

Page 1 of 7

Product Name: Chromium (III) oxide CAS No.: 1308-38-9 Version: 0

1. Identification

Product Code : 90142, 90371

Company Name : Advent Chembio Private Limited

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2. Composition/Information on Ingredients

IngredientCAS NoPercentCHROMIUM (III) OXIDE1308-38-990-100%

3. Hazards Identification

Emergency Overview: WARNING! HARMFUL IF SWALLOWED OR INHALED.

CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY

TRACT.

Saf-T-Data

Health Rating : 2 - Moderate
Flammability Rating : 0 - None
Reactivity Rating : 1 - Slight
Contact Rating : 2 - Moderate

Potential Health Effects

Inhalation : Causes irritation to the respiratory tract. Symptoms may include

coughing, shortness of breath.

Ingestion : Causes irritation to the gastrointestinal tract. Symptoms may include

nausea, vomiting and diarrhea.

Skin Contact: Causes irritation to skin. Symptoms include redness, itching, and

pain.

Eye Contact : Causes irritation, redness, and pain.

Chronic Exposure : Prolonged or repeated skin contact may produce severe irritation or

dermatitis.

Aggravation of Pre-existing

Conditions

: No information found.



Page 2 of 7

Product Name: Chromium (III) oxide CAS No.: 1308-38-9 Version: 0

4. First Aid Measures

General information : Get medical advice/attention if you feel unwell. If medical advice is

needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Get medical attention.

Ingestion : Induce vomiting immediately as directed by medical personnel.

Never give anything by mouth to an unconscious person. Get medical attention.

medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes

while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical

attention if symptoms occur.

Eye contact : Immediately flush eyes with plenty of water for at least 15 minutes,

lifting upper and lower eyelids occasionally. Get medical attention

Note to Physician : Drinking glycerin, gelatin solutions, or large volumes of water may

delay the hardening of calcium sulfate in the stomach. Surgical relief of obstruction, particularly at the pylorus, may be necessary.

5. Fire fighting measures

Fire : Not considered to be a fire hazard.

Explosion : Not considered to be an explosion hazard.

Fire Extinguishing Media : Use any means suitable for extinguishing surrounding fire.

Special Information : In the event of a fire, wear full protective clothing and NIOSH-

approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

: Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up

: Sweep up and place in a clearly labeled container for chemical waste.

Clean surface thoroughly to remove residual contamination.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas.

Inform authorities if large amounts are involved.

Environmental precautions : Prevent further leakage or spillage if safe to do so. Avoid discharge

into drains, water courses or onto the ground.



Page 3 of 7

Product Name: Chromium (III) oxide CAS No.: 1308-38-9 Version: 0

7. Handling and Storage

Precautions for safe handling

Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

8. Exposure Controls Personal Protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values	Source
CHROMIUM (III)	PEL	0.5mg/m3 (TWA)	OSHA
OXIDE			
CHROMIUM (III)	TLV	0.5 mg/m3 (TWA), A4 - Not classifiable as a	ACGIH
OXIDE		human carcinogen	

Ventilation System

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved)

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece Positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat,

apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection Use chemical safety goggles and/or full face shield where dusting or

splashing of solutions is possible. Maintain eye wash fountain and quick-

drench facilities in work area.





Product Name: Chromium (III) oxide CAS No.: 1308-38-9 Version: 0

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator.

Hygiene measures : Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants. Provide eyewash station and safety shower.

9. Physical and Chemical Properties

Appearance : Light to dark green Crystalline solid.

Odor : Odorless.

pH : No information found Melting point/freezing point : 2435C (4415F) Initial boiling point and boiling : 4000C (7232F)

range

Flash Point : No information found.
Vapor pressure : No information found.
Vapor density : No information found.

Relative density : 5.10

Solubility in water : Negligible (< 0.1%) **Solubility (other)** : No data available.

Formula : Cr_2O_3

Molecular Weight : 151.99 g/mol

10. Stability and Reactivity

Stability : Stable under ordinary conditions of use and storage.

Hazardous Decomposition : Burning may produce sulfur oxides.

Products

Hazardous Polymerization : Will not occur.

Incompatibilities: : Diazomethane, aluminum, phosphorous.

Conditions to Avoid: : Incompatibles.

11. Toxicological Information

Information on likely routes of exposure

Ingestion : May cause irritation of the gastrointestinal tract.

Inhalation : May cause irritation to the respiratory system.

Skin contact : May cause irritation.

Eye contact : May cause temporary eye irritation.





No carcinogenic components identified.

No carcinogenic components identified.

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Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

No data available. **Oral Product Dermal Product** No data available. No data available. **Inhalation Product**

No data available. Repeated dose toxicity Product

May cause skin irritation. **Skin corrosion/irritation Product**

Serious eye damage/eye irritation May irritate eyes.

Product

Not a skin sensitizer. Respiratory or skin sensitization

Product

Carcinogenicity Product This substance has no evidence of carcinogenic properties.

No data available.

No data available.

IARC Monographs on the Carcinogenic components identified.

Evaluation of Carcinogenic Risks

to Humans DIOXANE

US. National Toxicology Program

(NTP) Report on Carcinogens

DIOXANE

US. OSHA Specifically Regulated

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product Mutagenic components identified. In vivo Product Mutagenic components identified. **Reproductive toxicity Product** No components toxic to reproduction.

Specific target organ toxicity -

single exposure Product

Specific target organ toxicity -

repeated exposure Product

Aspiration hazard Product

Not classified. Other effects None known.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product No data available. **Aquatic invertebrates Product** No data available.

Chronic hazards to the aquatic environment:

No data available. **Fish Product Aquatic invertebrates Product** No data available. **Toxicity to Aquatic Plants Product: :** No data available.

Persistence and degradability





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Biodegradation Product BOD/COD ratio Product **Bioaccumulative potential**

Bioconcentration factor (BCF)

Product

Partition coefficient n-octanol /

water (log Kow) Product

Mobility in soil Other adverse effects There are no data on the degradability of this product.

No data available.

No data available on bioaccumulation.

No data available.

No data available. No data available.

13. Disposal consideration

Disposal instructions Discharge, treatment, or disposal may be subject to national, state,

> or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Since emptied containers retain product residue, follow label **Contaminated packaging**

warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant			
			Class(es)	group				
DOT	Not regulated.							
IMDG		No	ot regulated.					
IATA		No	ot regulated.					
			-					

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



Page 7 of 7

Product Name: Chromium (III) oxide CAS No.: 1308-38-9 Version: 0

16. Other Information

Issue Date: 01/08/2014

Version : 0

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