



Chongqing Hesheng Longgang Technology Co., Ltd

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# N, N' -dimethyl diphenylurea

## Safety technical precautions

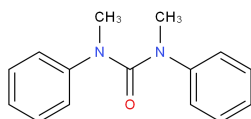
### Part I chemicals and identification

Chinese name of the chemical: N, N'-dimethyl N, N-diphenylurea (Centralite II).

English name of chemical: N, N-dimethyl-N, N -diphenyllurea

MF: C<sub>15</sub>H<sub>16</sub>N<sub>2</sub>O

Structural type:



### Part II composition / composition information

Chemical name : N, N-dimethyl N, N -diphenylurea (Centralite II)

Concentration :  $\geq 97\%$

CAS No. : 611-92-7

### Part III overview of risks

Invasion route: Inhalation, ingestion, skin contact.

Health hazard:

This product has certain toxicity, avoid direct contact with the body.

Environmental hazard:

The substance may be harmful to the environment, so it is recommended not to let it enter the environment.

Ignition and explosion hazard:

When the fine powder in the air reaches a sufficient concentration, it may cause dust explosion.

### Part IV first aid measures

Skin contact:

Take off the contaminated clothes and wash the skin thoroughly with soapy water and plenty of water for at least 15 minutes.



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Eye contact:

Immediately open the upper and lower eyelids, rinse with flowing water or normal saline for at least 15 minutes, and seek medical advice.

Inhalation:

Quickly leave the site to a place with fresh air to keep the respiratory tract unobstructed. When breathing is difficult, give oxygen. If breathing stops, give artificial respiration immediately. Seek medical treatment.

Ingestion:

It is forbidden to eat anything to induce vomiting for the unconscious. It is allowed to clean up the oral dirt and then drink 2- 4 cups of water. Seek medical attention immediately.

## Part V fire fighting measures

Hazard characteristics:

If dust accumulates, it may cause dust explosion in case of open fire or static electricity. During combustion, strong irritating toxic gas is produced due to thermal decomposition and oxidation.

Harmful combustion products: Carbon monoxide and nitrogen oxides.

Fire extinguishing method and extinguishing agent:

In case of fire, direct water cannot be used, but mist water, dry powder, foam and carbon dioxide can be used.

Precautions for fire fighting:

It is recommended that firefighters wear fire and poison proof clothes, fire protection boots, positive pressure self-contained breathing apparatus and personal protection.

## Part VI emergency treatment for leakage

Emergency treatment:

Cut off the fire source. Evacuate the personnel in the contaminated area to a safe place, isolate them and strictly restrict their access. It is recommended that emergency personnel wear self-contained positive pressure respirator and protective clothing. Cut off the source of leakage as much as possible. Prevent entering into restricted spaces such as sewers and flood drainage ditches. The leakage shall be



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collected in a special collector by vacuum or cleaning method, and then recovered or transported to the waste treatment site for treatment. Avoid dust.

### Part VII operation, disposal and storage

Precautions for operation and disposal:

Close operation and strengthen ventilation. The operators must be specially trained and strictly abide by the operating regulations. It is recommended that personnel wear self-priming filter respirators, chemical safety glasses, protective clothing and chemical resistant gloves. Keep away from kindling and heat sources. Smoking is strictly prohibited in the workplace. Avoid contact with strong oxidants and reducers. When handling, it shall be loaded and unloaded with care to prevent damage to packages and containers, pay attention to good ventilation, reduce the generation and accumulation of dust, avoid inhaling dust, vapor, smoke or gas, avoid skin contact and entering eyes, and take preventive measures to prevent electrostatic discharge. Fire fighting equipment of corresponding varieties and quantities shall be provided. If the concentration of leakage in the air exceeds the standard, it is recommended to wear self-priming filter respirator. When rescuing or evacuating in case of emergency, the equipment shall be handled in an emergency manner and the possible residual hazardous substances in the container shall be emptied.

Storage precautions:

Store in a cool, ventilated and dry warehouse, and the package must be sealed. Keep away from fire and heat source. Keep away from strong oxidants, etc. Fire fighting equipment of corresponding varieties and quantities shall be provided. The storage area shall be equipped with leakage emergency treatment equipment and suitable storage materials.

### Part VIII contact control / personal protection

Engineering control:

The production process is closed and ventilation is strengthened.

Respiratory system protection: Wear filter respirator

Eye protection: Wear chemical safety glasses

Physical protection: Wear protective clothing

Hand protection: wear chemical resistant gloves



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Other protection:

Smoking, eating and drinking are prohibited at the work site. Avoid drinking alcoholic beverages before work. Shower after work Bath and dressing. Pre employment and regular physical examination.

### Part IX physical and chemical characteristics

Appearance and properties:

This product is white or light yellow flake crystal, and the appearance of its melt is transparent liquid without visible impurities.

Melting point (°C): 120.5 ~ 122.0

PH value: 6.5 ~ 7.2

Solubility: soluble in ethanol, acetone and other organic solvents.

Molecular formula:  $C_{15}H_{16}N_2O$

Molecular weight: 240.14

Main uses:

This product is mainly used as a stabilizer for smokeless drugs, explosives and nitro compounds.

### Part X stability and reactivity

Stability: stable

Prohibited substances:

Prohibited substances, substances with conflicting chemical properties, strong oxidants, strong reducing agents.

Conditions to avoid contact: open fire, high heat.

Polymerization hazard: cannot occur

Decomposition products: carbon monoxide, carbon dioxide and nitrogen oxides.

### Part Xi toxicological data

Acute toxicity: no data

### Part XII waste disposal

Precautions for disposal:



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Strictly abide by relevant national laws, regulations and standards, and consult the manufacturer if necessary.

### Part XIII transportation information

Packaging method:

Cylindrical paper barrel lined with polyethylene bag (25.50kg), composite paper bag or woven bag.

Precautions for transportation:

Avoid exposure to sunlight, rain and moisture. Transportation: follow the specified route.

