

Safety Data Sheet

Reference No. 2310

Issue: 27th November 1995Revision: 1st June 2021

1. Chemical product and company identification

Product name	Reagent Set for Water Analyzer Chromium (Hexavalent)	Model	LR- Cr ⁶⁺
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

[GHS Classification]

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

Health hazards: Skin corrosion/ irritation: Category 1
 Serious eye damage/ eye irritation: Category 1

For those health hazards not listed above are not classified or classification not possible (no data for GHS classification available)

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

[GHS labeling elements]



[Signal word]

Danger

[Hazard statements]

Causes severe skin burns and eye damage.
Causes serious eye damage.

[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 well before and after handling.
Avoid release to the environment.

3. Composition/ information on ingredients

Discrimination of single substance or mixture: Mixture

Reagent name	R-1 reagent	
Chemical name	Diphenylcarbazine	Other (not regulated)
Content	<2%	>98%
Chemical formula	C ₁₃ H ₁₄ N ₄ O	-
METI No. (reference number under CSCL in Japan)	(3)-2202	-
CAS No.	140-22-7	-

4. First-aid measures

If reagents or test solutions;

Enter in eyes: Immediately rinse with water for more than 15 minutes followed by the treatment by an ophthalmologist.

Contact with skin: Immediately wash out contaminated site with plenty of water.

Enter into mouth: Immediately rinse mouth with plenty of water.

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

Especially in case ingested reagents or test solutions, immediately drink plenty of water or milk and 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 reagents and waste solutions.

In case of indoor use: if spilled on a table or floor, wipe off immediately spilled reagents and dispose of them. Do not contact with eyes and skin.

Concentrated waste solution should not be released into sewer or rivers.

7. Handling and storage

Handling: Due to the pH level of reagent or reacted solution will be below 2 (acid), avoid contacting with eyes and skin. Do not inhale the reagent.

Especially 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: Recommended to wear protective glasses and gloves

9. Physical and chemical properties

Physical state: Powder reagent 0.4 g x 50 poly-tubes in aluminum laminated packaging
Color: White (powder: turn to be showy pink in the presence of air)
Odor: No odor
pH: ≤ 2

Melting point, boiling point, flash point, ignition point, lower explosion limit, vapor pressure, density, specific gravity, solubility, Pow, 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 below.

Diphenylcarbazine:
Acute toxicity:
Oral: rats $LDL_{50} > 500$ mg/kg (RTECS)
Other data: Not available

GHS classifications as a mixture are shown below.

[Skin corrosion/ irritation],
pH of mixture ≤ 2 ; Classified as Category 1 (Danger, Causes severe skin burns and eye damage.)
[Serious eye damage/ eye irritation]
pH of mixture ≤ 2 ; Classified as Category 1 (Danger, Causes serious eye damage.)

[Acute toxicity (oral)], [Respiratory or skin sensitization], [Germ cell mutagenicity], [Carcinogenicity], [Reproductive toxicity], [Specific target organ toxicity (single exposure)], [Specific target organ toxicity (repeated exposure)], [Aspiration hazard]

Not classified or classification is not possible because of data lack.

12. Ecological information

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

Diphenylcarbazine: 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)]
Classification is 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

Since pH of waste solution after the measurement is less than 2.

Always dispose of 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. It is recommended to ship by air because under high temperature for long period may lead to deterioration.

UN number: 3316
Proper shipping name: Chemical Kit (Chemical measurement kit)

UN classification: Class 9 (miscellaneous dangerous substances and articles)
Packing group: III
Civil Aeronautics Act: Same as above. Applicable as Limited Quantities of Dangerous Goods.
Fire Service Act: Not applicable
Total weight of the product: ca.80 g/kit

15. Regulatory information

Poisonous and Deleterious Substances Control Act: Not applicable
PRTR Act: Not applicable
Industrial Safety and Health Act: Not applicable
Waste Disposal and Cleaning Act: Applicable
Applicable as Special Controlled Industrial Waste under the act, because pH of waste solution after the measurement is less than 2.

16. Other information

Reference literature

15,911 no Kagaku Shouhin, The Chemical Diary Co., Ltd. (2011)
Material Safety Data Sheet No.JW040392, Wako Pure Chemical Industries, Ltd. (2010.03.26)
Koukoku 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.