

SAFETY DATA SHEET

1. Identification

Product identifier Sodium Hypochlorite, 5-15% Solution

Other means of identification None.

Recommended use Cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name PVS Benson
Address 1012 Gore Road
Freelton, ON L0R1K0

Canada

Telephone 1-800-265-0014

e-mail bensoncs@pvschemicals.com

Emergency phone number 24 hours/7 days: 1-313-921-1200

Supplier See above.

2. Hazard identification

Physical hazardsCorrosive to metalsCategory 1Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Causes serious eye damage.

Precautionary statement

Prevention Keep only in original packaging. Do not breathe mist or vapour. Wash thoroughly after handling.

Wear protective gloves, protective clothing, eye protection and face protection.

Response Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Store in a corrosion resistant container with a resistant inner liner. Store locked up.

Disposal Dispose of container in accordance with local, regional, national and international regulations.

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
Sodium hypochlorite		7681-52-9	5-15	
Sodium hydroxide		1310-73-2	3	

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition commentsThe concentration ranges are provided due to batch-to-batch variability.

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	4. First-aid measures	
Inhalation	IF INHALED: remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE or doctor.	
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wa contaminated clothing before reuse. Specific treatment (see information on this label). Immedia call a POISON CENTRE or doctor.	
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.	
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTR doctor.	
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.	
	5. Fire-fighting measures	
Suitable extinguishing media	Treat for surrounding material.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.	
Hazardous combustion products	May include and are not limited to: Oxides of sodium. Hydrogen chloride. Chlorine gas. Oxygen.	
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
	6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Use water spray to reduce vapours or divert vapour cloud drift. Prevent entry into waterways, sewer, basements or confined areas.	
	Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.	
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Do not discharge into lakes, streams, ponds or public waters.	
	7. Handling and storage	
Precautions for safe handling	DANGER CORROSIVE Use only with adequate ventilation. Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Keep container tightly closed. Wear appropriate personal protective equipment when handling this product. Use good industrial hygiene practices in handling this material. When using do not eat or drink.	
Conditions for safe storage	Store locked up. Store in corrosive resistant container with a resistant inner liner. Keen only in the	

Store locked up. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Do not freeze. Store in a tightly closed container in a cool, dry, well ventilated and dark place away from incompatible materials. Keep out of reach of children.

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Conditions for safe storage, including any incompatibilities

8. Exposure controls/Personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

 Components
 Type
 Value

 Sodium hydroxide (CAS
 Ceiling
 2 mg/m3

1310-73-2)

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

 Components
 Type
 Value

 Sodium hydroxide (CAS
 Ceiling
 2 mg/m3

1310-73-2)

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and

Safety Regulation 296/97, as amended)

ComponentsTypeValueSodium hydroxide (CAS
1310-73-2)Ceiling2 mg/m3

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

Canada. Quebec OELs. (Ministry of Labour - Regulation Respecting the Quality of the Work Environment)

ComponentsTypeValueSodium hydroxide (CAS 1310-73-2)Ceiling2 mg/m3

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

ComponentsTypeValueSodium hydroxide (CAS
1310-73-2)Ceiling2 mg/m3

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Exposure guidelines Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Neoprene, Butyl rubber., PVC, Viton™, or Saranex®

Gloves. Confirm with a reputable supplier first.

Other Wear appropriate chemical resistant clothing. Neoprene. Butyl rubber. PVC. Viton™. or Saranex®

boots and protective suit As required by employer code.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear Physical state Liquid.

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Form Liquid

Colour Yellow - Yellowish green

Odour **Pungent** Odour threshold Not available. 12 - 14 @25°C Ηq -27.22 °C (-17 °F) Melting point/freezing point

Initial boiling point and boiling

range

Not available.

Flash point Not applicable **Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable

Flammability limit - upper

(%)

Not applicable

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper

(%)

12 mmHg @20°C Vapour pressure Vapour density Not available. Relative density Not available.

Solubility(ies)

Completely miscible Solubility (Water)

Partition coefficient (n-octanol/water)

Not available.

Not applicable **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity

Other information

Not explosive. **Explosive properties Oxidising properties** Not oxidising.

10. Stability and reactivity

Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive Reactivity

to metals.

Chemical stability Stable under recommended storage conditions. Possibility of hazardous Hazardous polymerisation does not occur.

reactions

Conditions to avoid Contact with incompatible materials. Do not mix with other chemicals. High heat, sunlight and

ultra-violet light.

Incompatible materials Strong acids. Strong oxidising agents. Metals. Nitrogen compounds. Iron Copper. Nickel. organic

materials

Hazardous decomposition

products

May include and are not limited to: Oxides of sodium. Hydrogen chloride. Chlorine gas. Oxygen.

Decomposition rate increases as it is heated

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. May cause stomach distress, nausea or vomiting.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity Causes burns.

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Sodium hydroxide (CAS 1310-73-2)

Acute Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Rabbit 325 mg/kg, ECHA

Sodium hypochlorite (CAS 7681-52-9)

AcuteDermal

LD50 Rabbit > 20000 mg/kg, ECHA

> 10000 mg/kg, ECHA

Inhalation

LC50 Rat > 10.5 mg/L, 1 Hours, ECHA

Oral

LD50 Mouse 5800 mg/kg

Rat 8910 mg/kg, ECHA 1100 mg/kg, ECHA

5.2 %, ECHA

Skin corrosion/irritation Causes severe skin burns and eye damage.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema valueNot available.Recover daysNot available.

Respiratory or skin sensitisation

Canada - Alberta OELs: Irritant

Sodium hydroxide (CAS 1310-73-2) Irritant

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicity Non-hazardous by WHMIS criteria.

Carcinogenicity Non-hazardous by WHMIS criteria. See below.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium hypochlorite (CAS 7681-52-9) Volume 52 - 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity - Not classified.

repeated exposure

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Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

Further information Not available.

12. Ecological information

Ecotoxicity See below

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Ecotoxicological data

Components Species Test results

Sodium hydroxide (CAS 1310-73-2)

Aquatic

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/L, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/L. 96 hours

Sodium hypochlorite (CAS 7681-52-9)

Crustacea EC50 Daphnia 2.1 mg/L, 48 Hours

Aquatic

Fish LC50 Chinook salmon (Oncorhynchus 0.038 - 0.065 mg/L, 96 hours

tshawytscha)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations. Review

federal, provincial, and local government requirements prior to disposal.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

General Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections

2.1-2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical

name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1791

Proper shipping name HYPOCHLORITE SOLUTION

Hazard class 8
Packing group III

TDG



15. Regulatory information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

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Precursor Control Regulations

Not regulated.

WHMIS status Controlled

International regulations

Inventory status

Country(s) or region Inventory Name On Inventory (Yes/No)*

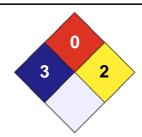
CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information

LEGEND		
Severe	4	
Serious	3	
Moderate	2	
Slight	1	
Minimal	0	

HEALTH / 3
FLAMMABILITY 0
PHYSICAL HAZARD 2
PERSONAL
PROTECTION X



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Version No. 02

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Disclaimer Information contained herein was obtained from sources considered technically accurate and

reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages

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