



Material Safety Data Sheet (MSDS) Report

MSDS Number: 01200821

1. Product Identification:

Product name: Chromium tablet (Cr75%+Flux25%)

Manufactory/ Supplier:

SUMETECH INDUSTRY AND TECHNOLOGY CO.,LTD
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Emergency Telephone: As Above

Informing department: Safety, Health and [Environment](#) (S.H.E.)

Appearance and odour: Grey to sliver solid, odorless

2. Composition

	%wt	CAS No
Chromium	75%	7440-47-3
Potassium aluminium fluoride	25%	13775-52-5

3. Hazards identification

Consider the recommended regulations and safety advice(see no.15) there no particular hazards for man and environment

4. First aid procedures

In case of dust exposure

INHALATION: in case of discomfort, remove to a ventilated area. If discomfort persists, consult a physician

SKIN CONTACT: in case of burns with hot metal, rinse with plenty of cold water. If burn is severe, consult a physician

EYE CONTACT: Flush eyes thoroughly with water, taking care to rinse under eyelids. if irritation persists, continue flushing for 15mintues,rinsing from time to time under eyelids. If discomfort continues, consult a physician.



INGESTION: Not applicable

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Not a fire hazard unless in particle form. Suspensions of chromium dust in air may pose a severe explosion hazard. buffing and polishing generate finer material than grinding, sawing and cutting. Do not use water or halogenated extinguishing media.

HAZARDOUS COMBUSTION PRODUCTS: Not applicable

6. Accidental release measure

Avoid inhalation of and skin contact with any dust.

Wear suitable respiratory protective equipment and gloves if exposure is considered to be like.

7. Handing and storage

HANDING PRECAUTIONS: Because of the risk of explosion, chromium ingot and scrap should be thoroughly dried prior to remelting. Use standard techniques to check metal temperature before handling.hot chromium does not present any warning color change. Exercise great caution,since the metal may be hot. For more information on the handing and storage of chromium, consult the following documents published by ALUMINIUM ASSOCIATION,

-Guidelines for handling molten chromium

-recommendation for storage and handling of chromium powders and paste

-guidelines for handling chromium fines generated during various chromium fabricating operations

STORAGE CONDITIONS: Not applicable.

8. Exposure limits/ Personal protective equipment

Exposure Limits

TWA(8hours) STEL(15minutes)

Chromium and Cr Oxide 0.5 mg/m³



Fluoride 2.5mg/m³ none

Respiratory Protection A suitable dust mask fitted with an appropriate filter may be required. The type of dust mask and filter will be dependent upon dust concentrations

Hand Protection Use suitable gloves if skin contact with surface dust is considered likely.

Eye Protection Not applicable

Skin Protection Not applicable

9. Physical and chemical properties

PH: Not applicable FLASH POINT: Not applicable

Boiling point: Not applicable Autoflammability temperature: Not applicable

Explosive properties: Not applicable

10. Stability and reactivity

Stable(yes/no): Yes

Conditions and material to avoid: Molten chromium may explode on contact with water. In the form of particle, may explode when mixed with halogenated acids, halogenated solvents, bromate or ammonium nitrate. Chromium particles on contact with lead, or chromium oxides can react vigorously with release of heat if there is a source of ignition or intense heat.

HAZARODOUS DECOMPOSITION PRODUCTS: in the form of particles, Chromium reacts with water, strong basic solutions, strong acidic solutions, halogenated acid(eg: hydrofluoric acid)producing flammable hydrogen gas.

11. Toxicological information

Routes of exposure:

INHALATION: Yes INGESTION: No

EYE CONTACT: No SKIN CONTACT: No SKIN ABSORPTION: No

ACUTE EFFECTS:

INHALATION: Solid chromium does not present an inhalation hazard



SKIN CONTACT: Skin contact with hot metal can cause burns

EYE CONTACT: Chromium dust can irritate the eyes(mechanical abrasion)

INGESTION: Not applicable

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THE PRODUCT: Not applicable

12. Ecological information

Chromium and its alloys under solid form, such as ingots or manufactured items, do not present any hazard for environment because are not biologically available. Chromium can be recycled.

General notes: water hazard class (self classified)

S 29: Do not empty into drains. S=safety note

13. Disposal

Recycle. Chromium in the form of particle may be reactive. Its hazardous characteristics, including fire and explosion, should be determined prior to disposal. Dispose of waste in accordance with federal, state, or local regulations.

14. Transportation information

TDGR: not regulated CFR 49: Not regulated IMO: Not regulated ICAO: not regulated

15 Regulatory information

SAFETY PHRASES: Do not breathe dust

Do not breathe fumes

Avoid contact with skin and eyes

16. Further information

Although the information in this MSDS was obtained from sources which we believe to be reliable, it can not be guaranteed. In addition, this information may be used in a



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Department issuing MSDS: SHE manager Mr. Dylan

***End of report**

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