

MSD ISOTOPES

DIVISION OF MERCK FROSST CANADA INC., Montreal, Canada
P.O. Box 899, Pointe Claire - Dorval, Quebec, Canada H9R 4P7

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PO 88X72367 REA. B7654

MATERIAL SAFETY DATA SHEET

MSD ISOTOPES SHEET NO. 5180 A

Phone (800) 325-9034, (514) 697-2823

SECTION 1. MATERIAL IDENTIFICATION

NAME: 2,4-DINITROPHENOL
SYNONYMS: alpha-Dinitrophenol
MSD ISOTOPE NUMBER: MD-2285

51-28-5

received
3/19/92

SECTION 2. HAZARDOUS INGREDIENTS

2,4 Dinitrophenol > 99%

ORAL LD₅₀: 30 mg/kg (rat) DERMAL LDLo: 700 mg/kg (g.pig)
TLV: None verified (TOXIC)
WARNING: IRRITANT
MUTAGEN INDICATIONS

SECTION 3. PHYSICAL DATA

Melting Point (deg C): 112 Specific Gravity (H₂O=1): 1.68
Water Solubility(%): 0.14 (54°) Vapor Density (Air=1): 6.35
Volatiles (%): Sublimes
Appearance and Odor: Yellow Crystals

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (deg C): Not available
Autoignition Temp (deg C): Not available
Extinguishing Media: CO₂, dry chemical, alcohol foam

Fire Fighting Procedures: Self-contained breathing apparatus

Unusual Fire and Explosion Hazards: Toxic NO_x fumes on decomposition

SECTION 5. REACTIVITY DATA

Stable
Incompatibility (material to avoid): Strong oxidizing/reducing agents
Hazardous Decomposition Products: CO/CO₂ and NO_x fumes on combustion

SECTION 6. HEALTH HAZARD INFORMATION

TLV: None verified (Toxic)

Effects of Overexposure: Increase in metabolism, nausea, vomiting, dermatitis, cataracts

First Aid Procedures:

Contact: Wash with water

Inhalation: Remove to fresh air, artificial respiration or oxygen if necessary

Ingestion: Give water and induce vomiting

Summon a physician

SECTION 7. SPILL, LEAK, and DISPOSAL PROCEDURES

Spill Procedures: Provide good ventilation

Carefully scoop up and transfer to a closed metal container

Disposal Procedures: Via licensed disposal company

Dispose of according to Federal and local regulations

SECTION 8. SPECIAL PROTECTION INFORMATION

Ventilation: Local Exhaust: Good Fumehood

Special: Mutagen Indications

Respiratory Protection: Self-contained breathing apparatus or chemical cartridge

Eye Protection: Glasses

Protective Gloves: Rubber

Other Protective Equipment: Protective clothing

Provide safety showers and eyewash station near workplace

SECTION 9. SPECIAL PRECAUTIONS and COMMENTS

Handling and Storing: Adequate ventilation

Protect from light, moisture and heat sources

The product is not radioactive. The data given for this product are those of the corresponding unlabeled product unless specifically indicated otherwise. Safety data for the labeled compounds are generally unavailable but the hazards and properties are assumed to be similar or identical to those of the unlabeled compound. While the information set forth is believed to be accurate, Merck & Co. and Merck Frosst Can. Inc. extend no warranties with respect hereto and disclaim all liabilities from reliance thereon. All judgements as to the suitability of the data presented with respect to the use of this product are the responsibility of the purchaser and intended user.

APPROVALS DATE: November 22, 1985

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SAFETY/HYGIENE

R Berry
M. J. Prouche