

Safety Data Sheets

1. Identification of the substance/mixture and of the company/undertaking

Product identifier :

Product name : Sodium chlorite

Product code(SDS NO) : 10055jis_E-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier : JUNSEI CHEMICAL CO., LTD.

Address : 1-6, Ohmano-Cho, Koshigaya, Saitama 343-0844, Japan

Competent section : Quality Assurance Department

Telephone number : +81-48-986-6161

FAX : +81-48-989-2787

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2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

PHYSICAL HAZARDS

Oxidizing solids : Category 2

HEALTH HAZARDS

Acute toxicity Oral : Category 3

Acute toxicity Dermal : Category 2

Acute toxicity inhalation : Category 2

Skin corrosion/irritation : Category 2

Serious eye damage /eye irritation : Category 2A

Germ cell mutagenicity : Category 2

Specific target organ toxicity-single exposure : Category 2

Specific target organ toxicity-repeated exposure : Category 2

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment-acute toxicity : Category 1

Hazardous to the aquatic environment-chronic toxicity : Category 1

(Note) GHS classification without description : Not applicable/Out of classification/Not classifiable

Label elements



Signal word : Danger

HAZARD STATEMENT

May intensify fire; oxidizer

Toxic if swallowed

Fatal in contact with skin

Fatal if inhaled

Causes skin irritation

Causes serious eye irritation

Suspected of causing genetic defects

May cause damage to organs after single exposure

May cause damage to organs following repeated exposure

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT

Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Avoid release to the environment.
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Keep/Store away from clothing/combustible materials.
- Take any precaution to avoid mixing with combustibles and/or other incompatible materials.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- In case of inadequate ventilation wear respiratory protection (as specified by the manufacturer/supplier or the competent authority.)
- Use only outdoors or in a well-ventilated area.
- Do not get in eyes, on skin, or on clothing.
- Wash contaminated parts thoroughly after handling.
- Wear protective gloves or protective clothing.
- Wear protective gloves.
- Wear protective gloves and face protection.
- Wear eye protection/face protection.
- Use personal protective equipment as required.
- Do not eat, drink or smoke when using this product.

Response

- In case of fire: Use appropriate media other than water for extinction.
- Collect spillage.
- Get medical advice/attention if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.
- Immediately call a POISON CENTRE or doctor/physician.
- IF exposed or concerned: Call a POISON CENTER or doctor/physician.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation occurs: Get medical advice/attention.
- Take off immediately all contaminated clothing and wash it before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- Rinse mouth.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

Disposal

- Dispose of contents/container in accordance with local/national regulation.

Physical and Chemical hazards

- Oxidizing material. Organic or combustible material may catch fire in contact with it.

3. Composition/information on ingredients

Substance/Preparation :

Substances

- Ingredient name: Sodium chlorite
- content(%): 78.0 <
- Chemical formula: ClNaO₂
- Chemicals No, Japan: 1-238
- CAS No.: 7758-19-2

MW:90.44

ECNO:231-836-6

4. First-aid measures

Descriptions of first-aid measures

General measures

- Get medical attention/advice if you feel unwell.
- IF exposed or concerned: Get medical attention/advice.
- Immediately call a POISON CENTRE or doctor/physician.
- IF exposed or concerned: Call a POISON CENTER or doctor/physician.

IF INHALED

- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

- Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- If skin irritation occurs: Get medical advice/attention.

IF IN EYES

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

- Rinse mouth.
- Immediately call a POISON CENTER or doctor/physician.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- Induce vomiting (ONLY IN CONSCIOUS PERSONS!).

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

- In case of fire, use water mist, water in large amounts .

Unsuitable extinguishing media

- Carbon dioxide

Specific hazards arising from the substance or mixture

- Containers may explode when heated.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.
- Not combustible but enhances combustion of other substances.

Advice for firefighters

Specific fire-fighting measures

- Evacuate non-essential personnel to safe area.
- Cool container with water spray.

Special protective equipment and precautions for fire-fighters

- Wear fire/flame resistant/retardant clothing.
- Wear cold insulating gloves/face shield/eye protection.
- Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Avoid release to the rivers, lakes, ocean, groundwater.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Do NOT absorb in saw-dust or other combustible absorbents.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire & explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep/Store away from clothing/combustible materials.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Avoid breathing dust, vapor, mist, or gas.

Safety Measures/Incompatibility

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Take any precaution to avoid mixing with combustibles/incompatible materials.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing or face protection.

Wear protective gloves.

Wear protective gloves and face protection.

Wear eye protection/face protection.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store in well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Store locked up.

8. Exposure controls/personal protection

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Wear positive pressure self-contained breathing apparatus (SCBA).

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Safety and Health measures

Do not get in eyes, on skin, or on clothing.

Wash ... thoroughly after handling.

Do not eat, drink or smoke when using this product.

Take off immediately all contaminated clothing and wash it before reuse.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties

Appearance : CRYSTALS OR CRYSTALLINE POWDER

Color : WHITE

odour data N.A.

pH data N.A.

Phase change temperature

Initial Boiling Point/Boiling point data N.A.

Melting point/Freezing point data N.A.

Decomposition temperature : 180~200°C

Flash point data N.A.

Auto-ignition temperature data N.A.

Explosive properties data N.A.

Vapor pressure data N.A.

Vapor density data N.A.

Specific gravity/Density : 2.5

Solubility

Solubility in water : 39 g/100 ml (17°C)

n-Octanol /water partition coefficient data N.A.

10. Stability and Reactivity

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

The substance is a strong oxidant. It reacts violently with combustible and reducing materials.

Reacts violently with acids, ammonium compounds, phosphorus, sulfur and sodium dithionate.

This generates explosion hazard.

Conditions to avoid

Contact with incompatible materials.

Open flames. Heat.

Incompatible materials

Acids, Reducing agents, Ammonium compounds, Phosphorus, Sulfur, Sodium dithionate.

Combustible substances

Hazardous decomposition products

Chlorides

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[GHS Cat. Japan, base data]
rat LD50 =165 mg/kg (RTECS, 2003)
Acute toxicity (Dermal)
[GHS Cat. Japan, base data]
rabbit LD50=107.2 mg/kg (IUCLID, 2000)
Acute toxicity (Inhalation)
[GHS Cat. Japan, base data]
mist : rat LC50=0.23 mg/L (RTECS, 2003)
Irritant properties
Skin corrosion/irritation
[GHS Cat. Japan, base data]
human :relatively stronger irritation (HSDB, 2002et al)
Serious eye damage /irritation
[GHS Cat. Japan, base data]
human/rabbit : irritating (ICSC(J), 2000)
No Allergenic and sensitizing effects data available
Germ cell mutagenicity
[GHS Cat. Japan, base data]
cat.2; mouse : IRIS, 2000
No Teratogenic effects data available
Carcinogenicity
IARC-Gr.3 : Not Classifiable as a Human Carcinogen
EPA "Cannot Be Determined" to be carcinogenic(1996)
No reproductive toxicity data available
Delayed and immediate effects and also chronic effects from short- and long-term exposure
STOT
STOT-single exposure
[cat.2]
[Japan published data]
respiratory apparatus/system; kidney (RTECS, 2003)
STOT-repeated exposure
[cat.2]
[Japan published data]
heart; blood (ATSDR, 2004; RTECS, 2003)
No Aspiration hazard data available

12. Ecological Information

Toxicity
Aquatic toxicity
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects
Aquatic acute toxicity component(s) data
[GHS Cat. Japan, base data]
Crustacea (Daphnia magna) LC50=0.0146mg/L/ 48hr (AQUIRE, 2003)
Water solubility
39 g/100 ml (17°C) (ICSC, 2000)
No Persistence and degradability data available
No Bioaccumulative potential data available

13. Disposal considerations

Waste treatment methods
Avoid release to the environment (- if this is not the intended use).

14. Transport Information

UN No, UN CLASS

UN number :1496

UN proper shipping name :SODIUM CHLORITE

Transport hazard class(es) :5.1

Packing group :II

ERG GUIDE NO :143

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

US major regulations

TSCA

Sodium chlorite

Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

GHS classification and labelling

Ox. Sol. 2 : H272 May intensify fire; oxidizer

Acute Tox. 3 : H301 Toxic if swallowed

Acute Tox. 2 : H310 Fatal in contact with skin

Acute Tox. 2 : H330 Fatal if inhaled

Skin Irrit. 2 : H315 Causes skin irritation

Eye Irrit. 2A : H319 Causes serious eye irritation

Muta. 2 : H341 Suspected of causing genetic defects

STOT SE 2 : H371 May causes damage to organs after single exposure

STOT RE 2 : H373 May causes damage to organs through prolonged or repeated exposure

Aquatic Acute 1 : H400 Very toxic to aquatic life

Aquatic Chronic 1 : H410 Very toxic to aquatic life with long lasting effects

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (4th ed., 2011), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2014 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

Chemical Risk Information Platform (CHRIP)(NITE) <http://www.safe.nite.go.jp/japan/db.html>

GHS Classification Guidance for Enterprises 2013 Revised Edition (August, 2013, METI)

Other information

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own



Sodium chlorite, JUNSEI CHEMICAL CO., LTD., 10055jis_E-1, 22/12/2014

purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

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