



The Chemical Company
19 Narragansett Avenue
Jamestown, RI 02835
Phone: (401) 423- 3100

Material Safety Data Sheet

1. Supplier and Substance Identification

Product **DICYandiamide 99.5%**
Synonym Cyanoguanidine
Molecular Formula $C_2H_4N_4$
Molecular Weight 84.08
Supplier The Chemical Company
19 Narragansett Avenue
Jamestown, RI 02835 USA
Phone : 401.423.3100
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2.Composition /Information on ingredients

CAS 461-58-5
Chemical Name **DICYANDIAMIDE, 99.5%**
Hazard Symbols XN
Risk Phrases 20/21/22

3.Hazard Identification

EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed.

POTENTIAL HEALTH EFFECTS

Eye May cause eye irritation.
Skin Harmful if absorbed through the skin.
Ingestion Harmful if swallowed. The toxicological properties of this substance have not been fully investigated.
Inhalation Harmful if inhaled. The toxicological properties of this substance have not been fully investigated.
Chronic Not available.

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. Get medical aid.

5.Fire Fighting Measures

General Information As in any fire, wear a self-contained breathing apparatus in pressuredemand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Extinguishing Media In case of fire, use water, dry chemical, chemical foam, or alcohol resistant foam.

6.Accidental Release Measures

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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.

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 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 European Standard EN166.

Skin Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing Wear appropriate protective clothing to prevent skin exposure.

Respirators Follow the OSHA respirator regulations found in European Standard EN 149.

Always use European Standard EN 149 approved respirator when necessary.

9. Physical and Chemical Properties

Physical State	Crystalline powder
Appearance	white
Odor	Not available.
pH	Not available.
Vapor Pressure	Not available.
Viscosity	Not available.
Boiling Point	Not available.
Freezing/Melting Point	208.00 - 211.00 deg C
Auto ignition Temperature	Not available.
Flash Point	Not available.
Explosion Limits, lower	Not available.
Explosion Limits, upper	Not available.
Decomposition Temperature	
Solubility in water	32 g/l in water (20 c)
Specific Gravity/Density	
Molecular Formula	C ₂ H ₄ N ₄
Molecular Weight	84.08

10. Stability and Reactivity

Chemical Stability Stable under normal temperatures and pressures.

Conditions to Avoid Incompatible materials. Incompatibilities with Other Materials Strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition Products Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization Has not been reported.



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11. Toxicological Information

RTECS# CAS# 461-58-5: ME9950000

LD50/LC50 CAS# 461-58-5: Oral, mouse: LD50 = >10 gm/kg.

Carcinogenicity **DICYANDIAMIDE**, 99.5% - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

12. Ecological Information

13. Disposal Consideration

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

14. Transport Information

IMO INFORMATION

Shipping Name -- Not regulated.

Hazard Class ---

UN Number ---

Packing Group ---

15. Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols

XN

Risk Phrases

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 461-58-5: 1

United Kingdom Occupational Exposure Limits

16. Other Information