SAFETY DATA SHEET

Sodium chlorite solution

Version 1.0

Revision Date 2015/07/07

1. Identification

Product identifier used on the label

Sodium chlorite solution

Recommended use of the chemical and restriction on use

Recommended use*: Water treatment, leather tanning, metal surface treatment, textile bleaching, etc

* The “Recommended use” identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

DNG CHEMICALS INC

1F,NO.1388 SHANXI NORTH ROAD,PUTONG DISTRICT,

SHANGHAI 200060 CHINA

Telephone: 86 21 61498001

Emergency telephone number

Telephone: 86 21 61498001

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Ox. Liq. 1 Oxidizing Liquids

Acute Tox. 4 Acute toxicity, oral

Eye Dam. 1 Serious eye damage/eye irritation

STOT RE 2 Specific target organ toxicity, repeated exposure

Aquatic Acute 1 Hazardous to the aquatic environment, acute hazard

Label elements

Pictogram:

Signal Word:
Danger
Hazard Statement:
H271 May cause fire or explosion; strong oxidizer
H302 Harmful if swallowed
H318 Causes serious eye damage
H373 May cause damage to organs(spleen) through prolonged or repeated exposure
H400 Very toxic to aquatic life

Precautionary Statements (Prevention):
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220 Keep away from clothing and other combustible materials.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P283 Wear fire resistant or flame retardant clothing.
P264 Wash exposed skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P260 Do not breathe dusts or mists.
P273 Avoid release to the environment.

Precautionary Statements (Response):
P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P371 + P380 +
P375
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P370 + P378 In case of fire: Use carbon dioxide (CO_2), powder, alcohol-resistant foam to extinguish.
P301 + P312 IF SWALLOWED: Call a doctor if you feel unwell.
P330 Rinse mouth.
P310 Immediately call a doctor.
P305 + P351 +
P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.
Precautionary Statements (Storage):
P420 Store separately..
Precautionary Statements (Disposal):
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

The product contains:

CAS Number	Content (W/W)	Chemical name
7758-19-2	30.0-35.0 %	sodium chlorite
7775-09-9	0.1-0.5 %	sodium chlorate
1310-73-2	0.1-0.5 %	sodium hydroxide
497-19-8	0.1-0.5 %	sodium carbonate

4. First-Aid Measures

General advice:

Get medical attention if any discomfort continues

If inhaled:

Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

If on skin:

Immediately call a POISON CENTER or doctor/physician. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower.

If in eyes:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If swallowed:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

5. Fire-Fighting Measures

Suitable extinguishing media:

Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media for safety reasons:

No data available.

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

Substance/product is an oxidizing agent and can supply oxygen to stimulate or accelerate the combustion of organic or other combustible substances/products. Fight fire from maximum distance.

6. Accidental release measures

Personal precautions:

Use personal protective equipment. Keep from contacting skin or eyes. Avoid breathing vapors,

mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Place contaminated material into suitable, closed containers for disposal. After spillage has been collected, area may be flushed with water or wet-brushed. Avoid letting spilled material evaporate to dryness. Dried material can ignite upon contact with combustibles. Ensure adequate ventilation.

7. Handling and Storage

Handling

General advice:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Take any precaution to avoid mixing with combustibles.Do not get in eyes, on skin, or on clothing. Do not breathe dust. Use only outdoors or in a well-ventilated area.

Protection against fire and explosion:

Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire. Risk of fire and explosion on contact with reducing agents or organic materials.

Storage

General advice:

Store in a cool, dry, well-ventilated location. Separate from oxidizing materials, combustibles, acids, ammonia, and amines. Immediately remove and properly dispose of any spilled material.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

No data available

Personal protective equipment

Respiratory protection:

Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Handle with gloves made from Neoprene or Nitrile. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Eye protection:

Safety glasses with side-shields. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US).

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form: liquid

Color: clear to light yellow

Odor: slight chlorine

pH: no data available

Melting point/freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Upper/lower flammability or explosive limits: no data available

Vapor pressure: no data available

Vapor density: no data available

Density: no data available

Solubility in water: soluble

Partition coefficient:n-octanal/water: no data available

Auto-ignition temperature: no data available

Decomposition temperature; no data available

Viscosity no data available

10. Stability and reactivity

Conditions to avoid:

Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

Substances to avoid:

Sulfites. Strong reducing agents. Metals. Ammonia. Amines.

Hazardous reactions:

Sodium chlorite reacts with acids to form spontaneously explosive chlorine dioxide gas (ClO_2).

Hazardous decomposition products:

Chlorine gas, Chlorine Dioxide and Sodium Oxides.

11. Toxicological information

Primary routes of exposure

Inhalation and ingestion. Eye contact. Skin contact

Acute Toxicity/Effects

Acute toxicity

Oral

Harmful if swallowed.

Inhalation

No data available

Dermal

No data available.

Skin Corrosion/Irritation

Causes severe skin burns and eye damage.

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Eye damage/irritation

Causes serious eye damage

Sensitization

No applicable information available.

Chronic Toxicity/Effects

Repeated dose toxicity

No applicable information available.

Genetic toxicity

No applicable information available.

Carcinogenicity

No applicable information available.

Reproductive toxicity

No applicable information available.

Specific target organ toxicity(single exposure)

No applicable information available.

Specific target organ toxicity(repeated exposure)

May cause damage to organs(spleen) through prolonged or repeated exposure.

Aspiration Hazard

No aspiration hazard expected.

Other Information

No applicable information available.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section

11.Further important symptoms and effects are so far not known.

12. Toxicological information

Toxicity

Very toxic to aquatic life.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

No applicable information available.

Bioaccumulative potential

Assessment bioaccumulation potential

No applicable information available.

Mobility in soil

Assessment transport between environmental compartments

No applicable information available..

Additional information

No applicable information available.

Other ecotoxicological advice:

No data available.

13. Disposal considerations

Waste disposal of substance:

Hand over to disposers of hazardous waste. Dispose of in accordance with national, state and local regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

14. Transport Information

Land transport

USDOT

Hazard class: 8

Packing group: II

ID number: UN 1908

Proper shipping name: CHLORITE SOLUTION

Sea transport

IMDG

Hazard class: 8

Packing group: II

ID number: UN 1908

Proper shipping name: CHLORITE SOLUTION

Air transport

IATA/ICAO

Hazard class: 8

Packing group: II

ID number: UN 1908

Proper shipping name: CHLORITE SOLUTION

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute; Reactivity

NFPA Hazard codes:

Health : 3 Fire: 0 Reactivity: 1 Special:OX

HMIS III rating

Health: 3 Flammability: 0 Physical hazard: 1

16. Other Information

Revision Date 2015/07/07

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with

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