AERCHEM INC.

320 North Walnut Bloomington, IN 47404

Tel: 812.334.9996 Fax: 812.334.1960 Emergency: 800.424.9300 **SECTION 1: IDENTIFICATION Effective Date:** 6/98 MAGNESIUM NITRATE HEXAHYDRATE **Product Name:** Dusicnan Hoecnaty (Czech) * Nitric Acid, Magnesium Salt, Hexahydrate Synonyms: CAS No.: 13446-18-9 **SECTION 2: HAZARDS IDENTIFICATION:** LABEL PRECAUTIONARY STATEMENTS: **OXIDIZING IRRITANT** CONTACT WITH COMBUSTIBLE MATERICAL MAY CAUSE FIRE. IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. TARGET ORGANS: **BLOOD** CENTRAL NERVOUS SYSTEM KEEP AWAY FROM COMBUSTIBLE MATERIAL **SECTION 3: PHYSICAL DATA** Odor: n/a Appearance: solid Melting point.: 90 - 100C Boiling point: n/a Decomposition temperature: n/a pH (depends on quality): n/a Solubility in water: water-ssoluble, ethanol-soluble Specific gravity (water = 1) 1.464 Vapor density: n/a Vapor pressure: n/a **SECTION 4: FIRE AND EXPLOSION DATA** Flash point: n/a Flammable limit: n/a Flammability: n/a Extinguishing media: water spray Fire fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Unusual fire and explosions hazards: Emits toxic fumes under fire conditions. May accelerate combustion. Contact with combustible materical may cause fire. **SECTION 5: REACTIVITY DATA** Stable Unstable X **Decomposition byproducts:** Toxic fumes of Nitrogrn Oxides **Incompatibilities/Condition to Avoid:** Strong reducing agents Strong acids Organic materials Finely powdered metals Dimethylforamide **Hazardous Polymerization:**

SECTION 6: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: Evacuate area. Wear a self-contained breathing apparatus, rubber boots and heavy rubber gloves.

Cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal.

Ventilate area and wash spill site after material is picked up.

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Disposal: Contact a licensed professional waste disposal servicer to dispose of this material. Observe all

federal.

state and local environmental regulations.

SECTION 7: FIRST AID PROCEDURES

Eye Contact: In case of contact, immediately flush eyes with copious amounts of water for at least 15

minutes.

Skin Contact: In case of contact, immediately flush skin with copious amounts of water for at least 15

minutes while removing contaminated clothing. Wash contaminated clothing before

reuse.

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

difficult, give oxygen.

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

SECTION 8: HANDLING AND STORAGE INFORMATION:

A mixture of aluminum powder, water and metal nitrate may explode due to a self-accelerating reaction. Mixtures of metal nitrates with alkyl esters may explode, owing to the formation of alkyl nitrates. Mixtures of a nitrate with phosphorous, tin (2) chloride or other reducing agents may react explosively, Mixtures of metal nitrates and phosphinates explode on heating. Mixtures containing nitrates, nitrites, and organic materials are potentially dangerous, especially in the presence of acidic materials and heavy metals. In compatible with cyanides, thiocyanates, isothiocyanates, hypophosphites.

SECTION 9: SPECIAL PROTECTION INFORMATION:

Ventilation: Use only in a ventilation hood.

Skin Protection: Wear chemical-resistant gloves, protective clothing.

Eye Protection: Safety goggles.

Respiratory Protection: Wear appropriate NIOSH/MSHA-approved respirator

Other: Safety shower and eye bath.

Do not breathe dust.

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Irrritant.

Keep tightly closed.

Do not store near, or allow contact with clothing and other combustible material.

Store in a cool, dry place.

SECTION 10: TOXICOLOGICAL INFORMATION

Acute Effects: May be harmful by inhalation, ingestion or skin absorption.

Causes eye and skin irritation.

Material is irritating to mucous membranes and upper respiratory tract.

Absorption into the body leads to the formation of Methemoglobin which in sufficient

concentrations causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

TARGET ORGANS:

Blood

Central Nervous System

NOTE: To the best of our knowledge, the chemical, physical and toxicological properties have not

been thoroughly investigated.

Irritation Data: SKN-RBT 500 MG/24H MLD 28ZPAK -,9,1972

EYE-RBT 500 MG/24H MLD 28ZPAK -,9,1972

Toxicity Data: ORL-RAT LD50:5440 MG/KG

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Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

SECTION 11: ECOLOGICAL INFORMATION:

DATA NOT YET AVAILABLE

SECTION 12: REGULATORY INFORMATION

EUROPEAN INFORMATION:

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

OXIDIZING

IRRITANT

R8

CONTACT WITH COMBUSTIBEL MATERIAL MAY CUASE FIRE.

R26/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

S17

KEEP AWAY FROM COMBUSTIBLE MATERIAL.

S26

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

S36

WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 13: OTHER INFORMATION:

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NO PURPORT TO BE ALL INCLUSIVE AND SHALL BE SUED ONLY AS A GUIDE. AERCHEM SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.