

Safety Data Sheet

Reference No. 1018

Issue: 10th June 1995
Revision: 1st April 2024

1. Chemical product and company identification

Product name	PACKTEST Manganese	Model	WAK-Mn
Company name	KYORITSU CHEMICAL-CHECK Lab., Corp.		
Address	1-18-2 Hakusan, Midori-ku, Yokohama, Kanagawa 226-0006, JAPAN		
Tel	+81-45-482-6937		
Fax	+81-45-507-3418		
Dept. in charge	Sales Department		

Recommended uses and restrictions Reagent for water quality measurement

2. Hazards identification

Most important hazards information: Irritation

Its effects: Harmful if inhaled or ingested. Contact with eyes, skin and mucous causes irritation.
Long-term exposure may cause discomfort feeling, nausea or headache.

[GHS Classification]

Physical hazards: Classification not possible (no data for GHS classification available)
Health hazards: Classification not possible (no data for GHS classification available)
Environmental hazards: Classification not possible (no data for GHS classification available)

[GHS labeling elements]

None

[Signal word]

None

[Hazard statements]

None

[Precautionary statements]

Keep out of reach of children and store in the dry and dark place at room temperature.
Carefully read instructions before use and do not use for other purposes.
Wear personal protective equipment if necessary.
Do not inhale reagents.
Wash contaminated clothing.
Wash hands thoroughly before and after handling.
Avoid release to the environment.

3. Composition/ information on ingredients

Discrimination of single substance or mixture: Mixture

Reagent name	K-1 reagent		
	Potassium Periodate	Other (not regulated)	Polyethylene
Content	1 – 4.9 %	5 – 9.9 %	80 – 89 %
Chemical formula	KIO ₄	–	(C ₂ H ₄) _n
METI No. (reference number under CSCL in Japan)	1-441	–	6-1
CAS No.	7790-21-8	–	9002-88-4

4. First-aid measures

If reagents or test solutions;

- Enter in eyes: Immediately rinse thoroughly.
- Contact with skin: Immediately wash out contaminated site with plenty of water.
- Enter into mouth: Immediately rinse mouth with plenty of water.

If ingested or in case any symptoms appear after above measures, immediately get medical advice or treatment.

5. Fire-fighting measures

- Extinguishing methods: Cut off ignition sources and extinct by a suitable media.
- Suitable extinguishing media: Water (mist), powder, carbon dioxide, dry sand.

6. Accidental release measures

In case of outdoor use: avoid spill of reagent or waste solution.

In case of indoor use: if spilled on a table or floor, wipe off immediately spilled reagent and dispose of them.

7. Handling and storage

Handling: Avoid contact of reagents with your skin or eyes, and inhalation of those especially powder in tube.

For outdoor use, ensure to bring back reagents, waste solutions after the measurement and used containers.

Storage: Avoid direct sunlight and store in a well-ventilated, dry and dark place at room temperature.

8. Exposure controls and personal protection

Administrative control level:

Working environment standard Not established

Occupational exposure limits:

Japan Society for Occupational health Not established
ACGIH (TLVs) Not established
OSHA (PEL) Not established

Protective equipment: Recommend to wear protective glasses and gloves.

9. Physical and chemical properties

Physical state: K-1: Tube containing powder reagent 1.1 g x 50 tubes/kit (5 tubes per one aluminum laminated packaging)

Color: K-1: White (powder), transparent (polyethylene tube)

Odor: K-1: No odor

pH: 7

Melting point, boiling point, flash point, ignition point, lower explosion limit, vapor pressure, density, relative density, solubility, P_{ow}, kinetic viscosity: not available as a mixture

10. Stability and reactivity

Avoid leaving in a place where high temperature, humid or under direct sunlight.

Stable under normal use conditions and no dangerous reactions under specific conditions are expected.

No information on hazardous decomposition product is available.

11. Toxicological information

No data on mixture is available. Data on each substance are shown.

Potassium Periodate:

Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 2A
Other data: Not available

Polyethylene:

Acute toxicity: Oral-Rat LD₅₀ > 7,950 mg/kg (used 7,950 mg/kg for the calculation of ATE_{mix} below)
Carcinogenicity: IARC Group 3 (not classifiable as to carcinogenicity to humans)
Other data: Not available

GHS classifications as a mixture are shown below.

[Acute toxicity (oral)], [Acute toxicity (dermal)], [Acute toxicity (inhalation)], [Skin corrosion/ irritation], [Serious eye damage/ eye irritation], [Respiratory or skin sensitization], [Germ cell mutagenicity], [Carcinogenicity], [Reproductive toxicity], [Specific target organ toxicity-single exposure], [Specific target organ toxicity-repeated exposure], [Aspiration hazard]

Classifications are not possible because of data lack.

12. Ecological information

No data on mixture is available. Data on each substance are shown.

Potassium Periodate: No eco-toxicological information available.
Polyethylene: No eco-toxicological information available.

GHS classifications as a mixture are shown below.

[Hazardous to the aquatic environment, short-term (acute)],
[Hazardous to the aquatic environment, long-term (chronic)]:

Classifications are not possible because of data lack.

[Harmful effects on the ozone layer]:

Classification is not possible because each of the substances is not described in Annex to Montreal Protocol.

13. Disposal considerations

Always dispose of remaining waste and used containers in accordance with local regulations.

14. Transport information

In addition to precautionary measures regarding handling and storage, avoid rough handling so as not to break containers. Air transportation is recommended for long-distance haul, because under high temperature for long period may lead to deterioration.

UN number: 1479
Proper shipping name: Oxidizing solid, n.o.s.
UN classification: Class 5.1 (Oxidizing substances)
Packing group: II
Civil Aeronautics Act: Same as above. Applicable as Excepted Quantities of Dangerous Goods.
Fire Service Act: Not applicable
Total weight of the product: ca.140 g/kit

15. Regulatory information

Poisonous and Deleterious Substances Control Act: Not applicable

PRTR Act: Not applicable

Industrial Safety and Health Act: Applicable

This product contains more than 1% of Potassium Periodate.

: "Cabinet order, article 18, shall be indicated the Name of the substances, #2"

: "Cabinet order, article 18-2, shall be notified the Name of the substances, #2"

16. Other information

Reference literature

15,911 no Kagaku Shouhin, The Chemical Diary Co., Ltd. (2011)
Safety Data Sheet No. W01W0116-0416 JGHEJP, FUJIFILM Wako Pure Chemical Corporation. (2021.01.12)
Material Safety Data Sheet No.051110033, TOSOH CORPORATION (2004.07.09)
Koukuu Kikenbutsu Yusou Houreisyu, Ed. MLIT, HOUBUN SHORIN CO., LTD. (2019)
JIS Z 7252:2019 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)" (Japanese Industrial Standards Committee)
JIS Z 7253:2019 Hazard communication of chemicals based on GHS-Labeling and Safety Data Sheet (SDS) (Japanese Industrial Standards Committee)
UN GHS (tentative translation, forth revised version), GHS Kankei Syocho Renraku Kaigi (2011)
Ministry of Economy, Trade and Industry, GHS Classification Guidance for Enterprises 2013 Revised Edition (2013)

NOTE) This information is not always exhaustive and use with care.
This data sheet only provides information but any description cannot be warranted.
Descriptions may possibly be changed because of new findings or modification of the current knowledge.
Precautions only cover normal handling.
This English SDS is prepared in the cooperation with the Chemicals Evaluation and Research Institute (CERI), Japan.