

# Safety Data Sheet

Trade name: HM-230DAT



SDS No.: R(QEP21)-04 A226-2021

Revision date: 7/12/2021

## Section 1 Chemical product and company identification

### Product identifier:

**Product name:** Polyetheramine D-230

**Trade name:** HM-230DAT

### Uses of the chemical product:

**Intended use:** As epoxy curing agent, reacts with hydroxyl acid to form thermoplastic agent, which can quickly reacts with isocyanate, after salt forming it can be used as surfactant. It also can be used in jewelry glue, crystal glue, arc glue, dropping glue, epoxy glue, etc.

**Limit use:** No information available

### Supplier identifier:

**Company name:** Zhejiang Huangma Chemical Trade Co.,Ltd

**Address:** Zhangzhen New Industry District, Shangyu, Shaoxing, Zhejiang, China

**Postcode:** 312363

**E-mail:** huangma@huangma.com

**Tel:** 0575-82096666

**Fax:** 0575-82096153

**Website:** <http://www.huangma.com>

**Emergency telephone:** 0532/83889090 (24h)

## Section 2 Hazards summarizing

### Emergency Situation summarizing:

**Eye contact:** Causes serious eye damage.

**Skin contact:** Causes skin corrosion.

**Other hazard:** Toxic to aquatic life with long lasting effects

### GHS Classification:

**Skin corrosion :** (Class 1C)

**Severe eye damage :** (Category 1).

**Acute aquatic toxicity:** III (GB 30000-2013)

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**Chronic aquatic toxicity:** III(GB 30000-2013)

**GHS Label Element:**



**Hazard Pictograms:**

**Warning words:** danger

**Hazard declaration:** H314 causes severe skin burns and eye damage

H318 causes serious eye damage

H412 harmful to aquatic organisms with long lasting effects

**Precautionary statements:**

**Prevention:** P260 Do not inhale dust/smoke/gas/smoke/steam/spray

P264 Clean skin thoroughly after operation

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/goggles/face mask

**Response:** P321 specific treatment.

P363 Contaminated clothes can be reused after cleaning.

P304+P340 In case of accidental inhalation: Remove victim to fresh air and rest with comfortable breathing posture.

P301+P330+P331 If swallowed by mistake: Gargle. Do not induce vomiting.

P303+P361+P353 In case of skin (or hair) contamination: Immediately remove/remove all contaminated clothing wash skin/shower with water.

P305+P351+P338 If in eye: Rinse carefully with water for several minutes. If you wear contact lenses and can easily remove them, remove contact lenses. Continue rinsing.

P310 Call a detoxification center/doctor.

**Safe storage:** P405 Storage must be locked.

**Disposal:** P501 Dispose the contents or containers in accordance with local/regional/

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national/international regulations.

### **Section 3 Composition/information on ingredients**

#### **Main ingredient information:**

**Description of the chemical product:** Substance

**Chemical name:** Polyetheramine D-230

**CAS-No.:** 9046-10-0

### **Section 4 First aid measures**

#### **Description of first aid measures:**

**If Inhaled:** If inhaled, remove to fresh air. Get medical advice/attention.

**In case of skin contact:** Wash with plenty of soap and water. If skin irritation occurs: Get medical advice. Take off contaminated clothing and wash before reuse.

**In case of eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**If swallowed:** Call in a physician immediately and show him the Safety Data Sheet.

**Notes for the doctor:** Treat symptomatically.

### **Section 5 Firefighting measures**

#### **Extinguishing media:**

Water spray jet, dry powder, foam, carbon dioxide (CO<sub>2</sub>) or sandy.

#### **Specific hazards arising from the substance or mixture:**

In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

#### **Advice for firefighters:**

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Firefighter should wear appropriate breathing apparatus and protective equipment. Remove from fire to empty place. Cool containers with water spray. Provide adequate ventilation. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **Section 6 Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures:**

Wear suitable protective equipment. Remove all source of ignition. Avoid contact with skin and eye. Avoid breathing vapors. Ensure adequate ventilation.

### **Environmental precautions:**

Do not allow to enter drains or waterways.

### **Methods and material for containment and cleaning up:**

If available, immediately cut off the source of leaked chemical products. Remove all sources of ignition. Absorb spill with incombustible inert material (eg.dry sand or earth), then place into an airtight container. Avoid runoff into storm sewers and ditches which lead to waterways.

### **Measures to prevent secondary hazards:**

Avoid dust and secondary leakage during cleaning.

## **Section 7 Handling and storage**

### **Precautions for safe handling:**

Operators must receive special training and strictly abide the procedures. Do not handle until all safety precautions have been read and understood. Avoid contact with eye or skin. Avoid breathing dust, fume, gas, mist, vapour or spray. Use personal protective equipment as required. Wear protective gloves, protective clothing, eye protection, face protection. Wash thoroughly after handling. 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-parking tools. Take precautionary measures against static discharge.

**Conditions for safe storage:**

Store the product in dry, cool and well-ventilated place. It is recommended to store in the original container and keep the container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. Avoid exposing to direct sunlight. Mix storage is forbidden.

**Section 8 Exposure controls/personal protection**

**OEL (Occupational exposure limit):** no data available

**Monitoring methodology:** no data available

**Engineering control method:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Personal protective equipment:**

**Respiratory protection:** Keep ventilating, no respiratory protection is required.

**Eye protection :** Wear safety glasses; Use eye-wash equipment.

**Skin and body protection:** Wear protective working clothing and apron.

**Hand protection:** Use protective gloves.

**Section 9 Physical and chemical properties**

<b>Appearance:</b>	Liquid
<b>Color:</b>	Colorless to light yellow
<b>Odour:</b>	Characteristic
<b>pH (1% water solution) :</b>	11.7
<b>Boiling point:</b>	232
<b>Flash point(°C):</b>	142
<b>Auto-ignition temperature:</b>	No data available

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<b>Explosion properties:</b>	Explosion limit 5% (V) Lower limit of explosion 0.7% (V)
<b>Oxidizing properties :</b>	Not tested
<b>Solubility in other solvents:</b>	Not tested
<b>Partition coefficient:</b>	Not tested
<b>Density (20°C, g/ml):</b>	0.948
<b>Vapour pressure :</b>	1hPa
<b>Decomposition temperature:</b>	Not tested
<b>Freezing point:</b>	-28

## Section 10 Stability and reactivity

<b>Chemical Stability:</b>	Stable under normal conditions
<b>Possibility of hazardous reactions:</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid :</b>	Open fire, high heat and other heat sources
<b>Materials to avoid :</b>	Oxidizing agent, strong acid, alkali
<b>Hazardous decomposition products:</b>	When handled and stored appropriately, no dangerous decomposition products are known
<b>Hazardous polymerization:</b>	No reaction

## Section 11 Toxicological information

### Acute oral toxicity

Oral: LD50-2885.3mg/kg (rats)

Inhalation: LC50>0.74mg/l (rats,8h)

Dermal: LD50-2980mg/kg (rabbits)

**Skin corrosion/irritation:** Skin contact cause irritation

**Serious eye damage/ eye irritation:** Eye contact cause serious eye damage

**Respiratory or skin sensitization:** Inhalation irritate the respiratory tract, and skin contact may cause skin allergy.

**Germ cell mutagenicity:** No information available.

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<b>Carcinogenicity:</b>	No information available.
<b>Reproductive toxicity:</b>	Not classified as reproductive toxicity
<b>Specific target organ system toxicity –single exposure:</b>	No information available.
<b>Specific target organ system toxicity -- repeated exposure:</b>	No information available
<b>Repeated dose toxicity:</b>	Not tested.

## Section 12 Ecological information

<b>Ecological toxicity:</b>	The substance may be harmful to the environment and special attention should be paid to water bodies.
<b>Persistence and degradability:</b>	In normal ecological environment, it's biodegradability is good.
<b>Bioaccumulative potential:</b>	Not tested
<b>Mobility in soil:</b>	Not tested

## Section 13 Disposal considerations

### **Waste treatment methods:**

Conform to the standards provided by related laws and local public bodies.

### **Contaminated packaging :**

Recycle containers after cleansing or carry out the disposal according to the related laws, regulations and the standards of the local government.

## Section 14 Transport information

**UN number (United Nations dangerous goods number) :** UN2922

**Shipping name:** POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(O,O'-Bis(2'-aminopropyl) polypropyleneglycol)

**Class:** 8

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**Packing group:** III**Label(s) for transport:****Packing methods:** Plastic bucket or metal bucket**Marine pollutant (Yes/No) :** No**IMDG/IMO:** 8**IATA:** 8**Other information:**

Transportation notes: Transport in accordance with non-toxic and non-hazardous chemicals. The transport vehicles should be equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment. Make sure that the container does not leak, collapse or damaged during transportation. Mixed Transportation especially mixed with oxidizing agents or food chemicals is strictly prohibited. The products should be protected from rain, blazing sun and high temperature during transportation. Stay away from heat sources during stopovers. Thoroughly clean the transport vehicles after transported.

## **Section 15 Regulatory information**

**China regulations:**

**The following laws/regulation/standards specify corresponding on the safe use, storage, transportation, loading and unloading, classification and labelling of the chemicals:**

Rules for classification and labeling of chemicals (GB 30000-2013)

General rule for classification and hazard communication of chemicals (GB13690-2009)

General rules for preparation of precautionary label of chemicals (GB 15258-2009)

Guidelines for implementation of the catalogue of hazardous chemicals (2015) (Trial)

Classification and code of dangerous goods (GB6944-2012)

**Prevention and Control Law of Occupational Diseases of the PRC:**





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Classification of Hazardous Factors of Occupational Diseases. (2015) : Not listed

**Regulations of the safety management of hazardous chemicals:**

Directory of hazardous chemicals (2015): Listed

List of dangerous goods (GB 12268-2012) : Not listed

**Regulations on the import and export of toxic chemicals for the first time:**

Strict limits toxic chemicals list of china (2020) : Not listed

**Environmental management methods for new chemical substances:**

IECSC (2013): Listed

## **Section 16 Other information**

**Other information:**

Observe national and local legal requirements.

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