

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: Company: Address: Telephone: Fax: e-mail: 2,2'-dimethyl-[1,1'-biphenyl]-4,4'-Diamine Shanghai Liluo Industrial Co., Ltd. Room 5110,Building 5,No.735,Liyang Rd., Shanghai 200080,China +86-(0)21-56973112 +86-(0)21-56721121 blackji@shliluo.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

CAS-No. PRODUCT DENOMINATION	% w/w	Hazard symbols	Risk Phrases (R)
94.67.2.2.2 dimethyl [4.4] hiphopyd] 4.4 Diamina	99%	XI	R22, R40(3), R43,
84-67-3 2,2'-dimethyl-[1,1'-biphenyl]-4,4'-Diamine			R51/53

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Ingestion :

May be harmful if swallowed.

Skin:

Causes skin irritation. May be harmful if absorbed through the skin.

Aquatic life:

May be long term harmful to aquatic invironment.

Inhalation:

Causes respiratory tract irritation. May be harmful if inhaled.

Potential Health Effects:

Not available.

Chronic:

Not available.

4. FIRST AID MEASURES

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration.

If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin

and eyes.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Eyes:

Wear chemical goggles.

Skin:

Wear	appropriate	protective	gloves	to prev	/ent :	skin
expos	sure.					

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	powder
Color:	light pink
Odor:	Not available.
pH:	Not available.
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	344.4 deg C
Freezing/Melting Point:	105 - 106 deg C
Autoignition Temperature:	Not available.
Flash Point:	192.9 deg C
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	
Solubility in water:	
Specific Gravity/Density:	
Molecular Formula:	C14H16N2
Molecular Weight:	212.29

10. STABILITY AND REACTIVITY

Chemical Stability: Not available. Conditions to Avoid: Incompatible materials. Incompatibilities with Other Materials: Strong oxidizing agents. Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide Hazardous Polymerization: Has not been reported

11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 84-67-3 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

2,2'-dimethyl-[1,1'-biphenyl]-4,4'-Diamine Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

SUBSTANCE DISPOSAL

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

ΙΑΤΑ

ICAO-TI and IATA-DGR: 9; UN/ID NO.: 3077; Package: III; Specific Items: A97

IMO

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IMDG: 9; UN NO.: 3077; Package : III; EMS NO.:F-A,S-F; Specific Items:274 909 944; Limit Quantity: 5kg
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RID/ADR

Classes: 9; UN NO.: 3077; U.N. Package: III

15. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xn N

Risk Phrases:

R R22, R40(3), R43, R51/53

Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger/Protection)

No information available.

Germany

WGK: 3

Self-Classification

16. OTHER INFORMATION

The information above is believed to be accurate and represents the bestinformation currently available to us. However, we make no warranty ofmerchantability or any other warranty, express or implied, with respect tosuch information, and we assume no liability resulting from its use. Usersshould make their own investigations to determine the suitability of theinformation for their particular purposes. In no way shall the company beliable for any claims, losses, or damages of any third party or for lostprofits or any special, indirect, incidental, consequential or exemplarydamages, howsoever arising, even if the company has been advised of the possibility of such damages