

DYSPROSIUM(III) NITRATE CAS No 100641-13-2

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Dysprosium(III) Nitrate
	CAS-No.	:	100641-13-2
1.2	2 Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	3 Details of the supplier of the safety data sheet		
	Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA
	Telephone Email	:	+91 11 49404040 <u>care@cdhfinechemical.com</u>

1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 2), H272 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 Pictogram

iciogram

Signal word



May intensify fire; oxidizer.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary statement(s)	Keep/Store away from clothing/ combustible materials.
P220	Avoid breathing dust.
P261	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P305 + P351 + P338	contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

:	$DyN_3O_9 \cdot xH_2O$
:	348.52 g/mol
:	100641-13-2
:	233-410-5
	:

Hazardous ingredient Component	Concentration			
Dysprosium(III) nitrate hy drate				
CAS-No.	10031-49-9	Ox. Sol. 2; Skin Irrit. 2; Eye	<= 100 %	
EC-No.	233-410-5	Irrit. 2; STOT SE 3; H272,		
		H315, H319, H335		

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Nitrogen oxides (NOx), Metal oxides
- 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Sweep up and shovel. V20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

hygroscopic

Storage class (TRGS 510): Oxidizing hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Form: Crystals with lumps
Odour	No data available
Odour Threshold	No data available
рН	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n-	No data available
octanol/water	
Auto-ignition	No data available
temperature Decomposition temperature	No data available
Viscosity	No data available
Viscosity Explosive properties	No data available No data available
	Odour Threshold pH Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapour pressure Vapour density Relative density Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2	Chemical stability Stable under recommended storage conditions.				
10.3	Possibility of hazardous reactions No data available				
10.4	Conditions to avoid No data available				
10.5	Incompatible materials Strong reducing agents, Strong acids				
10.6	Hazardous decomposition products Hazardous decomposition products formed under fire conditions Nitrogen oxides (NOx), Metal oxides Other decomposition products - No data available In the event of fire: see section 5				
SECT	TON 11: Toxicological information				
11.1	Information on toxicological effects				
	Acute toxicity No data availableDysprosium(III) nitrate hydrate				
	Skin corrosion/irritation No data available(Dysprosium(III) nitrate hydrate)				
	Serious eye damage/eye irritation No data available(Dysprosium(III) nitrate hydrate)				
	Respiratory or skin sensitisation No data available(Dysprosium(III) nitrate hydrate)				
	Germ cell mutagenicity				
	No data available(Dysprosium(III) nitrate hydrate)				
	Carcinogenicity				
	IARC: 2A - Group 2A: Probably carcinogenic to humans (Dysprosium(III) nitrate hydrate)				
	Reproductive toxicity No data available(Dysprosium(III) nitrate hydrate)				
	Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.(Dysprosium(III) nitrate hydrate)				
	Specific target organ toxicity - repeated exposure No data available				
	Aspiration hazard				

No data available(Dysprosium(III) nitrate hydrate)

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Dysprosium(III) nitrate hydrate)

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

No data available(Dysprosium(III) nitrate hydrate)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 1477		IMDG: 1477	IATA: 1477
14.2	UN proper shipping name ADR/RID: NITRATES, INORGANIC, N.O.S. IMDG: NITRATES, INORGANIC, N.O.S. IATA: Nitrates, inorganic, n.o.s.			
14.3	Transport ADR/RID: \$	hazard class(es) 5.1	IMDG: 5.1	IATA: 5.1
14.4	Packaging group ADR/RID: II		IMDG: II	IATA: II
14.5	Environme ADR/RID: r	ental hazards าง	IMDG Marine pollutant: no	IATA: no

14.6 Special precautions for user

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- H272 May intensify fire; oxidizer.
- Causes skin irritation. H315
- Causes serious eye irritation. H319
- H335 May cause respiratory irritation.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.