

SECTION 1: Identification

1.1. Product identifier

Product form	: Mixture
Product name	: HG oven, bbq and grill cleaner
Type of product	: Detergent
Product code	: 138 ART
Product group	: Trade product

1.2. Recommended use and restrictions on use

Recommended use	: Cleaning agent
Restrictions on use	: All other uses not recommended above

1.3. Supplier

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

1.4. Emergency telephone 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)

Skin corrosion/irritation Category 1B	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)

: H314 - Causes severe skin burns and eye damage

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Precautionary statements (GHS CA) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P280 - Wear protective gloves, eye protection.
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 .
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.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Sodium hydroxide, caustic soda	Sodium hydroxide, caustic soda	CAS-No.: 1310-73-2	≥ 2 – < 5	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
D-Glucopyranose, oligomers, decyl octyl glycosides	-	CAS-No.: 68515-73-1	≥ 2 – < 5	Eye Dam. 1, H318
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs.	Acids	CAS-No.: 85536-14-7	≥ 2 – < 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sodium etasulphate	-	CAS-No.: 126-92-1	≥ 2 – < 5	Skin Irrit. 2, H315 Eye Dam. 1, H318

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

SECTION 4: First-aid measures

4.1. Description of 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.

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4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: 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. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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5.2. Unsuitable extinguishing media

Unsuitable extinguishing media	: Do not use a heavy water stream.
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5.3. Specific hazards arising from the hazardous product

Explosion hazard	: Intense heat may cause container to burst.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Sulphur oxides. Metallic oxides.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. 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.
Precautionary measures fire	: Runoff from fire control or dilution water may cause pollution.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
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6.2. Methods and materials for containment and cleaning up

For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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 mist, vapors. Wear personal protective equipment.
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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.
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/m ³
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/m ³
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/m ³
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/m ³
Notations and remarks	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL C	2 mg/m ³
Notations and remarks	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2024

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Sodium hydroxide, caustic soda (1310-73-2)	
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-013-2020)
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
- : Ensure good ventilation of the work station.
- Environmental exposure controls
- : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

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

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

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Disposable gloves	butyl rubber	6 (> 480 minutes)	0.5	
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Eye protection:

Safety glasses

Type	Field of application	Characteristics
Chemical goggles or face shield	Droplet	
Safety glasses with side shields	Normal use conditions	

Skin and body protection:

Wear suitable protective clothing

Type

Use chemically protective clothing

Long sleeved protective clothing

Chemical resistant safety shoes

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Other information:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Color	: light yellow
Odor	: Characteristic
Odor threshold	: No data available
pH	: 13 – 13.5
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available

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Relative density	: No data available
Density	: 1.05 – 1.06
Solubility	: Soluble in the following materials: cold water and hot water. Methanol. n-octanol. Acetone.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available

9.2. Other information

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	: Contact with acids liberates toxic gas.
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. Information on toxicological effects

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

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rabbit	> 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	> 2000 mg/kg body weight
Sodium etasulphate (126-92-1)	
LD50 oral rat	4000 mg/kg Source: NLM
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	6540 mg/kg Source: NLM
ATE CA (oral)	4000 mg/kg body weight
ATE CA (Dermal)	6540 mg/kg body weight
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
LD50 oral rat	≈ 1470 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1361 - 1588
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
ATE CA (oral)	500 mg/kg body weight

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Skin corrosion/irritation : Causes severe skin burns.
pH: 13 – 13.5

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

Sodium etasulphate (126-92-1)	
pH	10.5 – 11.5

Serious eye damage/irritation : Causes serious eye damage.
pH: 13 – 13.5

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

Sodium etasulphate (126-92-1)	
pH	10.5 – 11.5

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)

Sodium etasulphate (126-92-1)	
LOAEL (oral,rat,90 days)	1016 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral,rat,90 days)	488 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Symptoms/effects after inhalation : 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 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

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LC50 - Fish [1]	100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

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D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	31.62 mg/l (OECD 202 method)
EC50 72h - Algae [1]	27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	1.8 mg/l Brachydanio rerio (zebra-fish)
NOEC chronic crustacea	2 mg/l Daphnia magna (Water flea)
Sodium etasulphate (126-92-1)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	483 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 511 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	≥ 1357 mg/l Test organisms (species): Pimephales promelas Duration: '42 d'
NOEC (chronic)	1.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
LOEC (chronic)	6.86 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
LC50 - Fish [1]	1.67 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	2.9 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	7.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	1 mg/l days = 28 ; Species: Lepomis macrochirus (Bluegill); Data source: Literature data
NOEC (chronic)	1.18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

HG oven, bbq and grill cleaner	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Sodium hydroxide, caustic soda (1310-73-2)	
Persistence and degradability	Rapidly degradable
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % (OECD 301E method)
Sodium etasulphate (126-92-1)	
Persistence and degradability	Rapidly degradable
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
Persistence and degradability	Rapidly degradable

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12.3. Bioaccumulative potential

HG oven, bbq and grill cleaner	
Bioaccumulative potential	Low bioaccumulation potential.
Sodium hydroxide, caustic soda (1310-73-2)	
Partition coefficient n-octanol/water (Log Pow)	-3.88
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Bioconcentration factor (BCF REACH)	< 100
Partition coefficient n-octanol/water (Log Kow)	≤ -0.07 at 20°C
Sodium etasulphate (126-92-1)	
Partition coefficient n-octanol/water (Log Pow)	-0.35
Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)	
Partition coefficient n-octanol/water (Log Pow)	2

12.4. Mobility in soil

HG oven, bbq and grill cleaner	
Ecology - soil	Expected to be highly mobile in soil.
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Mobility in soil	0.2624 Source: EPISUITE

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Dispose of in accordance with relevant local 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.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.
Ecological information : Recycling is preferred to disposal or incineration.

SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN number			
UN3267	3267	3267	3267
14.2. Proper Shipping Name			
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : Sodium hydroxide, caustic soda)	Corrosive liquid, basic, organic, n.o.s. (CONTAINS : Sodium hydroxide)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : Sodium hydroxide; caustic soda)	Corrosive liquid, basic, organic, n.o.s. (CONTAINS : Sodium hydroxide; caustic soda)

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TDG	DOT	IMDG	IATA
Transport document description			
UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : Sodium hydroxide, caustic soda), 8, III	UN3267 Corrosive liquid, basic, organic, n.o.s. (CONTAINS : Sodium hydroxide), 8, III	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS : Sodium hydroxide; caustic soda), 8, III	UN 3267 Corrosive liquid, basic, organic, n.o.s. (CONTAINS : Sodium hydroxide; caustic soda), 8, III
14.3. Transport hazard class(es)			
8	8	8	8
			
14.4. Packing group			
III	III	III	III
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

Special transport precautions : Transport always in closed, upright and safe containers, Make sure that persons transporting the product know what to do in case of an accident or leakage

TDG

UN-No. (TDG)

TDG Special Provisions

: UN3267

: 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 : 5 L

Excepted quantities (TDG) : E1

Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number : 153

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DOT

UN-No.(DOT)	: UN3267
DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters", 52 - Stow "separated from" acids

IMDG

Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
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
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 8L

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

Not applicable

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SECTION 15: Regulatory information

15.1. National regulations

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

Listed on the Canadian DSL (Domestic Substances List)

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)

Listed on the Canadian DSL (Domestic Substances List)

Sodium etasulphate (126-92-1)

Listed on the Canadian DSL (Domestic Substances List)

Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

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)

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Sodium etasulphate (126-92-1)

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

Benzenesulphonic acid, 4-C10-13-sec-alkyl derivs. (85536-14-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

SECTION 16: Other information

Issue date : 10-29-2021
Revision date : 04-15-2024

Indication of changes

Section	Changed item	Change	Comments
	Revision date	Added	
	UN-No.(DOT)	Modified	
	Emergency Response Guide (ERG) Number	Modified	
	UN-No. (TDG)	Modified	
	DOT NA No	Modified	

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Indication of changes			
Section	Changed item	Change	Comments
	DOT Vessel Stowage Other	Modified	
	Proper Shipping Name (DOT)	Modified	
	Proper Shipping Name (TDG)	Modified	
	Precautionary statements (GHS CA)	Modified	
	Concentration of the solution used for the pH measurement	Added	
	Segregation (IMDG)	Added	
	Proper Shipping Name (IATA)	Modified	
	Properties and observations (IMDG)	Modified	
	Proper Shipping Name (IMDG)	Modified	
	ERG code (IATA)	Added	
	Special provision (IATA)	Added	
	Hazard labels (IATA)	Added	
	Hazard labels (IMDG)	Added	
	EmS-No. (Spillage)	Added	
	EmS-No. (Fire)	Added	
	Stowage and handling (IMDG)	Added	
1.1	Name	Added	
1.2	Restrictions on use	Added	
2.1	Classification (GHS CA)	Modified	
3	Composition/Information on ingredients	Modified	
4.2	Symptoms/effects after inhalation	Added	
5.2	Explosion hazard	Added	
5.3	Firefighting instructions	Added	
6	For containment	Added	
6.1	General measures	Added	
7.1	Additional hazards when processed	Added	
7.1	Precautions for safe handling	Modified	
7.2	Technical measures	Added	
7.2	Packaging materials	Added	
7.2	Storage temperature	Added	
7.2	Storage conditions	Modified	
7.2	Incompatible materials	Added	
7.2	Special rules on packaging	Added	
8.2	Eye protection	Modified	

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Indication of changes			
Section	Changed item	Change	Comments
8.2	Personal protective equipment	Modified	
9.1	Melting point	Removed	
9.1	pH	Modified	
9.1	Density	Added	
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	Ecological information	Added	
13.1	Regional waste regulation	Added	
14	Special transport precautions	Added	
14.1	UN-No. (IMDG)	Modified	
14.1	UN-No. (IATA)	Modified	
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 H-phrases:	
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects

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

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Abbreviations and acronyms:	
ATE	Acute Toxicity Estimate
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	Organisation 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 disrupting properties

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.