

GHS Safety Data Sheet

SDS No. : MNF01PAEG

Date Issued : 2022/10/11

Section 1. Identification of the substance or mixture and of the supplier

Product Information

Product name: MnCr₂O₄ **Manganese-chromium oxide**

Product number:	Purity	Form	Size or Shape
MNF01PB	99.9%(3N)	powder	—

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
 Phone: +81-49-284-1511 Fax: +81-49-284-1351
 Emergency Phone : +81-49-284-1511

Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Respiratory sensitization : Category 1 Skin sensitization : Category 1	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label: C



Pictograms or symbols:

Warning word: DANGER

Hazard information	Description of precaution
May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergy skin reaction	Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Take off the contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice /attention. Call a POISON CENTER or doctor/physician if you feel unwell. Dispose of contents / container in accordance with local/national regulations.

Section 3. Composition / information on ingredients

Chemical or common name: Chromium manganese oxide
 Synonyms: Manganese chromite, Manganese chromate(III)
 Chemical formula: MnCr₂O₄



High Purity Materials

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Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	12018-15-4 / 69237-17-8
RTECS#:	Not listed
TSCA inventory :	Not listed
EINECS:	Not listed

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section5. Fire fighting measures

Extinguishing media:	The product is not combustible. Use media appropriate for surrounding fire.
Fire fighting:	In case of fire, the product may liberate irritating or toxic gases. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.

Precautions to be taken in storage:

General precautions: Store the material in a sealed container.
Store in a cool, dry, well ventilated and dark place away from incompatible materials.

Section 8. Exposure controls / personal protection

Exposure guideline:	Chemical Name	ACGIH(2019) TLV TWA (mg/m ³)	OSHA(2006) PEL TWA (mg/m ³)
	Manganese compounds, as Mn	0.02(R), 0.1(I)	5(C)
	Chromium(III) compounds, as Cr(III)	0.003(I)	0.5

R: Respirable fraction, I: Inhalable fraction, C: Ceiling limit



High Purity Materials

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Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves etc.

Section 9. Physical and chemical properties

Color and Form: Dark green solid

Chemical formula: MnCr₂O₄

Formula weight: 222.9

Melting point: No data available

Boiling point: No data available

Density: No data available

Water solubility: Insoluble

Flammability: Non-combustible substance

Oxidation: No data available

Section10. Stability and reactivity

Stability: Stable in closed container under room temperature.

Reactivity

Condition to avoid: No data available

Incompatibility: No data available

Section11. Toxicological information

Acute toxicity(Oral): GHS : No data available

Skin corrosive / irritation: GHS : No data available

Serious eye damage / irritation: GHS : No data available

Respiratory sensitization: GHS : Category 1 ; May cause allergy or asthma symptoms or breathing difficulties if inhaled

Skin sensitization: GHS : Category 1 ; May cause an allergy skin reaction

Germ cell mutagenicity: GHS : No data available

Carcinogenicity: GHS : No data available

Chemical Name	ACGIH(2019)	IARC(2022)	NTP(2021)
Chromium(III) compounds	A4	3	—

ACGIH A4 Not classifiable as a human carcinogen.

IARC 3 The agent is not classifiable as to its carcinogenicity to humans.

Reproductive toxicity: GHS : No data available

Specific target organ toxicity

—single exposure: GHS : No data available

—repeated exposure: GHS : No data available

Aspiration hazard: GHS : No data available

Section12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

—short-term(acute) hazard: GHS : No data available

—long-term(chronic) hazard: GHS : No data available

Hazardous to the ozone layer: GHS : No data available

No Freon or Halon

Fish toxicity: No data available

Degradability: No data available



Bioaccumulative potential: No data available
Mobility in soil: No data available

Section 13. Disposal considerations

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN classification: Not hazardous
UN number: None
HS code: 2841.50
Marine pollution: None
Precautions: Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory: Not listed.
Please refer to any other local / national measures that may be relevant.

Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product.

Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

