



VELTEK ASSOCIATES, INC.

HYPO-CHLOR® 5.25%

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272
Issue date: 3/4/2013 Revision date: 6/9/2026 Supersedes: 3/18/2021 Version: 4.4

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : HYPO-CHLOR® 5.25%
Product code : SDS HC-98-01

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Disinfectant/Cleaning agent

1.4. Supplier's details

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335
E-mail: vai@sterile.com

In Canada distributed by:
Canada Clean Room (CCR)
20 Cope Dr.
Kanata, ON K2M 2V8, Canada
Telephone: 1-(888)-595-8070

1.5. Emergency phone number

Emergency number : CARECHEM 24: 1-215-207-0061
1-866-928-0789 (toll free USA)
Canada: 1-800-579-7421 (toll free)
Mexico: +52-55-5004-8763

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Corrosive to metals, Category 1	H290	May be corrosive to metals.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272

Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: H290 - May be corrosive to metals H315 - Causes skin irritation H318 - Causes serious eye damage H400 - Very toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS US)	: P234 - Keep only in original packaging. P264 - Wash hands thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear eye protection; protective gloves; protective clothing. P302+P352 - IF ON SKIN: Wash with plenty of water P332+P313 - If skin irritation occurs: Get medical advice or attention. 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 doctor. P362+P364 - Take off contaminated clothing and wash it before reuse. P390 - Absorb spillage to prevent material-damage. P391 - Collect spillage. P406 - Store in a corrosion resistant container with a resistant inner liner. P501 - Dispose of an authorized waste collection point to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Sodium hypochlorite	CAS-No.: 7681-52-9	4.0 - 6.5	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
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First-aid measures after inhalation	: Remove person to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop obtain medical attention.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water (for at least 15 minutes). Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Ingestion may cause irritation of the gastrointestinal tract.

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

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

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Not combustible. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Hazardous decomposition products in case of fire	: In case of fire product can release: Chlorine. oxygen.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures	: Ventilate area. Avoid inhalation of vapors. Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel.
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For emergency responders

Protective equipment	: Equip cleanup crew with proper protection. Use chemically protective clothing.
Emergency procedures	: Ventilate area. Avoid inhalation of vapors. Do not get in eyes, on skin, or on clothing.

Environmental precautions	: Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.
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6.2. Methods and materials for containment and cleaning up

For containment	: Stop leak, if possible without risk. Dam up the liquid spill.
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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store in corrosive resistant container with a resistant inner liner. Store away from other materials.

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Avoid inhalation of vapors. Do not get in eyes, on skin, or on clothing. Wear recommended personal protective equipment. Keep away from heat.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container or corrosive resistant and/or lined container. Keep in a cool, well-ventilated place. Keep away from : Acids, Incompatible materials. Keep container closed when not in use. Store locked up.

Incompatible materials : Acids. Water-reactive materials. Metals. Amines.

Specific end uses : Cleaning agent.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation. Emergency eye wash stations should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:
Avoid all unnecessary exposure. Wear suitable protective clothing.

Hand protection:
Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough. Hand Protection in accordance with 29 CFR 1910.138 & ANSI/ISEA 105-2016
Eye protection:
Chemical goggles or face shield. Eye Protection in accordance with 29 CFR 1910.133 & ANSI/ISEA Z87.1-2020
Skin and body protection:
Wear suitable working clothes

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Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Respiratory protection in accordance with 29 CFR 1910.134 & ANSI Z88.2 / ANSI Z88.6

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Colorless to straw-colored liquid.
Color	: Colorless to straw yellow
Odor	: Chlorine
Odor threshold	: No data available
pH	: 11 – 13
pH solution concentration	: 100
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 212 °F (100 °C)
Flash point	: Not applicable
Flammability (solid, gas)	: Not combustible.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.05 – 1.09 (Water = 1)
Solubility	: Water: Miscible
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Not explosive.
Oxidizing properties	: Slightly oxidizing.
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

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Slowly decomposes on contact with air.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas (chlorine).

10.4. Conditions to avoid

Extremely high or low temperatures. Keep out of direct sunlight.

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10.5. Incompatible materials

Acids. Water-reactive materials. Metals. Amines.

10.6. Hazardous decomposition products

Chlorine. oxygen.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Sodium hypochlorite (7681-52-9)

LD50 oral, rat	8800 mg/kg Source: ECHA
LD50 oral	5230 mg/kg
LD50 dermal, rabbit	> 20000 mg/kg (12.5% Aqueous solution)
LD50 dermal	2500 mg/kg
LC50 inhalation, rat (Vapors - mg/l/4h)	> 10.5 mg/l
ATE US (oral)	8800 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
In vitro tests found the product to be non-corrosive (OECD 435 method)
pH: 11 – 13

Sodium hypochlorite (7681-52-9)

pH	11
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Serious eye damage/irritation : Causes serious eye damage.
pH: 11 – 13

Sodium hypochlorite (7681-52-9)

pH	11
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Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Sodium hypochlorite (7681-52-9)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified
STOT-single exposure : Not classified

Sodium hypochlorite (7681-52-9)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye damage.
Symptoms/effects after ingestion : Ingestion may cause irritation of the gastrointestinal tract.

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SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Sodium hypochlorite (7681-52-9)	
LC50 fish	0.033 – 0.097 mg/l Source: International Uniform Chemical Information Database
EC50 Daphnia	0.005 mg/l
LC50 fish 2	0.032 mg/l - 96 Hours (marine water fish)
EC50 - Crustacea [2]	35 µg/l - 48 Hours (Ceriodaphnia dubia)
ErC50 algae	0.0499 mg/l - 72 Hours (Freshwater)
NOEC chronic fish	0.005 mg/l
NOEC chronic crustacea	0.007 mg/l - 15 days (estimated)

12.2. Persistence and degradability

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Persistence and degradability	Not established.
Sodium hypochlorite (7681-52-9)	
Persistence and degradability	Not relevant for inorganic substances.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Low bioaccumulation potential.
Sodium hypochlorite (7681-52-9)	
Log Pow	-3.42 (20 °C, pH 12.5, Quantitative structure-activity relationship (QSAR))

12.4. Mobility in soil

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Ecology - soil	Very mobile.
Sodium hypochlorite (7681-52-9)	
Ecology - soil	Miscible with water.

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

Other information : Avoid release to the environment.

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SECTION 13 Disposal considerations

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

UN-No. (DOT)	: UN1791
UN-No. (TDG)	: UN1791
UN-No. (IMDG)	: 1791
UN-No. (IATA)	: 1791

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT)	: Hypochlorite solutions
Proper Shipping Name (TDG)	: HYPOCHLORITE SOLUTION
Proper Shipping Name (IMDG)	: HYPOCHLORITE SOLUTION
Proper Shipping Name (IATA)	: Hypochlorite solution

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT)	: 8
Hazard labels (DOT)	: 8



TDG

Transport hazard class(es) (TDG)	: 8
Hazard labels (TDG)	: 8



IMDG

Transport hazard class(es) (IMDG)	: 8
Hazard labels (IMDG)	: 8



IATA

Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8



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14.4. Packing group

Packing group (DOT)	: III
Packing group (TDG)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes



Other information	: No supplementary information available.
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14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT)	: UN1791
DOT Special Provisions (49 CFR 172.102)	: 386 - Notwithstanding the provisions of §177.834(l) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private, leased or contract carrier vehicles under exclusive use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments made in accordance with this Special provision are excepted from the requirements of §173.60(b)(4) of this subchapter. 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). N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $95 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: $a = (d_{15} - d_{50}) / 35 d_{50}$ Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP24 - The portable tank may be fitted with a device to prevent the build up of excess pressure due to the slow decomposition of the hazardous material being transported. The device must be in the vapor space when the tank is filled under maximum filling conditions. This device must also prevent an unacceptable amount of leakage of liquid in the case of overturning.
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

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 26 - Stow “away from” acids,53 - Stow “separated from” alkaline compounds,58 - Stow “separated from” cyanides

TDG	
UN-No. (TDG)	: UN1791
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5 L
Emergency Response Guide (ERG) Number	: 154

IMDG
No data available

IATA	
PCA Excepted quantities (IATA)	: E1

SECTION 15 Regulatory information

15.1. Federal regulations

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SARA Section 311/312 Hazard Classes	Physical hazard - Corrosive to metals Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Sodium hypochlorite	7681-52-9	Present	Active	

Sodium hypochlorite (7681-52-9)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	100 lb

15.2. International regulations

CANADA

Sodium hypochlorite (7681-52-9)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

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National regulations

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This chemical is a pesticide product registered by the United States Environmental Protection Agency (Registration no. 68959-5) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is: WARNING/AVERTISSEMENT/ADVERTENCIA. The pesticide label also includes other important information, including directions for use. In Canada, this product is a drug product registered with Health Canada. Canada DIN #02349159.

Sodium hypochlorite (7681-52-9)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Sodium hypochlorite(7681-52-9)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) and according to SOR/2015-17, Hazardous Products Regulations (HPR) with its amendment Regulation SOR/2022-272

Revision date : 6/9/2026

Issue date : 3/4/2013

Data sources : US OSHA HazCom (GHS) 25 May 2012. ECHA (European Chemicals Agency), <http://echa.europa.eu/>.

Other information : Marine Pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5lt or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general requirements of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria of inclusion in another hazards class all provisions of the Code relevant to any additional hazards continue to apply.

Full text of hazard classes and H-statements

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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Abbreviations and acronyms	
	ACGIH (American Conference of Government Industrial Hygienists)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	DNEL (Derived No Effect Level)
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	STEL (Short Term Exposure Limit)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

NFPA health hazard

NFPA fire hazard

NFPA reactivity

Hazard Rating

Health

Flammability

Physical

: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

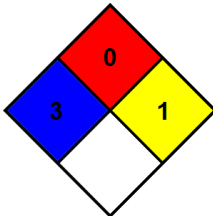
: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

: 0 Minimal Hazard - Materials that will not burn

: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.



Indication of changes:		
Section	Changed item	Comments
1	Identification	Modified
2	Hazards identification	Modified

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3	Composition/Information on ingredients	Modified
4	First aid measures	Modified
5	Fire fighting measures	Modified
6	Accidental release measures	Modified
7	Handling and storage	Modified
8	Exposure controls / Personal protection equipment	Modified
9	Physical and chemical properties	Modified
10	Stability and reactivity	Modified
11	Toxicological information	Modified
12.	Ecological information	Modified
13	Disposal considerations	Modified
14	Transport information	Modified
15	Regulatory information	Modified
16	Other information	Modified

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This SDS has been translated into the official language of the country/region in which the product is to be placed on the market. Where no official translation exists, the regulatory text is reported in English, as it appears in the relevant regulatory text.