Safety Data Sheet

Reference No. 1029

Issue: 12th October 1995
Revision: 1st April 2025

1. Chemical product and company identification

Product name	PACKTEST Total Hardness	Model	WAK- TH
	PACKTEST 10 Tests Package Total Hardness		ZAK- TH

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

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:

Acute toxicity (inhalation):	Category 4
Serious eye damage/eye irritation:	Category 2
Specific target organ toxicity (single exposure):	Category 2 (stomach)

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**]**

Warning

[Hazard statements**]**

Harmful if inhaled.
Causes eye irritation.
May cause damage to stomach.

[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 reagent.
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	K-1 reagent			
Chemical name	Sodium Carbonate	Sodium Sulfate	Other (not regulated)	Polyethylene
Content	1 - 4.9 %	1 – 4.9 %	1 – 4.9 %	80 – 89 %
Chemical formula	Na2CO3	Na2SO4	-	$(C_2H_4)_n$
METI No. (reference number under CSCL in Japan)	(1)-164	(1)-501	-	(6)-1
CAS No.	497-19-8	7757-82-6	-	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: Care should be made so that reagents and test solutions will not contact with eyes and skin and to avoid ingestion.
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: Tube containing powder reagent
1.1 g x 50 tubes/kit, aluminum laminated packaging each of 5 tubes (WAK-TH)
1.1 g x 10 tubes/kit, aluminum laminated packaging each of 1 tube (ZAK-TH)
Color: White (powder), semi-transparent (polyethylene tube)
Odor: No odor
pH: 10

Melting point, boiling point, flash point, ignition point, lower explosion limit, vapor pressure, density, relative density, 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.

Polyethylene:
Acute toxicity:
Oral: Rat LD_{50} > 7,950 mg/kg (used 7,950 mg/kg for the calculation of ATEmix 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 (inhalation)]
Classified as Category 4 (Warning, harmful if inhaled.) based on application of the additive equation of LC_{50} values (rat-inhalation) of each ingredient.
[Serious eye damage/ eye irritation]
Contained more than 3% of category 2; Classified as Category 2 (Warning, Causes serious eye irritation.).
[Specific target organ toxicity (single exposure)]
Contained 1 to 10 % of STOT category 1 (stomach) substance; Classified as category 2 (Warning, May cause damage to stomach.).

[Acute toxicity (oral)], [Skin corrosion/ irritation], [Respiratory or skin sensitization], [Germ cell mutagenicity], [Carcinogenicity], [Reproductive toxicity], [Specific target organ toxicity (repeated exposure)], [Aspiration hazard]
Not classified or classifications are not possible because of lack of data.

12. Ecological information

No data on mixture is available. Data on each substance are shown.
Phthalein complexone, 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 lack of data.
[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 in tube is alkali, pH = 10.
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 classification and number:	Not applicable
Civil Aeronautics Act:	Not applicable
Fire Service Act:	Not applicable
Total weight of the product:	ca.140 g/kit (WAK-TH) ca. 60 g/kit (ZAK-TH)

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 each of 1% of Sodium Carbonate and Sodium Sulfate.
“Cabinet order, article18, shall be indicated the Name of the substance, #2”
“Cabinet order, article18-2, shall be notified the Name of the substance, #2”

16. Other information

Reference literature

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-Labelling 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.