

Date of issue: 2015/5/13 Date of revision: 2022/10/25

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: 2,5-Dioxa-8-azaspiro[3.5]nonane Product code (SDS NO): PK04051E-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 (Note) GHS classification without description: Not classified/Classification not possible Label elements No GHS label element No Signal word 3. Composition/information on ingredients Mixture/Substance selection: Substance Ingredient name: 2,5-Dioxa-8-azaspiro[3.5]nonane Content (%): -Chemical formula: C6H11NO2 CAS No.: 1184185-17-8 MW: 129.16 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 or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

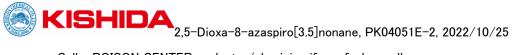
IF IN EYES

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 or doctor/physician if you feel unwell.

5. Fire-fighting measure	'S	
Extinguishing media		
Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities.		
Advice for firefighters		
	Specific fire-fighting measures	
Evacuate non-essential personnel to safe area.		
	equipment and precautions for fire-fighters	
	ne resistant/retardant clothing.	
	ve gloves/protective clothing/eye protection/face protection.	
	nould wear self-contained breathing apparatus with full face peace operated	
positive press	ure mode.	
6. Accidental release m		
	s, protective equipment and emergency procedures	
	until material pick up is complete.	
	rotective equipment.	
Environmental precau		
	from entering sewers, watercourses or low areas.	
	Is for containment and cleaning up	
	ith inert material (dry sand, earth, et al), then place in a chemical waste container.	
	for secondary accident	
Collect spillag	-	
7. Handling and storage	1 III	
Precautions for safe	-	
Preventive measur		
	sures against fire and explosion)	
	om heat/sparks/open flames/hot surfaces. – No smoking.	
(Exhaust/ventila		
	lator should be available.	
(Safety treatmer		
Avoid contact		
Avoid contact	with eyes.	
Safety Measures		
	ve gloves, protective clothing or face protection.	
	o not eat, drink or smoke.	
Any incompatibilitie		
	lity and Reactivity″	
Storage		
	r tightly closed.	
	l, dry place. Do not store in direct sunlight.	
Container and packaging materials for safe handling		
Glass.		
8. Exposure controls/pe	ersonal protection	
Exposure controls		
A	and an a sector of a	

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 Wear 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, Color: light yellow oil. Odor 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) 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 data is not available. n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. No Particle characteristics data is not available. 10. Stability and Reactivity Reactivity N.A. Chemical stability Stable under normal storage/handling conditions. Possibility of hazardous reactions N.A.

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon oxides, Nitrogen oxides

 Toxicological Information Information on toxicological effects Acute toxicity data is not available. 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.

12. Ecological Information

Ecotoxicity

Ecotoxicity data is not available.

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

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

Not applicable to UN No., UN CLASS 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

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 (62th Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)



2021 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).