

Date of issue for the 1st edition : 28/Feb/2023

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking
Product identifier:
Product name: Diammonium Hydrogen Phosphate
Reference number(SDS):84116jis_E−1
Product type:
Food Additives
XThis product conform to JSFA(Japan's Specifications and Standards for Food Additives).
Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the product: Brewing agents
Uses advised against: Do not use for other purposes.
Details of the supplier of the safety data sheet
Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.
Address: 1-6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan
Division: Quality Assurance Department
Telephone number: +81-48-986-6161
FAX: +81-48-989-2787
e-mail address: shiyaku-t@junsei.co.jp

Section 2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture HEALTH HAZARDS Serious eye damage/eye irritation: Category 2 (Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Warning HAZARD STATEMENT H319-Causes serious eye irritation PRECAUTIONARY STATEMENT Prevention Wash contaminated parts thoroughly after handling. Wear eye protection/face protection. Response 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.

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Common name, synonyms: Ammonium phosphate dibasic Ingredient name:Diammonium hydrogen phosphate Content (%):96.0~102.0



Diammonium Hydrogen Phosphate, JUNSEI CHEMICAL CO., LTD.,84116jis_E-1,28/Feb/2023 Chemical formula:H9N2O4P Chemicals No, Japan:1-379 CAS No.:7783-28-0 MW:132.06 ECNO:231-987-8

Section 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. IF SWALLOWED Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell. Most important symptoms and effects, both acute and delayed (Symptoms when skin and/or eye contact) Conjunctival redness of the eyes. Pain of the eyes.

Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities. The product is non-flammable. 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. Runoff from fire control or dilution water may cause pollution. 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.

Section 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

Avoid release to headsprings, rivers, lakes, ocean and groundwater.



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.



Diammonium Hydrogen Phosphate,

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Contact the glove manufacturer for specific advice on glove selection and breakthrough

times for your use conditions.

Eye protection

Wear safety glasses with side-shields.

Wear eye/face protection.

Skin and body protection

Wear impervious clothing and boots in case of repeated or prolonged treatment.

Section 9	. Physical	and	Chemical	Properties
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Information on basic physical and chemical properties Physical state: Crystals or crystalline powder Color: Colorless~White Odor: None or ammonia odor Odor threshold data is not available. Melting point/Freezing point data is not available. Boiling point or initial boiling point data is not available. Boiling range data is not available. Flammability (gases, liquids and solids): Non-flammable Lower and upper explosion limit/flammability limit data is not available. Flash point: Non-flammable Auto-ignition temperature data is not available. Decomposition temperature: 100°C Self-Accelerating Decomposition Temperature/SADT data is not available. pH: 7.6~8.4(1.0g, water100mL) Dynamic viscosity data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 57.5g/100 ml (10°C) Solubility in solvent: Practically insoluble in ethanol (99.5). n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Vapor density data is not available. Density and/or relative density: 1.619g/cm3(20°C) Relative vapor density (Air=1) data is not available. Relative density of the Vapor/air – mixture at 20° C (Air = 1) data is not available. Particle characteristics data is not available. Other information Critical temperature data is not available. Evaporation rate data is not available. VOC data is not available. Other information is not available.

Section 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Decomposes above 100°C. Decomposes on contact with strong bases.

Reacts vigorously with strong acids and strong oxidants.

Gradually gives off ammonia on exposure to air.



Conditions to avoid Contact with incompatible materials. Heating. Air. Incompatible materials Strong acids, Strong bases, Strong oxidizing agents Hazardous decomposition products Carbon oxides, Nitrogen oxides, Ammonia, Phosphorus oxides

Section 11. Toxicological Information
Information on toxicological effects
Acute toxicity
Acute toxicity (Oral)
[Product]
Based on available data, the classification criteria are not met.
[Data for components of the product]
rat LD50 >2000 mg/kg (SIDS, 2007)
Acute toxicity (Dermal)
[Product]
Based on available data, the classification criteria are not met.
[Data for components of the product]
rat LD50 >5000 mg/kg (SIDS, 2007)
Acute toxicity (Inhalation)
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Irritant properties
Skin corrosion/irritation
[Product]
Based on available data, the classification criteria are not met.
[Data for components of the product]
rabbit : slightly irritating (SIDS, 2007)
Serious eye damage/irritation
[Product]
Category 2, Causes serious eye irritation
[Data for components of the product]
rabbit : slightly~moderately irritating (SIDS, 2007)
Sensitization
Respiratory sensitization
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Skin sensitization
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Germ cell mutagenicity
[Product]
Classification not possible (Insufficient data available or no data available).



Diammonium Hydrogen Phosphate,
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[Data for components of the product]
No data available.
Carcinogenicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Reproductive toxicity
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Specific target organ toxicity (STOT)
STOT-single exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
STOT-repeated exposure
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Aspiration hazard
[Product]
Classification not possible (Insufficient data available or no data available).
[Data for components of the product]
No data available.
Section 12. Ecological Information

Toxicity

loxicity
Aquatic toxicity
[Product]
Based on available data, the classification criteria are not met.
[Data for components of the product]
Hazardous to the aquatic environment, short-term (acute)
Fish (Cirrhinus mrigala) LC50=1700~1875mg/L/96hr (SIDS, 2007)
Water solubility
[Data for components of the product]
57.5 g/100 ml (10°C) (ICSC, 1998)
Persistence and degradability
Persistence and degradability data is not available.
Bioaccumulative potential
Bioaccumulative potential data is not available.
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Other adverse effects

Ozone depleting chemical data is not available.



Section 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.					
Section 14. Transport Information					
UN No., UN CLASS					
UN Number or ID Number : Not applicable					
UN Proper Shipping Name : Not applicable					
Class or division (Transport hazard class) : Not applicable					
Packing group : Not applicable					
IMDG Code (International Maritime Dangerous Goods Regulations)					
UN Number or ID Number : Not applicable					
UN Proper Shipping Name : Not applicable					
Class or division (Transport hazard class) : Not applicable					
Packing group : Not applicable					
IATA (Dangerous Goods Regulations)					
UN Number or ID Number : Not applicable					
UN Proper Shipping Name : Not applicable					
Class or division (Transport hazard class) : Not applicable					
Packing group : Not applicable					
Environmental hazards					
Marine pollutants (yes/no) : no					
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					
Noxious Liquid Substances ; Cat. Z					
Diammonium hydrogen phosphate					
Section 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					
7783–28–0					
All components are listed or exempted.					
Other regulatory information					
We are not able to check up the regulatory information with 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.					
Regulatory information in this section are limited to intentional ingredient(s), but does					
not contain information on non-intentional ingredients or impurities which are not informed					
by supplier(s).					
Chemical safety assessment					
Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.					



Section 16. Other information
GHS classification and labelling
H319-Serious eye damage/eye irritation, Category 2: H319 Causes serious eye irritation
References and sources for data
Globally Harmonized System of classification and labelling of chemicals, UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
IMDG Code, 2020 Edition (Incorporating Amendment 40-20)
IATA Dangerous Goods Regulations (64th Edition) 2023
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2022 TLVs and BEIs. (ACGIH)
JIS Z 7252 : 2019
JIS Z 7253 : 2019
2022 Recommendation on TLVs (JSOH)
Notification No. 0111-1 (January 11, 2022), Chemical Hazards Control Division, Industrial
Safety and Health Department, Labour Standards Bureau, MHLW in Japan
Supplier's data/information
Chemicals safety data management system "GHS Assistant" Version 4.21(https://www.asahi-ghs.com/)
NITE Chemical Risk Information Platform "NITE-CHRIP"
(https://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop)
GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.0)(Mar. 2020, METI)
Abbreviations and acronyms
SDS (Safety Data Sheet)
LD50 (Lethal Dose, 50%)
LC50 (Lethal Concentration, 50%)
IARC (International Agency for Research on Cancer)
ACGIH (American Conference of Governmental Industrial Hygienists)
EPA (US Environmental Protection Agency)
NTP (US National Toxicology Program)
JSOH (Japan Society for Occupational Health)
EU (European Union)
EC50 (Effective Concentration, 50%)
NOEC (No Observed Effect Concentration)
BOD (Biochemical Oxygen Demand)
COD (Chemical Oxygen Demand)
BCF (Bioconcentration Factor)
anh (anhydride)
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 2021).