

Printing date 05/02/2021 Reviewed on 05/02/2021

### 1 Identification

- · Product identifier
- · Trade name: Sodium periodate
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: Energy Chemical Co. Semnan No. 60, Golfam St, Africa Ave. TEHRAN 1915673641 IRAN
- · Information department: Product safety department.
- · Emergency telephone number: During normal opening times: +98 21 2205 2178

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS03 Flame over circle

Ox. Liq. 2 H272 May intensify fire; oxidizer.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS03

- · Signal word Danger
- · Hazard statements

May intensify fire; oxidizer.

· Precautionary statements

Keep away from heat.

Keep/Store away from clothing/combustible materials.

Take any precaution to avoid mixing with combustibles.

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

*In case of fire: Use for extinction: CO2, powder or water spray.* 

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 3Reactivity = 0

The substance possesses oxidizing properties.

(Contd. on page 2)

Printing date 05/02/2021 Reviewed on 05/02/2021

#### Trade name:Sodium periodate

· HMIS-ratings (scale 0 - 4)

(Contd. of page 1)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.

#### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

7790-28-5 sodium periodate

>50.0%

#### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Contd. on page 3)

Printing date 05/02/2021 Reviewed on 05/02/2021

Trade name: Sodium periodate

| PAC-1:                     |           |
|----------------------------|-----------|
| 7790-28-5 sodium periodate | 0.19 mg/m |
| · PAC-2:                   |           |
| 7790-28-5 sodium periodate | 2.1 mg/m  |

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

At this time, the other constituents have no known exposure limits.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 4)

Reviewed on 05/02/2021 Printing date 05/02/2021

Trade name: Sodium periodate

(Contd. of page 3)

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Goggles recommended during refilling.

| 9 Physical and chemical proper         | rties                                         |  |  |  |  |  |
|----------------------------------------|-----------------------------------------------|--|--|--|--|--|
| · Information on basic physical and    | chemical properties                           |  |  |  |  |  |
| · General Information                  |                                               |  |  |  |  |  |
| · Appearance:                          |                                               |  |  |  |  |  |
| Form:                                  | Powder                                        |  |  |  |  |  |
| Color:                                 | White                                         |  |  |  |  |  |
| · Odor:                                | Characteristic                                |  |  |  |  |  |
| · Odor threshold:                      | Not determined.                               |  |  |  |  |  |
| · pH-value:                            | Not determined.                               |  |  |  |  |  |
| · Change in condition                  |                                               |  |  |  |  |  |
| Melting point/Melting range:           | Undetermined.                                 |  |  |  |  |  |
| Boiling point/Boiling range:           | Undetermined.                                 |  |  |  |  |  |
| · Flash point:                         | Not applicable.                               |  |  |  |  |  |
| · Flammability (solid, gaseous):       | Not applicable.                               |  |  |  |  |  |
| · Decomposition temperature:           | Not determined.                               |  |  |  |  |  |
| · Auto igniting:                       | Product is not selfigniting.                  |  |  |  |  |  |
| · Danger of explosion:                 | Product does not present an explosion hazard. |  |  |  |  |  |
| · Explosion limits:                    |                                               |  |  |  |  |  |
| Lower:                                 | Not determined.                               |  |  |  |  |  |
| Upper:                                 | Not determined.                               |  |  |  |  |  |
| · Vapor pressure:                      | Not determined.                               |  |  |  |  |  |
| · Density:                             | Not determined.                               |  |  |  |  |  |
| · Relative density                     | Not determined.                               |  |  |  |  |  |
| · Vapor density                        | Not determined.                               |  |  |  |  |  |
| · Evaporation rate                     | Not determined.                               |  |  |  |  |  |
| · Solubility in / Miscibility with     |                                               |  |  |  |  |  |
| Water:                                 | Not miscible or difficult to mix.             |  |  |  |  |  |
| · Partition coefficient (n-octanol/wat | t <b>er</b> ): Not determined.                |  |  |  |  |  |
| · Viscosity:                           |                                               |  |  |  |  |  |
| Dynamic:                               | Not determined.                               |  |  |  |  |  |
| Kinematic:                             | Not determined.                               |  |  |  |  |  |
| · Solvent content:                     |                                               |  |  |  |  |  |
| VOC content: 0.00 %                    |                                               |  |  |  |  |  |
|                                        | 0.0  g/l  /  0.00  lb/gl                      |  |  |  |  |  |
| · Other information                    | No further relevant information available.    |  |  |  |  |  |

Printing date 05/02/2021 Reviewed on 05/02/2021

Trade name: Sodium periodate

(Contd. of page 4)

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

#### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

US

Printing date 05/02/2021 Reviewed on 05/02/2021

Trade name: Sodium periodate

(Contd. of page 5)

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

| 7 4 7 |          |                     | • 1  | •        | y •    |
|-------|----------|---------------------|------|----------|--------|
| 4     | rans     | nort                | าทา  | orma     | non    |
| T 1 T | . I WILD | $\rho \sigma r \nu$ | וטוט | OI III W | VI UII |

|  |  | UN | I-N | umb | er |
|--|--|----|-----|-----|----|
|--|--|----|-----|-----|----|

· DOT, IMDG, IATA not re

not regulated

· UN proper shipping name

· DOT, IMDG, IATA not regulated

- · Transport hazard class(es)
- · DOT, IMDG, IATA
- · Class not regulated
- · Packing group
- · DOT, IMDG, IATA not regulated
- · Environmental hazards: Not applicable.
- · Special precautions for user Not applicable.
- · Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN ''Model Regulation'': not regulated

#### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
- · 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.

(Contd. on page 7)

Printing date 05/02/2021 Reviewed on 05/02/2021

Trade name: Sodium periodate

(Contd. of page 6)

#### · Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

#### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### · TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



- · Signal word Danger
- · Hazard statements

May intensify fire; oxidizer.

· Precautionary statements

Keep away from heat.

*Keep/Store away from clothing/combustible materials.* 

Take any precaution to avoid mixing with combustibles.

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

*In case of fire: Use for extinction: CO2, powder or water spray.* 

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department.
- · Contact:

\*ИДИДИ БМЕД

#### \*WWW.ENERGYSEMNAN.COM\*

- · Date of preparation / last revision 05/02/2021 / -
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 8)

Printing date 05/02/2021 Reviewed on 05/02/2021

Trade name: Sodium periodate

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Ox. Liq. 2: Oxidizing liquids – Category 2

(Contd. of page 7)