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Chromium AAS in HNO3 MATERIAL SAFETY DATA SHEET SDS/MSDS **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING** 1. 1.1 **Product identifiers** : Chromium AAS in HNO3 Product name 1.2 Relevant identified uses of the substance or mixture and uses advised against : Laboratory chemicals, Industrial & for professional use only. Identified uses 1.3 Details of the supplier of the safety data sheet Company Central Drug House (P) Ltd • 7/28 Vardaan House New Delhi-10002 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] : 1.4 **Emergency telephone number**

Emergency Phone # : +91 98802 05043

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Acute toxicity, Inhalation (Category 4) Skin irritation (Category 2) Eye irritation (Category 2) Respiratory sensitization (Category 1) Skin sensitization (Category 1) Germ cell mutagenicity (Category 1B) Carcinogenicity (Category 1B) Reproductive toxicity (Category 1B) Chronic aquatic toxicity (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child. Harmful by inhalation. May cause sensitization by inhalation and skin contact. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram



Signal word

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s)	Obtain special instructions before use.
P201	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P261	Avoid release to the environment.
P273	Wear protective gloves.
P280	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P305 + P351 + P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
Supplemental Hazard Statements	none

Restricted to professional users.

According to European Directive 67/548/EEC as amended.

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Hazard symbol(s)

R-phrase(s)	Acute traicity spartic environment
R45	May cause cancer.
R46	May cause heritable genetic damage.
R60	May impair fertility.
R61	May cause harm to the unborn child.
R20	Also harmful by inhalation.
R36/38	Irritating to eyes and skin.
R42/43	May cause sensitization by inhalation and skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the
	aquatic environment.
S-phrase(s)	
S53	Avoid exposure - obtain special instructions before use.
S23	Do not breathe vapour.
S26	In case of contact with eyes, rinse immediately with plenty of water and
	seek medical advice.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately
	(show the label where possible).
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Restricted to professional users.

2.3 Other hazards - none

3.2

COMPOSITION/INFORMATION ON INGREDIENTS 3.

Mixtures Molecular Weight : 18,02 g/mol Component Classification Concentration Nitric acid CAS-No. 7697-37-2 1 - 5 % Ox. Liq. 3; Skin Corr. 1A; EC-No. 231-714-2 H272, H314 007-004-00-1 Index-No. O, C, R 8 - R35

Ammonium dichromate Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) CAS-No. 7789-09-5

Ox. Sol. 2; Acute Tox. 3; Acute 0,5 - 1 %

 EC-No.
 232-143-1

 Index-No.
 024-003-00-1

 Registration number 01-2119661563-36-XXXX

Tox. 2; Acute Tox. 4; Skin Corr. 1B; Resp. Sens. 1; Skin Sens. 1; Muta. 1B; Carc. 1B; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H272, H301, H312, H314, H317, H330, H334, H340, H350, H360FD, H372, H410 E, T+, N, Carc.Cat.2, Repr.Cat.2, Mut.Cat.2, R45 -R46 - R42/43 - R48/23 -R50/53 - R60 - R61 - R 2 - R 8 - R21 - R25 - R26 - R34

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

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 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

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)

5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 **Reference to other sections** For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace 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

Face shield and safety glasses 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

Complete suit protecting against chemicals, 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 a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odour	no data available
c)	Odour Threshold	no data available
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d) pH 6,0 - 8,0 at 25 °C

	e)	Melting point/freezing point	0,0 °C
	f)	Initial boiling point and boiling range	100,0 °C
	g)	Flash point	no data available
	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	1,00 g/cm3
	n)	Water solubility	completely miscible
	0)	Partition coefficient: n- octanol/water	no data available
	p)	Autoignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	no data available
9.2		ner safety information data available	
10.	ST	ABILITY AND REACTIVIT	Y
10.1	Reactivity no data available		
10.2	Chemical stability no data available		
10.3	Possibility of hazardous reactions no data available		
10.4	Conditions to avoid no data available		
10.5	Incompatible materials Gives off hydrogen by reaction with metals.		
10.6	Hazardous decomposition products Other decomposition products - no data available		
11.	TOXICOLOGICAL INFORMATION		
11.1	Information on toxicological effects		
		ute toxicity	
	no	data available	

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity no data available

Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Ammonium dichromate)

Reproductive toxicity no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	Harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: Not available

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
- 12.5 Results of PBT and vPvB assessment no data available
- **12.6 Other adverse effects** Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1	UN numbe ADR/RID: 3	-	IMDG: 3264	IATA: 3264
14.2	UN proper ADR/RID: IMDG: IATA:	CORROSIVE LIQUID,	ACIDIC, INORGANIC, N.O.S. (Nitric ACIDIC, INORGANIC, N.O.S. (Nitric , inorganic, n.o.s. (Nitric acid)	,
14.3	Transport hazard class(es) ADR/RID: 8		IMDG: 8	IATA: 8
14.4	Packaging group ADR/RID: III		IMDG: III	IATA: III
14.5	Environmental hazards ADR/RID: no		IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user no data available			

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- 15.2 Chemical Safety Assessment no data available

no data avallable

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox. Aquatic Acute Aquatic Chronic Carc. H272 H301 H312 H314 H317 H330 H334 H340 H350 H360FD H372 H410 Muta. Ox. Liq. Ox. Sol. Repr. Resp. Sens. Skin Corr. Skin Sens. STOT RE C R 2 R 8 R21	Acute toxicity Acute aquatic toxicity Chronic aquatic toxicity Carcinogenicity May intensify fire; oxidiser. Toxic if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Fatal if inhaled. May cause an allergic skin reaction. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Germ cell mutagenicity Oxidizing liquids Oxidizing solids Reproductive toxicity Respiratory sensitization Skin corrosion Skin sensitization Specific target organ toxicity - repeated exposure Corrosive Risk of explosion by shock, friction, fire or other sources of ignition. Contact with combustible material may cause fire. Harmful in contact with skin.
E	Explosive

Ν	Dangerous for the environment
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R34	Causes burns.
R35	Causes severe burns.
R42/43	May cause sensitization by inhalation and skin contact.
R45	May cause cancer.
0	Oxidising
T+	Very toxic
R46	May cause heritable genetic damage.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R60	May impair fertility.
R61	May cause harm to the unborn child.
Repr.Cat.2	Toxic to Reproduction Category 2

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.