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Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Indole SDS No. : 3968E-1
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

Section 2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture HEALTH HAZARDS Acute toxicity (Oral): Category 4 Acute toxicity (Dermal): Category 3 Serious eye damage/eye irritation: Category 2A

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment, short-term (acute): Category 1

(Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Danger HAZARD STATEMENT

H302 Harmful if swallowed

H311 Toxic in contact with skin

H319 Causes serious eye irritation

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H400 Very toxic to aquatic life
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PRECAUTIONARY STATEMENT

Prevention

P273 Avoid release to the environment.

P264 Wash contaminated parts thoroughly after handling.

P280 Wear protective gloves or protective clothing.

P280 Wear eye protection/face protection.

P270 Do not eat, drink or smoke when using this product.

Response

P391 Collect spillage.

P312 Call a POISON CENTER/doctor/physician if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.



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P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P330 IF SWALLOWED: Rinse mouth.
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
Storage
P405 Store locked up.
Disposal
P501 Dispose of contents/container in accordance with local/national regulation.

Specific adverse human health effects

See "11. Toxicological Information".

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan	Chemical formula
Indole	99(min)	120-72-9	5-130	C8H7N

Note : The figures shown above are not the specifications of the product.

Section 4. First-aid measures

Descriptions of first-aid measures General measures Call a POISON CENTER/doctor/physician if you feel unwell. 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 Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. 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.

Section 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

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

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 a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

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.

Section 7. Handling and storage

Precautions for safe handling Preventive measures (Exposure Control for handling personnel) Do not breathe dust/fume/gas/mist/vapors/spray. (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/eye protection/face protection. Wash hands et al thoroughly after handling. When using do not eat, drink or smoke. Any incompatibilities See "10.Stability and Reactivity". Advice on general occupational hygiene Wash contaminated parts thoroughly after handling.



Do not eat, drink or smoke when using this product.

Take off immediately all contaminated clothing and wash it before reuse.

Storage

Conditions for safe storage

Keep container tightly closed.

Store locked up. (P405)

Chilled storage.

Storage in accordance with local/national regulation.

Container and packaging materials for safe handling

Use closed unbreakable containers.

Section 8. Exposure controls/personal protection

Control parameters

Control value and concentration standard value are not available in ISHA.

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

Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

Hand protection

Wear impervious protective glove.

Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

Skin and body protection

Wear protective clothing.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Flakes Color: White to beige Odor: Characteristic odor Melting point/Freezing point: 51–54°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: (Indole)121°C 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: Insoluble Solubility in solvent 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. Particle characteristics data is not available. Other information Other information is not available.

Section 10. Stability and Reactivity

Reactivity Not available. Chemical stability Stable under normal storage/handling conditions. Possibility of hazardous reactions Not available. Conditions to avoid Contact with fire source. Incompatible materials Not available. Hazardous decomposition products Carbon oxides, Nitrogen oxides

Section 11. Toxicological Information

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Information on toxicological effects
Acute toxicity
  Acute toxicity (Oral)
     [Product]
        Category 4, Harmful if swallowed
     [Data for components of the product]
        [GHS Cat. Japan, base data]
        rat LD50=1000mg/kg (JECFA 54, 2006)
  Acute toxicity (Dermal)
     [Product]
        Category 3, Toxic in contact with skin
     [Data for components of the product]
        [GHS Cat. Japan, base data]
        rabbit LD50=790mg/kg (RTECS, 2003)
Irritant properties
  Skin corrosion/irritation data is not available.
  Serious eye damage/irritation
     [Product]
        Category 2A, Causes serious eye irritation
     [Data for components of the product]
        [GHS Cat. Japan, base data]
        rabbit Iritation Score=8 (HSDB, 2003)
Allergenic and sensitizing effects data is not available.
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Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity data is not available. Specific target organ toxicity (STOT) STOT-single exposure data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available.

Section 12. Ecological Information

Toxicity
Aquatic toxicity
[Product]
Category 1, Very toxic to aquatic life
[Data for components of the product]
Hazardous to the aquatic environment, short-term (acute)
[GHS Cat. Japan, base data]
Crustacea (Daphnia) LC50=1.0mg/L/48hr (Aquire, 2011)
Persistence and degradability
[Data for components of the product]
OECD TG301C BOD_Degradation : 89-92% (METI existing chemical safety inspections, 2007)
Bioaccumulative potential
[Data for components of the product]
log Pow=2.14 (PHYSPROP DB, 2011)
Mobility in soil
Mobility in soil data is not available.
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 Avoid release to the environment. Dispose of contents/container as industrial waste. Accordance with local/national regulation.

Section 14. Transport Information

UN Number or ID Number : 2811 UN Proper Shipping Name : TOXIC SOLID, ORGANIC, N.O.S. Class or division (Transport hazard class) : 6.1 Packing group : III ERG GUIDE No.: 154 IMDG Code (International Maritime Dangerous Goods Regulations) UN Number or ID Number : 2811 UN Proper Shipping Name : TOXIC SOLID, ORGANIC, N.O.S.



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Class or division (Transport hazard class) : 6.1 Packing group : III IATA (Dangerous Goods Regulations) UN Number or ID Number : 2811 UN Proper Shipping Name : TOXIC SOLID, ORGANIC, N.O.S. Class or division (Transport hazard class) : 6.1 Hazard labels : Toxic Packing group : III Environmental hazards Marine pollutants (yes/no) : yes

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

Applicable

Other regulatory information

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

Section 16. Other information

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, 2022 Edition (Incorporating Amendment 41–22) IATA Dangerous Goods Regulations (65th Edition) 2024 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2024 TLVs and BEIs. (ACGIH) JIS Z 7252 : 2019 JIS Z 7253 : 2019 2023 Recommendation on TLVs (JSOH) Supplier's data/information

General Disclaimer

Please provide SDS to customers for selling or transferring.

All chemicals have unknown hazard. Handle the product with care.

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 2022).