

杭州海关技术中心
国家危险化学品检测重点实验室（浙江）

电话 (Tel): 0571 8352 7220
传真 (Fax): 0571 8352 7219
邮编 (Post code): 311215
地址 (Add.): 中国杭州市萧山区建设三路 398 号

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ZAIQ-RF(HH)-01-19

Safety Data Sheet



Applicant name: ZHEJIANG JIANYE CHEMICAL CO.,LTD

Product Name: DIISOPROPYLAMINE

Edit date: 2020-05-21

Edit institution: Technology Center of Hangzhou Customs District

Approver:




1. Unless other wise stated, this test report is only responsible for the sample(s).
2. This test report can not be reproduced,except in full,without prior written permission of the lab.

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	ZHEJIANG JIANYE CHEMICAL CO., LTD.
Address	NO.8TH, YANGDONGGUAN ROAD, MEICHENG TOWN, JIANDE CITY, ZHEJIANG PROVINCE, CHINA / 311604
Phone Number	+86-571-64149273
Fax Number	+86-571-64141300
WEB or Email	trade@chinaorganicchem
Emergency Phone Number	+86-571-64144119 or call your nearest poison control centre.

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 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 H314:Causes severe skin burns and eye damage H318:Causes serious eye damage H332:Harmful if inhaled H412:Harmful to aquatic life with long lasting effects
Precautionary Statement Prevention	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 only 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.

	<p>P264:Wash hands thoroughly after handling.</p> <p>P270:Do not eat, drink or smoke when using this product.</p> <p>P271:Use only outdoors or in a well-ventilated area.</p> <p>P273:Avoid release to the environment.</p> <p>P280:Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</p>
Precautionary Statement Response	<p>P301+P317:IF SWALLOWED: Get medical help.</p> <p>P301+P330+P331:IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P361+P354:IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.</p> <p>P303+P361+P353:IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water[or shower].</p> <p>P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P354+P338:IF IN EYES:Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P316:Get emergency medical help immediately.</p> <p>P317:Get medical help.</p> <p>P321:Specific treatment (see the supplemental first aid instruction).</p> <p>P330:Rinse mouth.</p> <p>P363:Wash contaminated clothing before reuse</p> <p>P370+P378:In case of fire: Use extinguisher to extinguish</p>
Precautionary Statement Storage	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(%)
DIISOPROPYLAMINE	108-18-9	203-558-5	≥99.5%wt

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, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
After eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.
After ingestion	Rinse mouth. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband. Do not use mouth-to-mouth method if victim ingested the substance. Seek immediate medical attention.
Most important symptoms/effects, acute and delayed	Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage Harmful if inhaled

5. Fire-fighting measures

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	Can be released in case of fire: Carbon-monoxide, carbon dioxide, nitrogen oxide.
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.

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 oxidizing agents, acids 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 PEL-TWA	NIOSH PEL-STEL
DIISOPROPYLAMINE 108-18-9	N.E.	N.E.	N.E.	N.E.

Appropriate engineering controls

Production process closed, overall ventilation.

Provide a safety shower and eyewash facility.

General protective and hygienic measures

No smoking, eating and drinking in workplace. Shower and change clothes after work. Pre employment and regular medical examinations.

Personal protective equipment

Wear suitable protective clothing, gloves and goggles or masks.

Breathing equipment

When possible, wear a catheter type gas mask.

Protection of hands

Wear anti benzene and oil resistant gloves.

Eye/Face protection

The protection of "Breathing equipment" has been made.

Body protection

Wear rubberized fabric protective clothing.

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

9. Physical and chemical properties

Physical state

liquid

Colour	Colorless
Odour	Ammoniacal
Melting point/freezing point	-61 °C
Boiling point or initial boiling point and boiling range	84 °C
Flammability	Extremely flammable
Lower and upper explosion limit/flammability limit	1.1%-7.1%
Flash point	-10 °C (Closed cup)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient: n-octanol/water(log value)	1.64
Vapour pressure	9.3kPa (20 °C)
Density and/or relative density	0.716 g/ml (25 °C)
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	Heated decomposition releases toxic nitrogen oxide gas, corrosive.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat, flames and sparks. Extreme temperatures and direct sunlight. Static discharge.
Incompatible materials	Strong acids, strong oxidizing agents. Corrosive to aluminum, copper and other metals.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides, irritating and toxic fumes and gases.

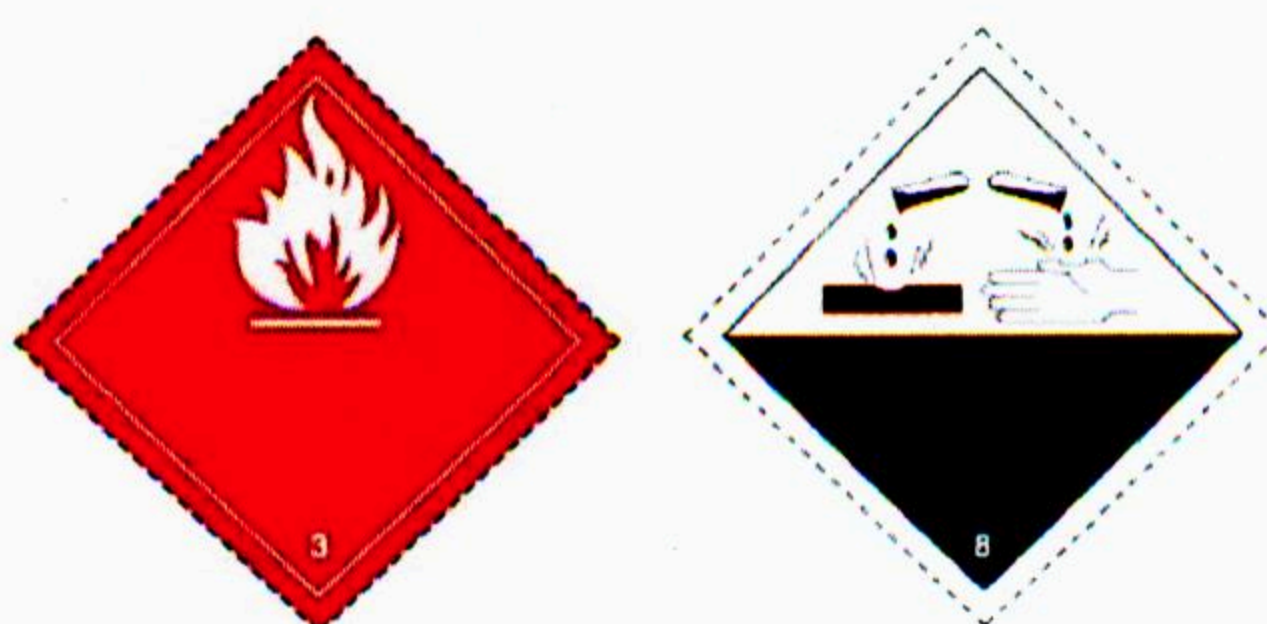
11. Toxicological information

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

Acute Toxicity

DIISOPROPYLAMINE (CAS 108-18-9)	LD50 (Oral, rat) : 420 mg/kg LC50 (Inhalation, rat) : 5.35 mg/L (4h) LD50 (Dermal, rabbit) : >10,000 mg/kg
Skin corrosion/Irritation Serious	Causes severe skin burns and eye damage Causes serious irritation on eye, skin and mucous membrane.
eye damage/irritation	
Respiratory or skin sensitization	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
Chronic Effects	Not classified
Further Information	No data
12. Ecological information	
Ecotoxicity Aquatic Toxicity	Test & Species 96 Hr LC50 Fish: 798 mg/l 48 Hr EC50 Daphnia: 110 mg/l 96 Hr EC50 Algae: 20 mg/l
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Additional Information	Harmful to aquatic life with long lasting effects.
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)	
UN Number	UN 1158
Proper Shipping Name	DIISOPROPYLAMINE
Class/Division	Class 3 Flammable Liquids
Package Group	PG II
Subsidiary risk	Class 8 Corrosive Substances

labelling pictogram



Maritime transport IMDG / Marine pollutant (Yes/No) Being same with TDG / No

Air transport ICAO-TI and IATA-DGR Being same with TDG

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 (Domestic Substances List/ Non-domestic Substances List): DIISOPROPYLAMINE (CAS 108-18-9) is included in NDSL.

HMIS(Hazardous Material Identification System Ratings):
Health: 2
Flammability: 3
Physical hazard: 1
Personal protection: D
(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
B2, D1B, E.

WHMIS(Canadian Workplace 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.

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

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Update and Revise Second edition

Edit Standard *Globally Harmonized System of Classification and Labelling for Chemicals* Part 1.5

Revised Institution Technology Center of Hangzhou Customs District