
Azodicarbonamide

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Azodicarbonamide

Synonyms: 1,1'-Azobisformamide

Trade Names: Azo-Dn 2, Azo-Dn3, Azo-Dn4, Azo-Dn5, Azo-Dn6, Azo-Dn8, Azo-Dn10, Azo-Dn12, Azo-Dn15, Azo-Dn25

Company Identification: Jiangsu SOPO Chemical Co., Ltd.

No. 50 Yuehe Street, Jianbi, Zhenjiang, Jiangsu, China

Emergency Telephone: Wu Yan : 86-511-88783710

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Component	Wt%
123-77-3	Azodicarbonamide	>99.97%

Hazard Symbols: XN

Risk Phrases: 42 44

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

May cause sensitization by inhalation. Risk of explosion if heated under confinement.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

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

Ingestion:

May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation:

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

Chronic:

Not available.

SECTION 4 - FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Exposure to heat may promote violent decomposition. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:

Use water, foam, dry chemical, or carbon dioxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Remove all sources of ignition.

SECTION 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.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

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

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Appearance:	Yellow to orange
Odor:	Not available.
pH:	6-7.
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Autoignition Temperature:	Not available.
Flash Point:	Not applicable.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	200-210 deg C
Solubility in water:	soluble in hot water
Specific Gravity/Density:	1.65
Chemical Formula:	C ₂ H ₄ N ₄ O ₂
Molecular Weight:	116.08

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, temperatures above 190°C.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong acids, strong bases, heavy metal salts.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, ammonia and/or derivatives.
Hazardous Polymerization: Has not been reported.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 123-77-3: LQ1040000

LD50/LC50:

CAS# 123-77-3: Oral, rat: LD50 = >6400 mg/kg; Skin, rat: LD50 = >500 mg/kg.

Carcinogenicity:

Azodicarbonamide -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Biodegradability: 70 % after 28 days (OECD 301 B)

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

IATA

Shipping Name: AZODICARBONAMIDE

Hazard Class: 4.1

UN Number: 3242

Packing Group:

IMO

Shipping Name: AZODICARBONAMIDE

Hazard Class: 4.1

UN Number: 3242

Packing Group: II

RID/ADR

Shipping Name: AZODICARBONAMIDE

Hazard Class: 4.1

UN Number: 3242

Packing group: II

SECTION 15 - REGULATORY INFORMATION

EPA Hazardous Substance: No

US FEDERAL

TSCA

CAS# 123-77-3 is listed on the TSCA inventory

Title III SARA

:

40 CFR part 355 – Extremely hazardous substance:	No
40 CFR part 370 – Extremely chemical reporting:	No
40 CFR part 372 – Toxic chemical:	No
SARA section 311 (EPA Hazardous categories)	No

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste as defined in 40 CFR 261, subpart C. Local, state and the federal laws should be observed during disposal.

Is this a listed material?

NTP (List)	No
LARC (Monographs)	No
OSHA (Carcinogen)	No
ACGIH (TLV list)	No

Canada

CAS# 123-77-3 is listed on Canada's DSL List.

CAS# 123-77-3 is not listed on Canada's Ingredient Disclosure List

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

- R 42 May cause sensitization by inhalation.
- R 44 Risk of explosion if heated under confinement.

Safety Phrases:

- S 22 Do not breathe dust.
- S 24 Avoid contact with skin.
- S 37 Wear suitable gloves.

WGK (Water Danger/Protection)

CAS# 123-77-3: 1

United Kingdom Occupational Exposure Limits

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 1/1/2014

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.

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