



Revision Date Aug-29-2018

Item #15935

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name PVS Minibulk Sodium Hypochlorite 12.5% Solution
UN/ID No. UN1791
Synonyms Bleach, PVS Minibulk Sodium Hypochlorite 12.5% Solution
Recommended Use Pesticide
Uses advised against IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PESTICIDE IN A MANNER INCONSISTENT WITH ITS LABELING. SEE THE FULL LABEL FOR DETAILS.

Company Name

PVS Minibulk, Inc.
10900 Harper Ave.
Detroit, MI 48213
313-921-1200

24 Hour Emergency Phone Number CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

| | |
|-----------------------------------|------------|
| Skin corrosion/irritation | Category 1 |
| Serious eye damage/eye irritation | Category 1 |

Emergency Overview

DANGER

Hazard statements

Physical hazards

Hazardous to humans and domestic animals

CORROSIVE, May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Do not get in eyes, on skin or clothing. Wear safety glasses or goggles and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing vapors. **ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. **STRONG OXIDIZING AGENT:** Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine feces, etc.) will release chlorine gas, which is irritating to eyes, lungs, and mucous membranes. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.



Precautionary statements

Prevention

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Immediately call a POISON CENTER or doctor/physician

Response

PVS Minibulk Sodium Hypochlorite 12.5% Solution

Storage Disposal

- Specific treatment (see section 4 on this Safety Data Sheet)
- Store locked up
- Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known.

Other Information

Other hazards

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

General advice

Keep out of reach of children

Eye contact

• Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a Poison Control Center or doctor for treatment advice.

Skin contact

• Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

Inhalation

- Remove to fresh air
- Call a physician or poison control center immediately
- If not breathing, give artificial respiration
- If breathing is labored, administer oxygen

Ingestion

• Call a Poison Control Center or doctor immediately for treatment advice. Have person drink large amounts of water. Do not induce vomiting unless told to do so by the Poison Control Center or a doctor. Do not give anything by mouth to an unconscious person. Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment. For emergency information on product, Call your poison control center at 1-800-222-1222.

Note to physician

- Probable mucosal damage may contraindicate the use of gastric lavage

Self-protection for first aid personnel

- Use personal protective equipment as required
- Avoid contact with skin, eyes or clothing

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

- Dry chemical, CO₂, water spray or alcohol-resistant foam
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable extinguishing media

- Caution: Use of water spray when fighting fire may be inefficient
- Do not use a solid water stream as it may scatter and spread fire

Specific hazards arising from the chemical

- The product causes burns of eyes, skin and mucous membranes
- Thermal decomposition can lead to release of irritating and toxic gases and vapors
- In the event of fire and/or explosion, do not breathe fumes

Protective equipment and precautions for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing

Flammable properties Explosive properties

- No information available
- No information available

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal precautions | <ul style="list-style-type: none">• Use personal protective equipment as required• Evacuate personnel to safe areas• Avoid contact with skin, eyes or clothing• Keep people away from and upwind of spill/leak |
| Environmental precautions | <ul style="list-style-type: none">• For small spills, absorb material with clay absorbent or other compatible material. Dispose of the waste material according to local, state and governmental requirements.• For large spills, contain the material using barriers of absorbent pigs, clay absorbent or earth dams. |
| Methods for cleaning up | <ul style="list-style-type: none">• Soak up with inert absorbent material• Clean contaminated surface thoroughly• Dike far ahead of liquid spill for later disposal• Take up mechanically, placing in appropriate containers for disposal• Prevent product from entering drains• Dam up• After cleaning, flush away traces with water |
| Other Information | <ul style="list-style-type: none">• No information available |

7. HANDLING AND STORAGE

| | |
|--------------------------------|--|
| Advice on safe handling | <ul style="list-style-type: none">• Use personal protective equipment as required• Ensure adequate ventilation, especially in confined areas• Avoid contact with skin, eyes or clothing• In case of insufficient ventilation, wear suitable respiratory equipment• Use only with adequate ventilation and in closed systems |
| Storage Conditions | <ul style="list-style-type: none">• PESTICIDE STORAGE: Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water.• PESTICIDE DISPOSAL: Product or Rinsate that cannot be used must be diluted with water before disposal in a sanitary sewer.• CONTAINER HANDLING: REFILLABLE CONTAINER: Refill this container with sodium hypochlorite, only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate the container vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. NON-REFILLABLE CONTAINER, 5 GALLONS OR LESS: Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container $\frac{1}{4}$ full with water and recap. Shake container for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use of disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.• STORAGE AND DISPOSAL: |
| Incompatible materials | Incompatible with strong acids and bases, Incompatible with oxidizing agents |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|-----------------------------|--|
| Engineering Controls | Ensure adequate ventilation, especially in confined areas. |
|-----------------------------|--|

Individual protection measures, such as personal protective equipment

| | |
|-------------------------------|---|
| Respiratory protection | <ul style="list-style-type: none">• A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator. |
| Eye/Face protection | <ul style="list-style-type: none">• Tight sealing safety goggles |

PVS Minibulk Sodium Hypochlorite 12.5% Solution

- Face protection shield

Skin and body protection

- Wear suitable protective clothing
- Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact

General Hygiene Considerations

- When using do not eat, drink or smoke
- Wash contaminated clothing before reuse
- Keep away from food, drink and animal feeding stuffs
- Contaminated work clothing should not be allowed out of the workplace
- Regular cleaning of equipment, work area and clothing is recommended
- Avoid contact with skin, eyes or clothing
- Take off all contaminated clothing and wash it before reuse
- Wear suitable gloves and eye/face protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|----------------|--|
| Physical state | Liquid |
| Appearance | No information available |
| Color | colorless or slight yellow, yellow green |
| Odor | Chlorine |
| Odor threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------|------------------------------------|-------------------------|
| pH | 12 | 10% w/w with D.I. water |
| Melting point/Freezing Point | No information available | |
| Boiling point / boiling range | No information available | |
| Flash point | No information available | |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability limit (%) | No information available | |
| Lower flammability limit (%): | No information available | |
| Vapor pressure | 1.6 | |
| Vapor density | No information available | |
| Specific Gravity | 1.21 | |
| Water solubility | Miscible in water | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |
| <u>Other Information</u> | | |
| Softening point °C | No information available | |
| Molecular weight | No information available | |
| VOC Content (%) | No information available | |
| Density | No information available | |
| Bulk density | 10.0914 Pounds per gallon (lb/gal) | |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Stability | • Stable under recommended storage conditions |
| Conditions to avoid | • Exposure to air or moisture over prolonged periods |
| Incompatible materials | Incompatible with strong acids and bases, Incompatible with oxidizing agents |
| Hazardous Decomposition Products | • Thermal decomposition can lead to release of irritating and toxic gases and vapors |

PVS Minibulk Sodium Hypochlorite 12.5% Solution

Possibility of Hazardous Reactions • None under normal processing and storage

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|-------------------------------------|---|
| Principle Routes of Exposure | Inhalation, Skin contact, Eye contact |
| Inhalation | May cause irritation of respiratory tract. Avoid breathing vapors or mists. |
| Ingestion | May be harmful if swallowed. |
| Skin contact | May cause skin irritation and/or dermatitis. |
| Eye contact | Contact with eyes may cause irritation. |

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|---------------------------------|---|
| Sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. <i>IARC (International Agency for Research on Cancer)</i> <i>Not classifiable as a human carcinogen</i> |
| Reproductive toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| Chronic toxicity | Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects
0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability No information available.

Bioaccumulation No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

| | |
|-------------------------------|--|
| Disposal of wastes | • Dispose of in accordance with federal, state and local regulations • Dispose of hazardous waste in a RCRA licensed facility |
| Contaminated packaging | • Do not reuse container |
| US EPA Waste Number | • D002 |

14. TRANSPORT INFORMATION

DOT

PVS Minibulk Sodium Hypochlorite 12.5% Solution

| | |
|---------------------------------|---|
| Proper shipping name | Hypochlorite solutions |
| Hazard Class | 8 |
| UN/ID No. | UN1791 |
| Packing Group | III |
| RQ (lbs)(dry) | Sodium hypochlorite: RQ kg= 45.40 |
| RQ as is (lbs)(wet) | 800 |
| Description | UN1791, Hypochlorite solutions, , 8, III, RQ |
| Special Provisions | IB3, N34, T4, TP2, TP24 |
| Marine pollutant | This product contains a chemical which is listed as a marine pollutant according to DOT |
| Emergency Response Guide Number | 154 |

Transport Canada

| | |
|----------------------|---|
| UN/ID No. | UN1791 |
| Proper shipping name | HYPOCHLORITE SOLUTION |
| Hazard Class | 8 |
| Packing Group | III |
| Description | UN1791, Hypochlorite solution, , 8, III |

IATA

| | |
|----------------------|-----------------------|
| UN/ID No. | UN1791 |
| Proper shipping name | HYPOCHLORITE SOLUTION |
| Hazard Class | 8 |
| Packing Group | III |
| ERG Code | 8L |
| Special Provisions | A3, A803 |

IMDG

| | |
|-------------------------|--|
| UN/ID No. | UN1791 |
| Proper shipping name | HYPOCHLORITE SOLUTION |
| Hazard Class | 8 |
| Subsidiary hazard class | P |
| Packing Group | III |
| EmS-No. | F-A, S-B |
| Special Provisions | 223 |
| Marine pollutant | This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO |

15. REGULATORY INFORMATION**US Federal Regulations****SARA 311/312 Hazard Categories**

| | |
|-----------------------------------|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire hazard | Yes |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

U.S. - TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant New Use Rules (SNURs)**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Canada**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR

PVS Minibulk Sodium Hypochlorite 12.5% Solution
WHMIS Classification Non-controlled

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number EPA Est. No. 93726-TX-1
EPA Pesticide Label EPA Reg. No. 62255-20001

International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| AICS | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION

| | | | | |
|--------------------|-------------------------|-----------------------|---------------------------|--|
| <u>NFPA</u> | Health hazards 3 | Flammability 0 | Instability 1 | Physical and Chemical Properties OX |
| <u>HMIS</u> | Health hazards 3 | Flammability 0 | Physical hazards 1 | Personal protection D |

| | |
|--------------------------|---------------------------|
| Item # | 15935 |
| Safety Data Sheet | - |
| Revision Date | Aug-29-2018 |
| Issue Date | Aug-29-2018 |
| Version | 1 |
| Revision Note | *** Updated value on SDS. |

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End of Safety Data Sheet