

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0231
PRODUCT NAME WS-5
SUPPLIER Shanghai M & U International Trade Co., Ltd.
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FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Emergency Overview

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye damage/irritation, category 2A

GHS Label elements, including precautionary statements

Pictogram:



Signal word

Warning

Hazard statement(s)

H319 Causes serious eye irritation

Precautionary statement(s)

P264 Wash hands thoroughly after handling
P280 Wear protective gloves and eye protection
P337 P313 If eye irritation persists: Get medical attention.
P351 Rinse cautiously with water for several minutes.

HMIS Classification

Health hazard 1
Flammability 1
Physical hazards 1

NFPA Rating

Health hazard 1

Fire 1

Reactivity Hazard 0

Potential Health Effects**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion

May be harmful if swallowed.

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

| | |
|--------------------------|--------------|
| SYNONYM: | N/A |
| Formula: | C15 H27 NO3 |
| Molecular Weight: | 269.38 g/mol |
| CAS-No.: | 68489-14-5 |
| EC-No.: | N/A |
| Index-No.: | N/A |
| Concentration: | N/A |

4. FIRST-AID GUIDE:**General advice**

Take phrases in section 2 and 15 into account

If inhaled

Remove from the exposure area to fresh air. Contact a doctor if necessary.

In case of skin contact

Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

In case of eye contact

Flush with plenty of water and seek medical advice if necessary.

If swallowed

Wash mouth with plenty of water and obtain medical advice immediately.

5. FIRE-FIGHTING GUIDE:

Suitable extinguishing media

Carbon dioxide, foam or dry powder

DO NOT USE A DIRECT WATER JET.

In case of overheating, cool containers to avoid a pressure increase.

Special protective equipment for firefighters

Wear protective clothing and avoid inhalation of vapours.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions - Carbon dioxide and unidentified organic compounds.

6. ACCIDENTAL RELEASE GUIDE:

Personal precautions

Remove all sources of ignition.

Avoid inhalation, skin and eye contact.

Ensure proper ventilation.

Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water.

Methods and materials for containment and cleaning up

Soak up spillage with sand or other inert absorbent material such as earth or vermiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

7. HANDLING AND STORAGE:

Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes.

Conditions for safe storage

Store in tightly sealed original containers away from ignition sources and in a cool place.

8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES:

| | |
|------------------------------------------------|----------------------------|
| Appearance | |
| Form | SOLID |
| Colour | WHITE TO OFF WHITE |
| Safety data | |
| pH | no data available |
| Melting point (°C) | 80-82 |
| Boiling point (°C) | no data available |
| Flash point (°F) Closed cup | >200 |
| Ignition temperature | no data available |
| Auto ignition temperature | no data available |
| Lower explosion limit | no data available |
| Upper explosion limit | no data available |
| Vapour pressure (mm Hg@20 °C) | no data available |
| Density @25 °C | no data available |
| Water solubility | INSOLUBLE |
| Partition coefficient (n-octanol/water) | no data available |
| Relative vapour density | no data available |
| Odor | FAINTLY MENTHOLIC, COOLING |
| Odour Threshold | no data available |
| Evaporation rate | no data available |

10. STABILITY AND REACTIVITY:

Chemical stability

No data available

Possibility of hazardous reactions

No data available

Conditions to avoid

Extreme temperatures

Materials to avoid

Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.

Hazardous decomposition products

Not determined

11. TOXICOLOGICAL INFORMATION:**Acute toxicity****Oral LD50**

No data available

Inhalation LC50

No data available

Dermal LD50

No data available

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Signs and Symptoms of Exposure

No data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION:

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL RECOMMENDATIONS:

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORTATION INFORMATION:

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. REGULATORY INFORMATION:

OSHA Hazards

No known OSHA hazards.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA hazards

Massachusetts Right to Know Component

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Component

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know Component

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION:

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC

REVISED: 02/17/2015