

MAGNESIUM PHOSPHIDE**0744**

March 1998

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 RTECS No: OM4200000
 UN No: 2011
 EC No: 015-005-00-3

Trimagnesium diphosphide
 Mg_3P_2 / Mg=P-Mg-P=Mg
 Molecular mass: 134.9

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible but forms flammable gas on contact with water or damp air. Gives off irritating or toxic fumes (or gases) in a fire.	NO open flames, NO sparks, and NO smoking. NO contact with water.	Carbon dioxide, dry sand, NO water.
EXPLOSION	Risk of fire and explosion on contact with water or damp air.		

EXPOSURE		PREVENT DISPERSION OF DUST! AVOID EXPOSURE OF ADOLESCENTS AND CHILDREN!	IN ALL CASES CONSULT A DOCTOR!
Inhalation	Abdominal pain. Burning sensation. Cough. Dizziness. Dullness. Headache. Laboured breathing. Nausea. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest. Artificial respiration if indicated. Refer for medical attention.
Skin		Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Convulsions. Diarrhoea. Unconsciousness. Vomiting. (Further see Inhalation).	Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Rest. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Evacuate danger area! Consult an expert! Do NOT wash away into sewer. Sweep spilled substance into sealable containers. Carefully collect remainder, then remove to safe place. Personal protection: gas-tight chemical protection suit including self-contained breathing apparatus.	F Symbol T+ Symbol N Symbol R: 15/29-28-50 S: (1/2-)22-43-45-61 UN Hazard Class: 4.3 UN Subsidiary Risks: 6.1 UN Pack Group: I Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	SAFE STORAGE
Transport Emergency Card: TEC (R)-43GWT2-I	Fireproof. Provision to contain effluent from fire extinguishing. Should be stored dry in sealed, polyethylene-lined drums. Separated from food and feedstuffs. See Chemical Dangers. Dry. Well closed.

IMPORTANT DATA

Physical State; Appearance

YELLOW TO GREEN CRYSTALS

Chemical dangers

The substance decomposes on heating producing toxic fumes including phosphorus oxides and phosphine, which increases fire hazard. Reacts with water, air moisture, violently with acids, producing phosphine causing fire and toxic hazard.

Occupational exposure limits

TLV not established.

Routes of exposure

The substance can be absorbed into the body by inhalation of powdered material or dust, and by ingestion.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of short-term exposure

The substance is irritating to the eyes and the respiratory tract. See Notes.

PHYSICAL PROPERTIES

Melting point: >750°C
Density: 2.1 g/cm³

Solubility in water: reaction

ENVIRONMENTAL DATA

Avoid release to the environment in circumstances different to normal use.

NOTES

Reacts violently with fire extinguishing agents such as water.

Do NOT take working clothes home.

Detiaphos, Mag-disc, Magtoxin, and Phostoxin are trade names.

Also consult ICSC 0694 Phosphine.

Card has been partly updated in October 2004. See sections Occupational Exposure Limits, EU classification, Emergency Response.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible