



## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier:

Product name: N,N-Diisopropylethylamine

Product code(SDS NO): 94302E-1

#### Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka 540-0029, JAPAN

Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzankenri@kishida.co.jp

### 2. Hazards identification

#### GHS classification and label elements of the product

#### Classification of the substance or mixture

##### Physiocal and chemical hazards

Flammable liquids: Category 2

##### HEALTH HAZARDS

Acute toxicity Oral: Category 4

Skin corrosion/irritation: Category 1B

Serious eye damage/eye irritation: Category 1

##### ENVIRONMENT HAZARDS

Hazardous to the aquatic environment – acute hazard: Category 3

Hazardous to the aquatic environment – long-term hazard: Category 3

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

#### Label elements



Signal word: Danger

#### HAZARD STATEMENT

Highly flammable liquid and vapor

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

#### PRECAUTIONARY STATEMENT

##### Prevention

Avoid release to the environment.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.



N,N-Diisopropylethylamine, KISHIDA CHEMICAL CO., LTD., 94302E-1, 02/03/2018

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash contaminated parts thoroughly after handling.
- Wear protective gloves, protective clothing or face protection.
- Wear eye protection/face protection.
- Do not eat, drink or smoke when using this product.

#### Response

- In case of fire: Use appropriate media other than water for extinction.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### Storage

- Store in a well-ventilated place. Keep cool.

#### Disposal

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

#### Physical and Chemical hazards

- Highly flammable liquid. Vapor/air mixture may explode.

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### 3. Composition/information on ingredients

#### Mixture/Substance selection:

##### Substance

Ingredient name: N,N-Diisopropylethylamine  
Content(%): 98(min)  
Chemical formula:  $\text{CH}_3\text{CH}_2\text{N}[\text{CH}(\text{CH}_3)_2]_2$   
Chemicals No, Japan: 2-3499  
CAS No.: 7087-68-5  
MW: 129.24  
ECNO: 230-392-0

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

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### 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. Do NOT induce vomiting.
- Call a POISON CENTER or doctor/physician if you feel unwell.

**5. Fire-fighting measures**

## Extinguishing media

## Suitable extinguishing media

In case of fire, use foam, dry powder, CO<sub>2</sub>, dry sand.

## 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/flame resistant/retardant clothing.

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

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

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**6. Accidental release measures**

## Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

## Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

## Preventive measures for secondary accident

Collect spillage.

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**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/sparks/open flames/hot surfaces. – No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

## Exhaust/ventilator

Exhaust/ventilator should be available.

## Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

## Safety Measures/Incompatibility

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

When using do not eat, drink or smoke.

## Conditions for safe storage, including any incompatibilities

## Recommendation for storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.



## 8. Exposure controls/personal protection

### 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

- Wear respiratory protection.

##### Hand protection

- Wear protective gloves.

##### Eye protection

- Wear eye/face protection.

##### Safety and Health measures

- Wash ... thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Wash contaminated clothing before reuse.
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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

#### Physical properties

- Appearance: Liquid
- Color: Colorless to pale yellow
- Odor: Characteristic odor

#### Phase change temperature

- Initial Boiling Point/Boiling point: 127°C
- Melting point/Freezing point: -45°C
- Decomposition temperature data N.A.
- Flash point: (N,N-Diisopropylethylamine )12°C
- Explosive properties: Flammability or explosive limit
  - Lower limit: 0.7%
  - Upper limit: 6.3%

Vapor pressure: 4.1 kPa(37.7°C)

Vapor density data N.A.

Specific gravity/Density: 0.76

#### Solubility

- Solubility in water: Insoluble
  - n-Octanol /water partition coefficient data N.A.
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## 10. Stability and Reactivity

### Chemical stability

- Stable under normal storage/handling conditions.

### Conditions to avoid

- Contact with incompatible materials.
- Contact with fire source.

### Incompatible materials

- Acids, Oxidizing agents, Halogenide, Nitrosating agent

### Hazardous decomposition products

- Carbon oxides, Nitrogen oxides, Nitrous acid gas

**11. Toxicological Information**

Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

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**12. Ecological Information**

Ecotoxicity

No Aquatic toxicity data available

No Persistence and degradability data available

No Bioaccumulative potential data available

No Mobility in soil data available

Ozone depleting chemical data not available

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**13. Disposal considerations**

Waste treatment methods

Avoid release to the environment (- if this is not the intended use).

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

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**14. Transport Information**

UN number: 2733

UN proper shipping name:

AMINES, FLAMMABLE, CORROSIVE, N.O.S. or POLYAMINES, FLAMMABLE, CORROSIVE, N.O.S.

Transport hazard class(es): 3

Transport subsidiary risks: 8

Packing group: II

ERG GUIDE NO.: 132

Special provisions NO.: 274; A3; A803

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**15. Regulatory Information**

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

US major regulations

TSCA

N,N-Diisopropylethylamine

Other regulatory information

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

**16. Other information****GHS classification and labelling**

Flam. Liq. 2: H225 Highly flammable liquid and vapor

Acute Tox. 4: H302 Harmful if swallowed

Skin Corr. 1B: H314 Causes severe skin burns and eye damage

Eye Dam. 1: H318 Causes serious eye damage

Aquatic Acute 3: H402 Harmful to aquatic life

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects

The product is not applicable to GHS classifications.

**Reference Book**

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2017 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

Hazard Communication Standard – 2012

**General Disclaimer**

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

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 2016).