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# Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: di-Sodium hydrogen phosphate SDS No. : 7255E-2
 Relevant identified uses of the substance or mixture and uses advised against Research and Development
 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture Label elements No GHS label element No Signal word

3. Composition/information on ingredients

Mixture/Substance selection:
Substance
Ingredient name:di-sodium hydrogen phosphate
Content (%):98(min)
Chemical formula:HNa2O4P
Chemicals No, Japan:1-497
CAS No.:7558-79-4
MW:141.96
ECNO:231-448-7
Note : The figures shown above are not the specifications of the product.

## 4. First-aid measures

Descriptions of first-aid measures IF INHALED Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash 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.



5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	
Use appropriate extinguishing media suitable for surrounding facilities.	
Unsuitable extinguishing media	
Unsuitable extinguishing media data is not available.	
Specific hazards arising from the substance or mixture	
Containers may explode when heated.	
Fire may produce irritating, corrosive and/or toxic gases.	
Advice for firefighters	
Specific fire-fighting measures	
Evacuate non-essential personnel to safe area.	
Special protective equipment and precautions for fire-fighters	
Wear fire resistant or flame retardant clothing.	
Wear protective gloves/protective clothing/eye protection/face protection.	
Firefighters should wear self-contained breathing apparatus with full face peace operated	
positive pressure mode.	
6. Accidental release measures	
Personnel precautions, protective equipment and emergency procedures	
Ventilate area until material pick up is complete.	
Wear proper protective equipment.	
Environmental precautions	
Prevent spills from entering sewers, watercourses or low areas.	
Avoid raising dust.	
Methods and materials for containment and cleaning up	
Sweep up, place in a bag and hold for waste disposal.	
Preventive measures for secondary accident	
Collect spillage.	
7. Handling and storage	
Precautions for safe handling	
Preventive measures	
(Protective measures against fire and explosion)	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No	
smoking.	
(Exhaust/ventilator)	
Exhaust/ventilator should be available.	
(Safety treatments)	
Avoid contact with skin.	
Avoid contact with eyes.	
Safety Measures	
Wear protective gloves, protective clothing or face protection.	
When using do not eat, drink or smoke.	
Any incompatibilities	
See ″10.Stability and Reactivity″	
Storage	



Conditions for safe storage Keep container tightly closed. Store in a cool, dry place. Do not store in direct sunlight. Container and packaging materials for safe handling Glass Polyethylene

8. Exposure controls/personal protection

Control parameters
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.
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Crystals or powder Color: White or colorless Odor: Odorless Melting point/Freezing point: (decomposes)ca. 250°C Boiling point or initial boiling point data is not available. Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 7.7 g/100 ml  $(20^{\circ}C)$ n-Octanol/water partition coefficient: log Pow-5.8 (cal.) Vapor pressure data is not available. Density and/or relative density: 0.5 through 1.2 g/cm3 Relative vapor density (Air=1) data is not available. Particle characteristics data is not available.

Stability and Reactivity
 Reactivity
 Not available.
 Chemical stability
 Hygroscopic (absorbs moisture from the air).

 Possibility of hazardous reactions



1129)

Decomposes on heating. This produces toxic fumes. Reacts violently with strong acids. (ICSC

Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Strong acids Hazardous decomposition products Sodium oxides, Phosphorus oxides 11. Toxicological Information Information on toxicological effects Acute toxicity Acute toxicity (Oral) [Company proprietary data] (di-sodium hydrogen phosphate) rat LD50=17000mg/kg (RTECS) Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation data is not available. Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity data is not available. STOT STOT-single exposure data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available. Information on other hazards May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax 12. Ecological Information Ecotoxicity Ecotoxicity data is not available. Water solubility (di-sodium hydrogen phosphate) 7.7 g/100 ml (20°C) (ICSC, 2006) Persistence and degradability Persistence and degradability data is not available. Bioaccumulative potential (di-sodium hydrogen phosphate) log Pow=-5.8 (ICSC, 2006)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.



#### 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal,

including the disposal of any contaminated packaging

## Waste treatment methods

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

## 14. Transport Information

UN No. or ID No.: Not applicable Not applicable to IMDG Code Not applicable to IATA Dangerous Goods Regulations Environmental hazards MARPOL Annex III – Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

15. Regulatory Information

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

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

di-sodium hydrogen phosphate

### Other regulatory information

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

## 16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

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.

The GHS classification data given here is based on current Japan official data (NITE published in 2020).