

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 12.14.2014

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Sodium Hypochlorite,13%

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : Sodium Hypochlorite,13%

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25552

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Corrosive

Corrosive to metals, category 1
Serious eye damage, category 1



Irritant

Skin irritation, category 2

Eye corr. 1

Skin Irrit. 2

Aquatic Acute 2

Aquatic Chronic 3

Metal Corr. 1

Signal word :Danger

Hazard statements:

May be corrosive to metals

Causes serious eye damage

Causes skin irritation

Toxic to aquatic life with long lasting effects

Precautionary statements:

If medical advice is needed, have product container or label at hand

Keep out of reach of children

Read label before use

Wear protective gloves/protective clothing/eye protection/face protection

Wash skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing

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Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with soap and water
Specific treatment (see supplemental first aid instructions on this label)
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Collect spillage
Absorb spillage to prevent material damage
Store locked up
Store in corrosive resistant stainless steel container with a resistant inner liner
Dispose of contents and container to an approved waste disposal plant

Other Non-GHS Classification:

WHMIS



NFPA/HMIS



NFPA SCALE (0-4)

| | |
|---------------------|---|
| Health | 3 |
| Flammability | 0 |
| Physical Hazard | 1 |
| Personal Protection | X |

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

| Ingredients: | | |
|---------------|---------------------|--------|
| CAS 7681-52-9 | Sodium Hypochlorite | 12.5 % |
| CAS 7732-18-5 | Deionized Water | 87.5 % |

Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

After skin contact: Take off contaminated clothing and shoes immediately. Wash affected area with soap and water. Seek medical attention if irritation, discomfort persist.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Immediately get medical assistance.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of

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water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea,Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

For safety reasons unsuitable extinguishing agents: Carbon dioxide.Carbon dioxide.

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.Thermal decomposition can lead to release of irritating gases and vapors.Sodium oxides.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container.Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.Keep away from ignition sources. Protect from heat.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures.Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.Collect liquid and dilute with water. Neutralize with dilute acid solutions. Decant water to drain with excess water. Absorb with suitable material. Dispose of remaining solid as normal refuse. Always obey local regulations.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Absorb spillage to prevent material damage due to corrosiveness to metal. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Do not mix with acids.Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents.Store in cool, dry conditions in well sealed containers. Store with Corrosives.

SECTION 8 : Exposure controls/personal protection

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Control Parameters:

No applicable occupational exposure limits

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Protection of skin:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection:

Safety glasses with side shields or goggles.

General hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9 : Physical and chemical properties

| | | | |
|---|---------------------------------|--|---|
| Appearance (physical state,color): | Clear light yellow green liquid | Explosion limit lower: Explosion limit upper: | Non Explosive Non Explosive |
| Odor: | chlorine like | Vapor pressure: | 14mmHg @ 20C |
| Odor threshold: | Not Determined | Vapor density: | >1 |
| pH-value: | Not Determined | Relative density: | Approx 1 |
| Melting/Freezing point: | Approx 0°C | Solubilities: | Soluble in Water |
| Boiling point/Boiling range: | Decomposes | Partition coefficient (n-octanol/water): | Not Determined |
| Flash point (closed cup): | Not Determined | Auto/Self-ignition temperature: | Not Determined |
| Evaporation rate: | Not Determined | Decomposition temperature: | Not Determined |
| Flammability (solid,gaseous): | Not Determined | Viscosity: | a. Kinematic:Not Determined b. Dynamic: Not Determined |
| Density: Not Determined | | | |

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SECTION 10 : Stability and reactivity

Reactivity:Nonreactive under normal conditions.

Chemical stability:Decomposes slowly at normal temperatures releasing low concentrations of corrosive chlorine gas. Decomposition is influenced by temperature, pH, exposure to light, concentration, ionic strength, and presence of metals

Possible hazardous reactions:None under normal processing.

Conditions to avoid:Incompatible materials, excess heat. light.Combustible materials. Excess heat.

Incompatible materials:Metals, ammonia, strong reducing agents, methanol, strong acids, formic acid, amines, phenylacetonitrile, ammonium salts

Hazardous decomposition products:sodium oxides, hydrogen

SECTION 11 : Toxicological information

Acute Toxicity: No additional information.

Chronic Toxicity: No additional information.

Corrosion Irritation:

| | | |
|----------------|-----------|---------------------------|
| Ocular: | 1310-73-2 | Rabbit: Corrosive to eyes |
|----------------|-----------|---------------------------|

| | | |
|----------------|-----------|----------------------|
| Dermal: | 1310-73-2 | Rabbit: Causes Burns |
|----------------|-----------|----------------------|

| | | |
|-----------------------|----------------------------|--|
| Sensitization: | No additional information. | |
|-----------------------|----------------------------|--|

| | | |
|------------------------------------|----------------------------|--|
| Single Target Organ (STOT): | No additional information. | |
|------------------------------------|----------------------------|--|

| | | |
|----------------------------|----------------------------|--|
| Numerical Measures: | No additional information. | |
|----------------------------|----------------------------|--|

| | | |
|-------------------------|--|--|
| Carcinogenicity: | There are no known carcinogenic chemicals in this product: | |
|-------------------------|--|--|

| | | |
|----------------------|----------------------------|--|
| Mutagenicity: | No additional information. | |
|----------------------|----------------------------|--|

| | | |
|-------------------------------|----------------------------|--|
| Reproductive Toxicity: | No additional information. | |
|-------------------------------|----------------------------|--|

SECTION 12 : Ecological information

Ecotoxicity Persistence and degradability: Readily degradable in the environment.

Bioaccumulative potential: Not Bioaccumulative.

Mobility in soil: -1.87 (water)

Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.Neutralize with dilute acid solutions.

SECTION 14 : Transport information

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UN-Number

1791

UN proper shipping name

Hypochlorite Solutions

Transport hazard class(es)



Class:

8 Corrosive substances

Packing group:III

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7681-52-9 Sodium Hypochlorite 100 lb

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

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SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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