

2-Nitroaminoimidazoline 5465-96-3 MSDS

Section 1. IDENTIFICATION

Product name: 2-Nitroamino-2-imidazoline

Revision number: 5

Section 2. HAZARDS IDENTIFICATION

GHS classification

PHYSICAL HAZARDS Not classified

HEALTH HAZARDS

Skin corrosion/irritation Category 2

Category 2A

Serious eye damage/eye irritation

ENVIRONMENTAL HAZARDS Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols

Signal word Warning

Hazard statements Causes skin irritation

Causes serious eye irritation

Precautionary statements:

Wash hands thoroughly after handling.

[Prevention]

Wear protective gloves/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

[Response]

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Components: 2-Nitroamino-2-imidazoline

Percent:

CAS Number: 5465-96-3

Synonyms: 2-(Nitroimino)imidazolidine

C3H6N4O2

Chemical Formula:

Section 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

2-Nitroamino-2-imidazoline

Section 4. FIRST AID MEASURES

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of

soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

A rescuer should wear personal protective equipment, such as rubber gloves and air-

Protection of first-aiders:

tight goggles.

Section 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from fire:

Explosion risk in case of fire. Fight fire remotely due to the risk of explosion.

from the chemical: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

Section 6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Personal precautions, protective equipment and Entry to non-involved personnel should be controlled around the leakage area by emergency procedures: roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for cleaning: Sweep dust to collect it into an airtight container, taking care not to disperse it.

Containment and cleaning: Adhered or collected material should be promptly disposed

**of, in accordance with
up: appropriate laws and regulations.**

Section 7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment.

Be careful not to cause leakage, overflow, or dispersion. Steam should not be generated unnecessarily. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Avoid shock and friction. Wash hands and face before breaks and immediately after handling the product.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

Be sure not to give the container unexpected impacts, such as falling down or falling off.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be

exposed directly. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Protective gloves.

Hand protection:

Eye protection: Safety glasses. A face-shield, if the situation requires.

2-Nitroamino-2-imidazoline

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Crystal- Powder

Form:

Colour: White - Almost white

No data available

Odour:

pH: No data available

Melting point/freezing point: 222°C

Boiling point/range: No data available

Flash point: No data available

Flammability or explosive

limits:

Lower: No data available

Upper: No data available

Relative density: No data available

Solubility(ies):

[Water] No data available

[Other solvents] No data available

Section 10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous reactions: May explosively decompose on heating, shock, friction, etc.

Conditions to avoid: Heat, Shock, Friction

Incompatible materials: Oxidizing agents, Acids

Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO_x)

Section 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available

NTP = No data available

Reproductive toxicity: No data available

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:
No data available

Fish:

Crustacea: No data available
No data available

Algae:

Persistence / degradability: No data available
No data available

Bioaccumulative potential(BCF):

Mobility in soil**Log Pow:** No data available**Soil adsorption (Koc):** No data available**Henry's Law** No data available**constant(PaM³/mol):****2-Nitroamino-2-imidazoline****Section 13. DISPOSAL CONSIDERATIONS**

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able

to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with

an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may

occur. Observe all federal, state and local regulations when disposing of the substance.

Section 14. TRANSPORT INFORMATION**Hazards Class:** Does not correspond to the classification standard of the United Nations**UN-No:** Not listed**Section 15. REGULATORY INFORMATION****Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002****and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport,**

loading and unloading were prescribed.

SECTION 16 - ADDITIONAL INFORMATION

N/A