

An ISO 9001: 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel: + 91 98200 41841

Email: info@ottokemi.com Web: www.ottokemi.com

## **MATERIAL SAFETY DATA SHEET (MSDS)**

**SECTION 1: Product identifiers** 

Product Name: Chromium chloride, hexahydrate, GR

Product Code: C 2247 CAS-No.: 10060-12-5

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

Use: Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification OTTO CHEMIE PVT LTD

101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,

Chinchpada, Vasai East, Waliv, Maharashtra 401208.

Email info@ottokemi.com

1.4. Emergency telephone number

Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm)

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

Corrosive to Metals, (Category 1) H290: May be corrosive to metals.

Acute toxicity, (Category 4) H302: Harmful if swallowed.

Skin sensitization, (Sub-category

1B)

H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic

hazard, (Category 2)

Toxic to aquatic life with long lasting effects. H411:

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram Signal Word Warning

Hazard Statements

May be corrosive to metals.

H290 H302 Harmful if swallowed.

May cause an allergic skin reaction. H317

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements** 

P234 Keep only in original packaging.

Avoid breathing dust. P261

P273 Avoid release to the environment.

P280 Wear protective gloves.

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P301 + P312

P302 + P352 IF ON SKIN: Wash with plenty of water.

Supplemental Hazard none

Statements

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction.

**Precautionary Statements** 

P261 Avoid breathing dust. P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of water.

Supplemental Hazard none

DISCLAIMER

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Statements

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.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

3.1 Substances

Formula : Cl3Cr · 6H2O Molecular weight : 266,45 g/mol

CAS-No.: 10060-12-5 EC-No.: 233-038-3

Component	Classification	Concentration
chromium trichloride hexahydrate	7.0	
CAS-No. 10060-12-5 EC-No.233-038-3	Met. Corr. 1; Acute Tox. 4; Skin Sens. 1B; Aquatic Chronic 2; H290, H302, H317, H411	<= 100 %

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

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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 extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

Chromium oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

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Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections For disposal see section 13.

### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

No metal containers.

Tightly closed. Dry.

hygroscopic

Storage class

Storage class (TRGS 510): 8B: Non-combustible, corrosive 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

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**Body Protection** 

protective clothing

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to

the used respiratory protection system.

Recommended Filter type: Filter type P2

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

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### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

a) Physical state solid

b) Color No data available c) Odor stinging

d) Melting point/range: 80 - 83 °C at 1.013 hPa - Elimination of

point/freezing point water of crystallization

Melting point: 1.152 °C at 1.013 hPa - (anhydrous substance)

e) Initial boiling point No data available and boiling range

f) Flammability (solid,gas)

The product is not flammable.

g) Upper/lower No data available

flammability or explosive limits

h) Flash point does not flash No data available

i) Autoignition temperature

j) Decomposition > 1.300 °C temperature

k) pH 2,4 - 2,6 at 50 - 53 g/l at 20 °C Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available

m) Water solubility 590 g/l at 20 °C - soluble

n) Partition coefficient: Not applicable for inorganic substances

n-octanol/water
o) Vapor pressure
p) Density
Relative density
q) Relative vapour

No data available
1,76 g/mL at 25 °C - lit.
No data available
No data available

density
r) Particle
characteristics
No data available

s) Explosive properties
No data available
t) Oxidizing properties
none

9.2 Other safety information No data available

## **SECTION 10: Stability and reactivity**

10.1 Reactivity
No data available

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Exothermic reaction with:

Fluorine Alkali metals

Lithium

10.4 Conditions to avoid

no information available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg

Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

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Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

## **SECTION 12: Ecological information**

12.1 Toxicity

Toxicity to fish static test LC50 - Oncorhynchus mykiss (rainbow trout) - 11,2 - 31,5

mg/l - 96 h

(OECD Test Guideline 203) Remarks: (referred to the cation)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia similis (Water flea) - 9,9 mg/l - 48 h

(OECD Test Guideline 202)

Remarks: The value is given in analogy to the following substances:

chromium(III) chloride

Toxicity to algae ErC50 - Scenedesmus capricornutum (fresh water algae) - 2,0 mg/l

- 96 h

(OECD Test Guideline 201)

Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)

semi-static test NOEC - Daphnia magna (Water flea) - 3,4 mg/l - 21

d

(OECD Test Guideline 211)

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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 Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

No data available

#### **SECTION 14: Transport information**

14.1 UN number

ADR/RID: 3260 IMDG: 3260 IATA: 3260

14.2 UN proper shipping name

ADR/RID: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (chromium trichloridehexahydrate) IMDG: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (chromium trichloridehexahydrate)

IATA: Corrosive solid, acidic, inorganic, n.o.s. (chromium trichloride hexahydrate)

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IATA: 8

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8

14.4 Packaging group
ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no 14.6 Special precautions for user

Tunnel restriction code : (E) Further information : No data available

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the

substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No.

1907/2006.

National legislation

Seveso III: Directive 2012/18/EU of the

European Parliament and of the Council

on the control of major-accident hazards

involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

**E2 ENVIRONMENTAL HAZARDS** 

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **Section 16: Other Information**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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