

Material Safety Data Sheet

Section 1: Chemical Product

Product Name: Nitrogen Reagent

Product Use: Reagent for analysis **CAS**

No. Description: 7681-57-4

Section 2: Hazards Identification

Potential Acute Health Effects:

Hazard Description: Xn Harmful

Very toxic material causing other toxic effects

Information pertaining to particular dangers for man and environment:

R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas. R41

Risk of serious damage to eyes.

NFPA ratings (scale 0-4)

Health=2 Fire=0

Reactivity=1

Section 3: Composition

Chemical Characterization: inorganic salt

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping e General information: Immediately remove any clothing soiled by the product.

After Inhalation:

Supply fresh air; consult doctor in case of complaints.

After Skin Contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After Eye Contact:

Rinse opened eye for several minutes (15min) under running water. Call a doctor immediately.

After Swallowing:

Drink copious amount of water, induce vomiting.

Immediately call a doctor.

Information for doctor: Sulfites are strong sensitizers. **The**

following symptoms may occur after swallowing:

Irritations

Allergic reactions

Profuse sweating

CNS disorders

Depressions After

inhalation

Coughing

Mucous membrane irritation

Breathing difficulty

Section 5: Fire Fighting Measures

Suitable Extinguishing Agents: Use firefighting measures that suit the environment.

Special Hazards:

Caused by the material, its products of combustion or resulting gases;

Formation of toxic gases is possible during heating or in case of fire. Sulfur

Oxides

Protective Equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Section 6: Accidental Release Measures

Person-related Safety Precautions:

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Measures for Environmental Protection:

Do not allow product to reach sewage system or any water course.

Measures for Cleaning/ Collection:

Dispose contaminated material as waste according to item 13.

Pick up mechanically

Ensure adequate ventilation.

Section 7: Handling and Storage**Safe Handling:**

Thorough dedusting.

Information about protection against explosions and fires:

The product is not flammable.

Storage:

Store in a cool location.

Do not store together with acids.

Store away from oxidizing agents.

Protect from heat and direct sunlight.

Store in dry conditions.

Protect from humidity and water.

Protect from exposure to the light.

Section 8: Exposure Controls/Personal Protection

Personal Protective Equipment:

General Protective and Hygienic Measure:

Keep away from foodstuffs, beverage and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and the end of work.

Avoid contact with the eyes.

Breathing Equipment:

Use respiratory protective device against the effects of fumes/dust/aerosol.

Protection of Hands:

After use of gloves apply skin-cleaning agents and skin cosmetics.

Eye Protection:

Tightly sealed goggles.

Body Protection:

Protective work clothing

Section 9: Physical and Chemical Properties

Odor: Pungent

Form: Powder

Color: Colorless

Boiling Point/Boiling Range: Not applicable

Freezing Point: Not applicable

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Thermal Decomposition/ Conditions to be avoided:

Strong heating

Materials to be avoided:

Acids

Oxidizing Agents

Dangerous Reactions:

Contact with acids releases toxic gases.

Dangerous Products of Decomposition:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)

Sulfur oxides(SO_x)

Section 11: Toxicological Information

Acute Toxicity

On the Skin: Irritant to skin and mucous embranes.

On the Eye: Strong irritant with the danger of severe eye injury.

Sensitization:

Sensitizing effect through inhalation is possible with prolonged exposure.

Sensitizing effect by skin contact is possible with prolonged exposure.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Information about Elimination (persistence and degradability):

Other Information:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Does not cause biological oxygen deficit.

General Notes:

Water hazard class 1 (assessment by list): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Section 13: Disposal Considerations

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposer.

Uncleaned Packagings:

Recommendations: Disposal must be made according to official regulation.

Recommended Cleaning Agent: Water, if necessary with cleansing agents.

Section 14: Transport Information

TDG/DOT Regulation:

Hazard Class: None

Land Transport ADR/RID (cross-border):

ADR/RID Class: None

Maritime Transport IMDG:

IMDG Class: None

Marine Pollutant: No

Transport/Additional Information:

Not dangerous according to the above specifications.

Section 15: Other Regulatory Information

Product Related Hazard Information:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard Symbols:

Xn Harmful

Risk Phrase:

- 22 Harmful if swallowed.
- 31 Contact with acids liberate toxic gas.
- 41 Risk of serious damage to eyes.

Safety Phrases:

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 39 Wear eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

Information about Limitation of Use:

- Employment restriction concerning young persons must be observed.
- Employment restrictions concerning pregnant and lactating women must be observed.

Water Hazard Class:

Water hazard class 1 (assessment by list); slightly hazardous for water.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific Product features and shall not establish a legally valid contractual relationship.

Recommended Restriction of Use:

Professional/ Industrial use only

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. Users should make their own investigations to determine the suitability of the information for their particular purposes.