



LINYI KEMELE CO., LTD

Tel: +86-539-3330033

www.kmchem.com

chem@kmchem.com

Material Safety Data Sheet Diisopropylamine MSDS

1. Identification of substance	
Product Name	DIISOPROPYLAMINE
Other Name	None
Chemical Name	DIISOPROPYLAMINE
Recommended Use	Used for rubber promoter, pharmaceutical intermediate, pesticide herbicide, surfactant, etc.
Manufacturer	KEMELE Co.,LTD
Registered Address	C639 Jinke Development Zone Linyi City, Shandong Province, China
Manufacturing address	HANGZHOU CITY, ZHEJIANG PROVINCE, P.R.CHINA (311604)
WEB or E-mail	www.kmchem.com
Emergency Phone Number	sales@kemele.com +86-539-333 33
2. Hazards identification	
GHS classification	Flammable liquids 2 Acute toxicity-oral 4 Acute toxicity- inhalation 4 Skin corrosion/irritation 1B Serious eye damage/eye irritation 1 Specific target organ toxicity, single exposure 3 Hazardous to the aquatic environment, acute hazard 3
GHS Pictograms	
Signal words	Danger
Hazard statements	H225: Highly flammable liquid and vapour H302: Harmful if swallowed H332: Harmful if inhaled H314: Causes severe skin burns and eye damage H318: Causes serious eye damage



LINYI KEMELE CO., LTD

Tel: +86-539-3330033

www.kmchem.com

chem@kmchem.com

Precautionary Statement Prevention

H335: May cause respiratory irritation H402: Harmful to aquatic life
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands [and...] thoroughly after handling.
P264+P265: Wash hands [and...] thoroughly after handling. Do not touch eyes.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or with adequate ventilation.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...
P301+P317: IF SWALLOWED: Get medical help.

Precautionary Statement Response

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P361+P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water[or shower].
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P316: Get emergency medical help immediately.
P317: Get medical help.
P319: Get medical help if you feel unwell.
P321: Specific treatment (see the supplemental first aid instruction).
P330: Rinse mouth.
P363: Wash contaminated clothing before reuse
P370+P378: In case of fire, use appropriate media to extinguish.



LINYI KEMELE CO., LTD

Tel:+86-539-3330033

www.kmchem.com

chem@kmchem.com

Precautionary Statement Storage	P403+P233:Store in a well-ventilated place. Keep container tightly closed. P403+P235:Store in a well-ventilated place. Keep cool.		
Precautionary Statement Disposal	P405:Store locked up.		
Other hazards which do not result in classification	P501 : Dispose of contents/container in according with local regulation. Not available.		
3. Composition/information on ingredients			
☒ Substances ☐ Mixtures			
Component Information			
Component	CAS number	EINECS number	Mass(%wt)
DIISOPROPYLAMINE	108-18-9	203-558-5	≥99.5
Note:1. Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1%.			
4. First-aid measures			
NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.		
After inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.		
After skin contact	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact,		
After eye contact	avoid spreading material on unaffected skin. Wash clothing separately before reuse. Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating		
Most important symptoms/effects,acute and delayed	ingested the substance. Seek immediate medical attention. Irritating to the respiratory tract, inhaling vapor can cause pulmonary edema. Steam is irritating to the eyes; contact between the eyes and skin with liquid can cause burns. Oral administration can cause nausea, vomiting, diarrhea, abdominal pain, weakness, and collapse. Repeated skin contact can cause allergic dermatitis. Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.		
Most important symptoms/effects,acute and delayed	ingested the substance. Seek immediate medical attention. Irritating to the respiratory tract, inhaling vapor can cause pulmonary edema. Steam is irritating to the eyes; contact between the eyes and skin with liquid can cause burns. Oral administration can cause nausea, vomiting, diarrhea, abdominal pain, weakness, and collapse. Repeated skin contact can cause allergic dermatitis.		



LINYI KEMELE CO., LTD

Tel: +86-539-3330033

www.kmchem.com

chem@kmchem.com

Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

5. Fire-fighting measure

Suitable extinguishing agents	Water spray, foam, dry chemical powder, carbon dioxide, sandy soil.
Special hazards caused by the material, its products of combustion or flue gases	Highly flammable. Gives off irritating or toxic fumes (or gases) in a fire. Vapour/air mixtures are explosive. Risk of fire and explosion on contact with strong oxidizing agents. Can be released in case of fire: Carbon oxides, Nitrogen oxides.
Protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. Accidental release measures

Person-related safety precautions	Ensure adequate ventilation. Wear suitable protective equipment. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Small leak: absorb with sand or other non-combustible material or adsorption. Large leak: build a dike or dig a hole, covered with foam, reduce the vapor hazard. Transfer to tank exclusive collector with explosion proof pump, place the disposal of recycling or shipped to waste treatment.
Additional information	See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7. Handling and storage

Handling

Information for safe handling	Avoid contact with skin, eyes, mucous membranes and clothing. Avoid breathing vapors, mist or gas.
Information about protection against explosions and fires	Keep away from heat, sources of ignition, sparks or open flame. Take measures to prevent the build up of electrostatic charge. Above 29 °C explosive vapour/air mixtures may be formed. Use of explosion-proof lighting, ventilation facilities.



LINYI KEMELE CO., LTD

Tel:+86-539-3330033

www.kmchem.com

chem@kmchem.com

STORAGE

Requirements to be met by storerooms and containers	Keep in a cool, dry, well-ventilated place. Keep tightly closed until used. Use spark-proof tools and explosion proof equipment. Temperature should not exceed 30 °C .
Information about storage in one common storage facility	Store away from incompatible substances such as strong oxidant, strong acid, etc.
Further information about storage conditions	Storage areas should be equipped with emergency treatment equipment and suitable for materials.

8. Exposure controls/personal protection

Limit Values for Exposure Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH REL-STEL
DIISOPROPYLAMINE	108-18-9	5 ppm	N.E.	5 ppm	N.E.
Appropriate engineering controls	Use adequate ventilation to keep airborne concentrations low.				
General protective and hygienic measures	Keep away from foodstuffs, beverages and food. Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. After work, shower change clothes. Prior to employment and periodic physical examination.				
Personal protective equipment	Splash goggles, gloves, apron and a vapor respirator				
Breathing equipment	May contact the steam, wearing a tube type gas mask.				
Protection of hands Eye/Face protection	Emergency rescue or evacuation, oxygen breathing apparatus, air breathing apparatus should be worn. Wear appropriate chemical resistant gloves.				
Body protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure. Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.				

Note: 1. N.E. means not established.

9. Physical and chemical properties

Physical state	Transparent liquid
Colour	Colorless
Odour	Ammoniacal odor
Melting point/freezing point	-61 °C



LINYI KEMELE CO., LTD

Tel: +86-539-3330033

www.kmchem.com

chem@kmchem.com

Boiling point or initial	84 °C
boiling point and boiling range	
Flammability	Extremely flammable
Lower and upper explosion limit/flammability limit	0.8-7.1%(V/V)
Flash point	-7 °C (Closed cup)
Auto-ignition temperature	316°C
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity Solubility	No data available
	10 g/l
Partition coefficient:	1.64
n-octanol/water(log value)	
Vapour pressure	9.3 kPa (20 °C)
Density and/or relative density	0.72
Relative vapour density (air=1)	3.5
Particle characteristics	Not applicable

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable, can form explosive mixture with air.
Possibility of hazardous reactions	Decomposes on burning. This produces toxic fumes including nitrogen oxides. The substance is a strong base. Reacts violently with strong oxidants. This generates fire and explosion hazard. Attacks metals and many plastics.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat, flames and sparks. Extreme temperatures and direct sunlight. Static discharge.
Incompatible materials	Strong oxidant, strong acid.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides, irritating and toxic fumes and gases.

11. Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.



LINYI KEMELE CO., LTD

Tel: +86-539-3330033

www.kmchem.com

chem@kmchem.com

Acute Toxicity

DIISOPROPYLAMINE (CAS 108-18-9) LD50 (Oral, rat) : 420 mg/kg
LC50 (Inhalation, rat) : 5.35 mg/L (4h)
LD50 (Dermal, rabbit) : 2000 mg/kg

Skin corrosion/Irritation Serious Causes severe skin burns
eye damage/irritation Causes serious eye damage

Respiratory or skin sensitization Not classified

Germ cell mutagenicity Not classified

Carcinogenicity Not classified

Reproductive toxicity Not classified

STOT-single exposure May cause respiratory irritation

STOT-repeated exposure Not classified

Aspiration hazard Not classified

Chronic Effects Not classified

Further Information No data

12. Ecological information

Aquatic Toxicity

DIISOPROPYLAMINE (CAS 108-18-9) Test & Species

96 Hr LC50 Fish: 26 mg/l

48 Hr EC50 Daphnia: 110 mg/l

96 Hr EC50 Algae: 20 mg/l

Persistence and degradability Not easily biodegradable

Bioaccumulative potential Not available

Mobility in soil Not available

Additional Information Harmful to aquatic life.

13. Disposal considerations

WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this material.

Dispose of in accordance with local environmental regulations or local authority requirements.

14. Transport information

The Recommendation of Transport of Dangerous Goods(TDG)



LINYI KEMELE CO., LTD

Tel: +86-539-3330033

www.kmchem.com

chem@kmchem.com

UN Number UN 1158
Proper Shipping Name DIISOPROPYLAMINE
Class/Division Class 3 Flammable Liquids PG II
Package Group Class 8 Corrosive Substances

Subsidiary risk
labelling pictogram



Being same with TDG

Marine pollutant (Yes/No): No Being same with TDG

Maritime transport IMDG

Air transport ICAO-TI and
IATA-DGR

15. Regulatory information

European/International Regulations

OSHA: Hazardous by definition of Hazard Communication

Standard(29CFR 1910.1200).

EINECS Status: DIISOPROPYLAMINE (CAS 108-18-9) is included in EINECS inventory.

EPA TSCA Status: DIISOPROPYLAMINE (CAS 108-18-9) is included in TSCA inventory.

Canadian DSL/NDSL

DIISOPROPYLAMINE (CAS 108-18-9) is included in NDSL.

(Domestic Substances List/
Non-domestic

Substances List):

HMIS(Hazardous

Health: 2

Material Identification

Flammability: 3

System Ratings):

Physical hazard: 1

Personal protection: D

(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)

WHMIS(Canadian Workplace B2, D2B, E.

Hazardous Material Identification

System Ratings):

GB 12268-2012 List of
dangerous goods

This chemical is a dangerous goods on the GB 12268-2012 list
of dangerous goods.



LINYI KEMELE CO., LTD

Tel: +86-539-3330033

www.kmchem.com

chem@kmchem.com

16. other information

Employers should use this information only as a supplement to other information

gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this

Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF

DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS

GOODS CODE", "International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws,

regulations and standards, which are periodically updated and changed. To make

dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

Edit Date

17.01.2024

Update and Revise

Fourth edition

Edit Standard

Globally Harmonized System of Classification and Labelling for Chemicals Part 1.5

Revised Institution

Technology Center of Hangzhou Customs District