## Safety Data Sheet

According to Hazardous Products Regulation (SOR/2015-17)

| Revision date: 02.04 .2020 | Version: 6.3 | Print date: 02.04 .2020 |
| :--- | :--- | :--- |

## SECTION 1: Identification

## Product identifier

Trade name/designation:
Product No.:
Synonymes:
CAS No.:
Other means of identification:

HEPES sodium salt HIGH PURITY GRADE (Sodium thiosulfate pentahydrate) 0485
none/none
75277-39-3

## Relevant identified uses of the substance or mixture and uses advised against

| Recommended Use: | For Further Manufacturing Use Only |
| :--- | :--- |
| Uses advised against: | Not for Human or Animal Drug Use |

## Details of the supplier of the safety data sheet

## Supplier

## VWR International

| Street | 2360 Argentia Road |
| :--- | :--- |
| Postal code/City | Mississauga, Ontario |
|  | Canada L5N 5Z7 |

Telephone
+1-800-932-5000 toll-free within US/Canada
Telefax:
+1-610-728-2103

## Emergency phone number

Telephone $\quad+1-613-996-6666$ (Canutec, $24 \mathrm{hrs} /$ day, 7 days/week, Canada)

## Preparation Information

VWR International - Product Information Compliance
E-mail sds@vwr.com

## SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Classification according to Hazardous Products Regulation (SOR/2015-17)

This substance is classified as not hazardous according to Hazardous Products Regulation (SOR/2015-17)

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### 2.2 Label elements

## Labelling in accordance with (SOR/2015-17)

According to Hazardous Products Regulation (SOR/2015-17) the product does not have to be labelled.
Hazards not otherwise classified (HNOC)
Not regulated

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

| Substance name | HEPES sodium salt |
| :--- | :--- |
| Molecular formula | C8H17N2O4SNa |
| Molecular weight | $260.30 \mathrm{~g} / \mathrm{mol}$ |
| CAS No. | $75277-39-3$ |

## SECTION 4: First aid measures

### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended

## In case of inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

## In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.

## After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

## In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

### 4.2 Most important symptoms/effects, acute and delayed

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed no data available

### 4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

### 4.5 Information to physician

no data available

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## SECTION 5: Fire fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media
The product itself does not burn.
Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons
no restriction

### 5.2 Specific hazards arising from the chemical

In case of fire may be liberated:
Carbon monoxide
Carbon dioxide (CO2)
Nitrogen oxides (NOx)
Sulphur oxides

### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.
Protective equipment and precautions for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

## Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.
Do not inhale explosion and combustion gases.
Use water spray/stream to protect personnel and to cool endangered containers.
In case of fire: Evacuate area.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

### 6.4 Additional information

Clear spills immediately.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid:
Inhalation
Avoid contact with eyes and skin.
Use extractor hood (laboratory).
If handled uncovered, arrangements with local exhaust ventilation have to be used.
If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

### 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: Store between $15^{\circ} \mathrm{C}$ and $30^{\circ} \mathrm{C}$. Keep container tightly closed and in a well-ventilated place.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Engineering controls

## Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

## Personal protection equipment (PPE)

Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn.

## Eye/face protection

Eye glasses with side protection

## Skin protection

Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting to use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use.

## By short-term hand contact

| Suitable material: | NBR (Nitrile rubber) |
| :--- | :--- |
| Thickness of the glove material: | $0,12 \mathrm{~mm}$ |
| Breakthrough time (maximum wearing time): | $>480 \mathrm{~min}$ |
|  |  |
| By long-term hand contact | NBR (Nitrile rubber) |
| Suitable material: | $0,38 \mathrm{~mm}$ |
| Thickness of the glove material: | $>480 \mathrm{~min}$ |

## Respiratory protection

Usually no personal respirative protection necessary.

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## Additional information

Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

Environmental exposure controls
no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state:
Color:
(b) Odour:
(c) Odour threshold:
solid
white
no data available
no data available

## Safety relevant basic data

(d) pH :
(e) Melting point/freezing point:
(f) Initial boiling point and boiling range:
(g) Flash point:
(h) Evaporation rate:
(i) Flammability (solid, gas):
(j) Flammability or explosive limits Lower explosion limit: Upper explosion limit:
(k) Vapour pressure:
(l) Vapour density:
(m) Relative density:
( $n$ ) Solubility(ies) Water solubility ( $\mathrm{g} / \mathrm{L}$ ): Soluble ( $\mathrm{g} / \mathrm{L}$ ) in Ethanol:
(o) Partition coefficient: n-octanol/water:
(p) Auto-ignition temperature:
(q) Decomposition temperature:
(r) Viscosity Kinematic viscosity: Dynamic viscosity:
(s) Explosive properties:
(t) Oxidising properties:
no data available
$>105^{\circ} \mathrm{C}$
no data available
no data available no data available not applicable
no data available
no data available
no data available
no data available no data available
soluble $\left(20^{\circ} \mathrm{C}\right)$
no data available
no data available
no data available no data available
no data available
no data available
not applicable
not applicable
no data available
no data available
no data available
no data available no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

### 10.7 Additional information

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

## Acute effects

Acute oral toxicity:
no data available
Acute dermal toxicity:
no data available

Acute inhalation toxicity:
no data available
Irritant and corrosive effects
Primary irritation to the skin:
not applicable

Irritation to eyes:
not applicable
Irritation to respiratory tract:
not applicable

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## Respiratory or skin sensitization

In case of skin contact: not sensitising
In case of inhalation: not sensitising

## STOT-single exposure

not applicable
STOT-repeated exposure
not applicable

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

| no data <br> available | ACGIH | IARC | NTP | OSHA |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

## Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

## Reproductive toxicity

No indications of human reproductive toxicity exist.

## Aspiration hazard

not applicable

## Other adverse effects

no data available

## Additional information

no data available

## SECTION 12: Ecological information

### 12.1 Ecotoxicity

Fish toxicity:
no data available

Daphnia toxicity:
no data available

## Algae toxicity:

no data available

## Bacteria toxicity:

no data available

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### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

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

### 12.4 Mobility in soil:

no data available

### 12.5 Results of PBT/vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Other adverse effects

no data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

## Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.
Waste code product: no data available

Appropriate disposal / Package
Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.
Additional information
no data available

## SECTION 14: Transport information

Land transport (TDG)

No dangerous good in sense of this transport regulation.

## Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

## Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

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## SECTION 15: Regulatory information

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

Domestic Substance List:

## SECTION 16: Other information

Abbreviations and acronyms<br>ACGIH - American Conference of Governmental Industrial Hygiensts<br>DOT - Department of Transportation<br>IARC - International Agency for Research on Cancer<br>IATA-DGR - International Air Transport Association-Dangerous Goods Regulations<br>ICAO-TI - International Civil Aviation Organization-Technical Instructions<br>IMDG - International Maritime Code for Dangerous Goods<br>LTV - Long Term Value<br>NIOSH - National Institute for Occupational Safety and Health<br>NTP - National Toxicology Program<br>OSHA - Occupational Safety \& Health Administration<br>PBT - Persistent, Bioaccumulative and Toxic<br>PEL - Permissible Exposure Limit<br>STV - Short Term Value<br>SVHC - Substances of Very High Concern<br>TDG - Transport of Dangerous Goods<br>TLV - Threshold Limit Value<br>vPvB - very Persistent, very Bioaccumulative

## Additional information

Indication of changes:
general update

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guidance. The information in this document is based on the present state knowledge and is applicable to the product with regard to appropriate safty precautions. It does not represent any guarantee of the properties of the product. VWR International and his Affiliates shall not be held liable for any damage resulting from handling.

