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CHROMIUM (III) NITRATE NONAHYDRATE CAS NO 7789-02-8

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

 Product identifiers

 Product name
 : Chromium (III) Nitrate Nonahydrate

CAS-No. : 7789-02-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Industrial & for profe	essional use only.
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1.3 Details of the supplier of the safety data sheet

Company	: Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi -110002 INDIA
Telephone	: +91 11 49404040
Email	: care@cdhfinechemical.com

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 3), H272 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319

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

Signal word



- 5	5
Hazard statement(s)	
H272	May intensify fire; oxidizer.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ eye protection/ face protection.

	P305 + P351 + P338 P337 + P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.	
	Supplemental Hazard Statements	none	
2.3 SEC1	 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		
	Formula :	Cr(NO ₃) ₃ · 9H ₂ O	
	Molecular weight :	400.15 g/mol	
	CAS-No. :	7789-02-8	
	EC-No. :	236-921-1	

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

Chromium trinitrate			
CAS-No.	7789-02-8	Ox. Sol. 3; Skin Irrit. 2; Eye	<= 100 %
EC-No.	236-921-1	Irrit. 2; H272, H315, H319	

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), Chromium 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.

Concentration

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.\'20 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. 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

Information on basic physical and chemical properties 9.1

3.1		mormation on basic physical and chemical properties		
	a)	Appearance	Form: crystalline Colour: dark violet	
	b)	Odour	No data available	
	c)	Odour Threshold	No data available	
	d)	рН	2.0 - 3.0 at 50 g/l at 20 °C	
	e)	Melting point/freezing point	Melting point/range: 60 °C - lit.	
	f)	Initial boiling point and boiling range	No data available	
	g)	Flash point	Not applicable	
	h)	Evaporation rate	No data available	
	i)	Flammability (solid, gas)	No data available	
	j)	Upper/lower flammability or explosive limits	No data available	
	k)	Vapour pressure	No data available	
	I)	Vapour density	No data available	
	m)	Relative density	No data available	
	n)	Water solubility	No data available	
	o)	Partition coefficient: n-	No data available	
		octanol/water		
	p)	Auto-ignition temperature	No data available	
	q)	Decomposition temperature	No data available	
	r)	Viscosity	No data available	
	s)	Explosive properties	No data available	
	t)	Oxidizing properties	The substance or mixture is classified as oxidizing with the category 3.	
9.2	Oth	ner safety information		
		Bulk density	1 g/l	
SECT	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 Heat

10.5 Incompatible materials Organic materials, Reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Chromium oxides Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 3,250 mg/kg(Chromium trinitrate)

Skin corrosion/irritation

No data available(Chromium trinitrate)

Serious eye damage/eye irritation

No data available(Chromium trinitrate)

Respiratory or skin sensitisation

No data available(Chromium trinitrate)

Germ cell mutagenicity

Human(Chromium trinitrate) fibroblast DNA inhibition Hamster(Chromium trinitrate) ovary Cytogenetic analysis Hamster(Chromium trinitrate) ovary Sister chromatid exchange

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification. (Chromium trinitrate) (Chromium trinitrate)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Chromium trinitrate)

Reproductive toxicity No data available(Chromium trinitrate)

Specific target organ toxicity - single exposure No data available(Chromium trinitrate)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available(Chromium trinitrate)

Additional Information RTECS: GB6300000

RTECS: GB6300000

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(Chromium trinitrate)

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 numbe ADR/RID: 2		IMDG: 2720	IATA: 2720
14.2	4.2 UN proper shipping name ADR/RID: CHROMIUM NITRATE IMDG: CHROMIUM NITRATE IATA: Chromium nitrate			
14.3	Transport h ADR/RID: 5	n azard class(es) .1	IMDG: 5.1	IATA: 5.1
14.4	Packaging ADR/RID: II	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: n	ntal hazards o	IMDG Marine pollutant: no	IATA: no
14.6	Special pre No data ava	ecautions for user ailable		

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.
H315	Causes skin irritation.
H319	Causes serious eye 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.