



HYPO-CHLOR[®] 5.25%

Safety Data Sheet

VELTEK ASSOCIATES, INC.

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 04/03/2013 Revision date: 02/09/2017 Supersedes: 05/25/2016 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : HYPO-CHLOR[®] 5.25%
Product code : SDS HC-98-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Cleaning agent

1.3. Details of the supplier of the safety data sheet

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vai@sterile.com Telephone: 613-591-0044

1.4. Emergency telephone number

Emergency number : CARECHEM 24 call: 1-866-928-0789

SECTION 2: Hazard(s) identification

Physical state : Liquid.
Appearance : Colorless to yellow. Liquid.
Emergency overview : WARNING
Causes skin and eye irritation. Causes digestive tract irritation.
OSHA regulatory status : This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure : Inhalation. Ingestion. Skin contact. Eye contact.
Eyes : Causes eye irritation.
Skin : Causes skin irritation.
Inhalation : May cause irritation of nose, throat and mucous membranes.
Ingestion : Irritating to mouth, throat, and stomach.
Target organs : Eyes. Skin. Lungs. Digestive tract.
Chronic effects : Prolonged exposure may cause chronic effects.
Signs and symptoms : Irritant effects. Contact may cause irritation with redness, tearing and pain. Vapors may irritate throat and respiratory system and cause coughing. Ingestion may cause irritation and malaise. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Potential environmental effects : Toxic to aquatic organisms.

Other hazards

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Sodium hypochlorite	(CAS No) 7681-52-9	4 - 6	Skin Corr. 1B, H314

HYPO-CHLOR® 5.25%

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim 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. Obtain immediate medical attention.
First-aid measures after eye contact	: Immediately rinse 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. Do not give an unconscious person anything to drink. Rinse mouth. Give 100 - 200 ml of water to drink. Obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Inhalation of vapours may cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May cause irritation to the mouth, throat, esophagus, and stomach.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not flammable.
Reactivity	: Stable under normal conditions.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid fire-fighting water entering the 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

6.1.1. For non-emergency personnel

Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Evacuate unnecessary personnel. Keep upwind.

6.1.2. For emergency responders

Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area. Avoid contact with skin and eyes.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4. Reference to other sections

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

HYPO-CHLOR® 5.25%

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 vapour. Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Acids. Keep container closed when not in use.
- Incompatible materials : Acids. Water reactive materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear chemically resistant protective gloves.
- Eye protection : Wear safety glasses with side shields.
- Skin and body protection : Long sleeved protective clothing.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.
- Thermal hazard protection : Not required for normal conditions of use.
- Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : Colorless to slightly yellow
- Odour : Chlorine
- Odour threshold : No data available
- pH : 11.0 - 13.0
- Melting point : Not applicable
- Freezing point : No data available
- Boiling point : 100 °C (212 °F)
- Flash point : Not applicable
- Relative evaporation rate (butylacetate=1) : No data available
- Flammability (solid, gas) : Not applicable.
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available
- Relative density : 1 - 1.10
- Solubility : Water: Miscible
- Log Pow : No data available
- Auto-ignition temperature : Not applicable
- Decomposition temperature : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive limits : No data available
- Explosive properties : Not applicable.
- Oxidising properties : No data available

HYPO-CHLOR® 5.25%

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

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.

10.5. Incompatible materials

Acids. Water reactive materials. Cleaning products.

10.6. Hazardous decomposition products

Thermal decomposition generates : Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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LD50 oral rat	8200 mg/kg (Hypochlorite)
LD50 dermal rabbit	> 10000 mg/kg (Hypochlorite)

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

pH: 11.0 - 13.0

Serious eye damage/irritation : Causes serious eye irritation.

pH: 11.0 - 13.0

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause irritation to the mouth, throat, esophagus, and stomach.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life.

Sodium hypochlorite (7681-52-9)	
LC50 fish	0.05 - 0.771 mg/l (96 hr Oncorhynchus mykiss)
EC50 Daphnia	2.1 mg/l (96 hr Daphnia magna)
LC50 fish 2	0.06 - 0.11 mg/l (96 hr Pimephales promelas)

HYPO-CHLOR® 5.25%

Safety Data Sheet

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12.2. Persistence and degradability

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Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Low bioaccumulation potential.
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12.4. Mobility in soil

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Ecology - soil	Very mobile.
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12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

TDG

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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Sodium hypochlorite (7681-52-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ	100 lb
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15.2. International regulations

CANADA

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WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
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EU-Regulations

No additional information available

National regulations

No additional information available

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Safety Data Sheet

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15.3. US State 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

Revision date : 02/09/2017

Other information : This chemical is a pesticide product registered by the United States Environmental Protection Agency (#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 KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO. The pesticide label also includes other important information, including directions for use. Canada DIN #02349159. In Canada, this product is a drug product registered with Health Canada.

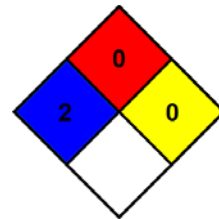
Full text of H-phrases::

H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : G

G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

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