MATERIAL SAFETY DATA SHEET (MSDS)



PRODUCT NAME.: DIISOPROPYLAMINE

CAS No.: 108-18-9

1.1. Product identifier

Product form : Substance

Product name : DIISOPROPYLAMINE

Product Grades (Applicable) : D0074H (Pack size(s):-1LT,2.5LT

D0074A (Pack size(s):-0.5L,2.5L,25L,200LT

 Product Code
 : D0074

 CAS No
 : 108-18-9

 Formula
 : C6H15N

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses1.2.2. Uses advised againstIndustrial. For professional use onlyNo additional information available

1.3. Details of the supplier of the safety data sheet

RYZE CHEMIE

W-68, Mankivli MIDC

Badlapur (E), Thane,

Maharashtra-421503

www.ryzechemie.com

1.4. Emergency Telephone Number

+91- 99-3006-04-04

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2

H225

H302 Acute toxicity (oral), Category 4 Acute toxicity (inhal.), Category 4 H332 Skin corrosion/irritation, Category 1B H314

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label Elements

Labelling according to Regulation (EC) No. 1907/2006 [CLP]

Hazard pictograms (CLP)







GHS02

GHS05

GHS06

Signal word (CLP) : Danger

H225 - Highly flammable liquid and Hazard statements (CLP)

vapour

H302+H332 - Harmful if swallowed or

if inhaled

H314 - Causes severe skin burns and

eye damage

P210 - Keep away from heat, hot Precautionary statements (CLP)

surfaces, sparks, open

flames and other ignition sources. No

smoking.

P280 - Wear protective clothing, eye

protection, face

protection, protective gloves.

P310 - Immediately call a POISON

CENTER/doctor

CENTER/doctor/...

P305+P351+P338 - IF IN EYES: Rinse

cautiously with water

for several minutes. Remove contact

lenses, if present and

easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name DIISOPROPYLAMINE

CAS No 108-18-9 EC-No. 203-558-5 EC Index-No. 612-129-00-5

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after skin contact

First-aid measures after inhalation Remove victim to fresh air and keep

at rest in a position

comfortable for breathing.
Immediately call a POISON
CENTER or doctor/physician.

Take off immediately all contaminated

clothing.

Immediately call a POISON CENTER/doctor. Wash with

plenty of water/....

First-aid measures after eye contact

Rinse cautiously with water for:

several minutes. Remove

contact lenses, if present and easy to

do. Continue rinsing.

Immediately call a POISON CENTER or

doctor/physician.

First-aid measures after ingestion

Rinse mouth. Do NOT induce

vomiting. Immediately call a

POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

. Causes severe skin burns and eye

Symptoms/effects damage.

Symptoms/effects after inhalation : Harmful if inhaled.
Symptoms/effects after ingestion : Harmful if inhaled.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide. Dry powder. Foam.

Water spray

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard May form flammable/explosive

vapour-air mixture.

Hazardous decomposition products : Not Classified in case of fire : Not Classified

5.3. Advice for firefighters

Protection during firefighting

Do not enter fire area without proper

protective

equipment, including respiratory

protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Remove ignition sources. Use special

care to avoid static

electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as

required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Collect spillage. On land, sweep or

shovel into suitable

containers.

Other information : Not Classified

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

Hygiene measures

Handle empty containers with care

because residual

vapours are flammable.

Avoid contact with skin and eyes. Use

only non-sparking

tools. Keep away from sources of

ignition - No smoking. Do

not breathe vapours. Provide good

ventilation in process

area to prevent formation of vapour.

Do not eat, drink or smoke when

using this product. Wash

hands and other exposed areas with

mild soap and water

before eating, drinking or smoking and

when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Proper grounding procedures to avoid

static electricity

should be followed. Ground/bond

container and receiving

equipment. Use explosion-proof

electrical/ventilating/

lighting/... equipment. Comply with

applicable regulations.

. Keep in fireproof place. Keep

container tightly closed

: Heat sources.

7.3. Specific end use(s)

Storage conditions

Packaging materials

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves

Eye protection : Chemical goggles or face shield
Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Molecular mass : 101.1 g/mol

Colour : Clear Colorless

Odour : amine-like odor

Odour threshold : No data available

pH : No data available

pH solution concentration : No data available

Relative evaporation rate : No data available

Melting point : -61 °C

Freezing point : No data available

Boiling point : 84 °C
Flash point : -7 °C
Auto-ignition temperature : 316 °C

Decomposition temperature : No data available

Flammability (solid, gas)

Flammable Highly flammable liquid

and vapour

Vapour pressure : 67 hPa at 20 °C

Relative vapour density at 20 °C : 3.49

Relative density : Not available

Density : 0.722 g/cm

Relative gas density No data available : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic No data available No data available Viscosity, dynamic Explosive properties No data available Oxidising properties No data available **Explosive limits** 0.011 - 0.085 vol %

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits : No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Heat. Sparks. Direct sunlight

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)

Harmful if swallowed. Harmful if

inhaled

Skin corrosion/irritation Causes severe skin burns and eye

damage.

Serious eye damage/irritation

Serious eye damage, category 1,

implicit

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : No additional information available

Sewage disposal recommendations : No additional information available

Dispose of contents/container to

Product/Packaging disposal recommendations hazardous or special

waste collection point, in accordance

with local, regional,

national and/or international

regulation.

Additional information Handle empty containers with care

because residual

vapours are flammable.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1158 UN-No. (IMDG) : 1158 UN-No.(IATA) : 1158 UN-No.(ADN) : 1158 UN-No. (RID) : 1158

14.2. UN proper shipping name

Proper Shipping Name (ADR) : DIISOPROPYLAMINE
Proper Shipping Name (IMDG) : DIISOPROPYLAMINE

Proper Shipping Name (IATA) : Diisopropylamine

Proper Shipping Name (ADN) : DIISOPROPYLAMINE

Proper Shipping Name (RID) : DIISOPROPYLAMINE

Transport document description (ADR)

UN 1158 DIISOPROPYLAMINE, 3 (8),

II, (D/E)

Transport document description (IMDG)

UN 1158 DIISOPROPYLAMINE, 3 (8), II

· (-7°C c.c.)

Transport document description (IATA) : UN 1158 Diisopropylamine, 3 (8), II

Transport document description (ADN) : UN 1158 DIISOPROPYLAMINE, 3 (8), II

Transport document description (RID) : UN 1158 DIISOPROPYLAMINE, 3 (8), II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3 (8)

Danger labels (ADR) :



IMDG

Transport hazard class(es) (IMDG) : 3 (8)

Danger labels (IMDG) : 3,8



IATA

Transport hazard class(es) (IATA) : 3 (8)

Hazard labels (IATA) : 3, 8



ADN

Transport hazard class(es) (ADN) : 3 (8)

Hazard labels (ADN) : 3, 8



RID

Transport hazard class(es) (RID) : 3 (8)

Hazard labels (RID) : 3, 8



14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information No supplementary information :

available

:

14.6. Special precautions for user

Overland transport

Classification code (ADR) : FC
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02
Special packing provisions (ADR) : Not Classified

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T7

Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : L4BH

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Bulk (ADR) : Not Classified

Special provisions for carriage - Loading, unloading

and handling (ADR) . Not Classified

Special provisions for carriage - Operation (ADR) : \$2,520

Hazard identification number (Kemler No.) : 338

Orange plates :

338 1158

В

Tunnel restriction code (ADR) : D/E

EAC code : •3WE

- Transport by sea

Stowage category (IMDG)

Limited quantities (IMDG) 1 L Excepted quantities (IMDG) E2 Packing instructions (IMDG) P001 IBC packing instructions (IMDG) IBC02 Tank instructions (IMDG) T7 Tank special provisions (IMDG) TP1 F-E EmS-No. (Fire) EmS-No. (Spillage) S-C

Properties and observations (IMDG)

Colourless, volatile liquid with a fishy

odour. Flashpoint:

-7°C c.c. Explosive limits:1.1% to 7.1%

Partially miscible

with water. Harmful by inhalation.

Causes burns to

5L

skin, eyes and mucous membranes.

MFAG-No : 132

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y340

PCA limited quantity max net quantity (IATA) : 0.5L

PCA packing instructions (IATA) : 352

PCA max net quantity (IATA) : 1L

CAO packing instructions (IATA) : 363

ERG code (IATA) : 3CH

- Inland waterway transport

CAO max net quantity (IATA)

Classification code (ADN) : FC
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Equipment required (ADN) : VE01

Special provisions (ADN) : Not Classified

Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : FC
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02

Mixed packing provisions (RID) : MP19

Special provisions (RID) : Not Classified

Portable tank and bulk container instructions (RID) : T7

Portable tank and bulk container special provisions (RID) : TP1

Tank codes for RID tanks (RID) : L4BH

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 338

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

DIISOPROPYLAMINE is not on the REACH Candidate List DIISOPROPYLAMINE is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Is not subject of the 12. BlmSchV

12th Ordinance Implementing the ... (Hazardous Incident

Federal Immission Control Act - 12.BImSchV Ordinance)

Hazardous Incident Ordinance : No additional information available

(12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : DIISOPROPYLAMINE is listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

Denmark

Emergency management guidelines

Classification remarks : for the storage of

flammable liquids must be followed
Young people below the age of 18

Danish National Regulations : years are not allowed to

use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

and the second s	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
R11	Highly flammable
R20/22	Harmful by inhalation and if swallowed
R34	Causes burns
С	Corrosive
F	Highly flammable
Xn	Harmful

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.