection:
No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s):



Other information:
Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Powder.
Color	:	White
Odor	:	citrus-like
Odor threshold	:	No data available
pH	:	11.94
pH solution	:	10 (≤ 13.1) %
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available

Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Density	:	1.09 g/ml
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	Not applicable
Explosion limits	:	Not applicable
Particle characteristics	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7).
Incompatible materials	:	Acids.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	:	No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)

HG drain odour eliminator	
ATE CA (oral)	1261.047 mg/kg body weight

sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg body weight Animal: rat
LD50 oral	4090 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: other:
LC50 Inhalation - Rat (Dust/Mist)	2300 mg/l
ATE CA (oral)	2800 mg/kg body weight
ATE CA (dust,mist)	2300 mg/l/4h

Sodium percarbonate (15630-89-4)	
LD50 oral	1034 mg/kg body weight

Sodium percarbonate (15630-89-4)	
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: other:
LD50 dermal	> 2000 mg/kg body weight
ATE CA (oral)	1034 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns.
pH: 11.94

sodium carbonate (497-19-8)	
pH	≈ 11.6 Concentration: (≈)0,1 other:

Sodium hydroxide, caustic soda (1310-73-2)	
pH	> 14

Serious eye damage/irritation : Causes serious eye damage.
pH: 11.94

sodium carbonate (497-19-8)	
pH	≈ 11.6 Concentration: (≈)0,1 other:

Sodium hydroxide, caustic soda (1310-73-2)	
pH	> 14

Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

HG drain odour eliminator	
Viscosity, kinematic	Not applicable

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met).
Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met).

sodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 96h - Algae [1]	242 mg/l Source: ECOTOX

Sodium hydroxide, caustic soda (1310-73-2)	
LC50 - Fish [1]	> 35 mg/l
EC50 - Crustacea [1]	40.4 mg/l Test organisms (species): Ceriodaphnia sp.
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea

Sodium percarbonate (15630-89-4)	
LC50 - Fish [1]	> 70 mg/l
EC50 - Crustacea [1]	4.9 mg/l Test organisms (species): Daphnia pulex
EC50 - Other aquatic organisms [1]	4.9 mg/l waterflea
ErC50 algae	> 7.7 mg/l Source: SIDS

12.2. Persistence and degradability

HG drain odour eliminator	
Persistence and degradability	The product does not contain surface-active substances.

sodium carbonate (497-19-8)	
Persistence and degradability	Rapidly degradable

Sodium hydroxide, caustic soda (1310-73-2)	
Persistence and degradability	Rapidly degradable

Sodium percarbonate (15630-89-4)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

HG drain odour eliminator	
Bioaccumulative potential	No bioaccumulation expected.

sodium carbonate (497-19-8)	
Partition coefficient n-octanol/water (Log Pow)	-6.19

Sodium hydroxide, caustic soda (1310-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-3.88

12.4. Mobility in soil

HG drain odour eliminator	
Ecology - soil	Expected to be highly mobile in soil.

12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations. Do not flush down sewers.

Product/Packaging disposal recommendations	:	Empty containers retain product residue and can be hazardous. Do not dispose of the packaging without first carrying out the necessary cleaning. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Disposal must be done according to official regulations. Do not pierce or burn, even after use.
Additional information	:	Do not re-use empty containers.
Ecological waste information	:	Recycling is preferred to disposal or incineration. Avoid release to the environment.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
UN1759	UN1759	1759	1759
14.2. UN Proper Shipping Name			
CORROSIVE SOLID, N.O.S. (CONTAINS : Sodium hydroxide, caustic soda)	Corrosive solids, n.o.s. (CONTAINS : Sodium hydroxide ; Sodium percarbonate)	CORROSIVE SOLID, N.O.S. (CONTAINS : Sodium hydroxide; caustic soda)	Corrosive solid, n.o.s. (CONTAINS : Sodium hydroxide; caustic soda)
Transport document description			
UN1759 CORROSIVE SOLID, N.O.S. (CONTAINS : Sodium hydroxide, caustic soda), 8, II	UN1759 Corrosive solids, n.o.s. (CONTAINS : Sodium hydroxide ; Sodium percarbonate), 8, II	UN 1759 CORROSIVE SOLID, N.O.S. (CONTAINS : Sodium hydroxide; caustic soda), 8, II	UN 1759 Corrosive solid, n.o.s. (CONTAINS : Sodium hydroxide; caustic soda), 8, II
14.3. Transport hazard class(es)			
8	8	8	8
			
14.4. Packing group, if applicable			
II	II	II	II
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

TDG

UN-No. (TDG)	:	UN1759

TDG Special Provisions	:	16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	:	1 kg
Excepted quantities (TDG)	:	E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	15 kg
Emergency Response Guide (ERG) Number	:	154

DOT

UN-No. (DOT)	:	UN1759
DOT Special Provisions (49 CFR 172.102)	:	128 - Regardless of the provisions of §172.101(c)(12), aluminum smelting by-products and aluminum remelting by-products described under this entry, meeting the definition of Class 8, Packing Group II and III may be classed as a Division 4.3 material and transported under this entry. The presence of a Class 8 hazard must be communicated as required by this Part for subsidiary hazards IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	212
DOT Packaging Bulk (49 CFR 173.xxx)	:	240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	15 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	50 kg
DOT Vessel Stowage Location	:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.

IMDG

Special provision (IMDG)	:	274
Limited quantities (IMDG)	:	1 kg
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P002
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B21, B4
Tank instructions (IMDG)	:	T3
Tank special provisions (IMDG)	:	TP33
EmS-No. (Fire)	:	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	:	S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y844
PCA limited quantity max net quantity (IATA)	:	5kg
PCA packing instructions (IATA)	:	859
PCA max net quantity (IATA)	:	15kg
CAO packing instructions (IATA)	:	863
CAO max net quantity (IATA)	:	50kg
Special provision (IATA)	:	A3, A803
ERG code (IATA)	:	8L

14.7. Transport in bulk according to Annex II of MARPOL 73/78[9] and the IBC Code[10]

Not applicable

SECTION 15 Regulatory information

sodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

Sodium hydroxide, caustic soda (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

Sodium percarbonate (15630-89-4)

Listed on the Canadian DSL (Domestic Substances List)

sodium carbonate (497-19-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Sodium hydroxide, caustic soda (1310-73-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Sodium percarbonate (15630-89-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

SECTION 16 Other Information

Issue date : 10-30-2021

Revision date : 12-30-2024

Indication of changes

Section	Changed item	Comments
	Hazard labels (TDG)	**Modified**
	Proper Shipping Name (TDG)	**Modified**
	UN-No. (TDG)	**Modified**
	Precautionary statements (GHS CA)	**Modified**
	Hazard statements (GHS CA)	**Modified**
	Hazard pictograms (GHS CA)	**Modified**
	Revision date	**Added**
	Reference number	**Added**
	Stowage category (IMDG)	**Modified**
	Proper Shipping Name (IMDG)	**Modified**
	IBC special provisions (IMDG)	**Added**
	IBC packing instructions (IMDG)	**Added**
	EmS-No. (Spillage)	**Modified**
	Special provision (IATA)	**Added**
	Proper Shipping Name (IATA)	**Modified**
	ERG code (IATA)	**Modified**
	Hazard labels (IMDG)	**Modified**
	Hazard labels (IATA)	**Modified**
	Type of product	**Added**
1.2	Restrictions on use	**Added**
2.1	Classification (GHS CA)	**Modified**
2.3	Other hazards which do not result in classification	**Added**
3	Composition/Information on ingredients	**Modified**
4.2	Symptoms/effects after inhalation	**Added**
5.1	Unsuitable extinguishing media	**Added**
5.2	Hazardous decomposition products in case of fire	**Modified**
5.2	Explosion hazard	**Added**
5.2	Fire hazard	**Modified**
5.3	Firefighting instructions	**Added**

Indication of changes		
Section	**Changed item**	**Comments**
6	Methods for cleaning up	**Modified**
6	For containment	**Modified**
6.1	General measures	**Added**
7.1	Precautions for safe handling	**Modified**
7.1	Additional hazards when processed	**Added**
7.2	Packaging materials	**Added**
7.2	Storage conditions	**Modified**
7.2	Technical measures	**Added**
7.2	Heat-ignition	**Added**
7.2	Incompatible materials	**Modified**
7.2	Storage temperature	**Added**
7.2	Special rules on packaging	**Added**
8.2	Eye protection	**Modified**
8.2	Appropriate engineering controls	**Modified**
8.2	Skin and body protection	**Modified**
8.2	Other information	**Added**
8.2	Personal protective equipment	**Modified**
8.2	Respiratory protection	**Modified**
9	Viscosity, kinematic	**Modified**
9	Freezing point	**Modified**
9	Flash point	**Modified**
9	Auto-ignition temperature	**Modified**
9	Flammability	**Added**
9	pH solution	**Added**
9	pH	**Modified**
9	Odor	**Modified**
9	Color	**Modified**
9	Appearance	**Added**
9	Density	**Added**
9.1	Explosion limits (vol %)	**Modified**
10	Possibility of hazardous reactions	**Modified**
10	Reactivity	**Modified**
10	Chemical stability	**Modified**
10	Hazardous decomposition products	**Modified**
10	Conditions to avoid	**Modified**

Indication of changes		
Section	**Changed item**	**Comments**
10	Incompatible materials	**Modified**
12.1	Ecology - general	**Modified**
12.2	Persistence and degradability	**Added**
12.3	Bioaccumulative potential	**Added**
12.4	Ecology - soil	**Added**
13.1	Sewage disposal recommendations	**Added**
13.1	Additional information	**Added**
13.1	Product/Packaging disposal recommendations	**Added**
13.1	Regional waste regulation	**Added**
13.1	Ecological information	**Added**
14	Packing group (IATA)	**Modified**
14.1	UN-No. (IMDG)	**Modified**
14.1	UN-No. (IATA)	**Modified**
16	Abbreviations and acronyms	**Added**
16	Training advice	**Added**

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging. Ensure personnel is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Other information : DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of hazard classes and H-statements:	
H272	May intensify fire; oxidizer
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

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

Abbreviations and acronyms:	
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.