Safety Data Sheet

Reference No. 1019-2

Issue: 21st October 2024

1. Chemical product and company identification

Product name **PACKTEST Phosphate** Model WAK-PO₄-2

KYORITSU CHEMICAL-CHECK Lab., Corp. Company name

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:

Category 1 Skin corrosion/irritation: Category 1 Serious eye damage/eye irritation: Specific target organ toxicity (single exposure):

Category 2 (gastrointestinal tract)

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

Environmental hazards: Not classified or 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.

Causes damage to gastrointestinal tract.

[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

<u></u>			
Reagent name	K-1 reagent		
Chemical name	Disodium Sulfate	Other (not regulated)	Polyethylene
Content	5 – 9.9 %	1 – 4.9 %	80 – 89.9 %
Chemical formula	Na ₂ SO ₄	-	(C ₂ H ₄) _n
METI No.			
(reference number	(1)-501	_	(6)-1
, ,	7757-82-6	_	9002-88-4
Chemical formula METI No.	Na ₂ SO ₄	1 – 4.9 % – – –	(C ₂ H ₄) _n

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, 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: Care should be made so that reagents will not contact with eyes or skin and to avoid ingestion. pHs of test

solutions are lower than or equal to 2, acidic. Care should be made so as to avoid contact with eyes or skin. 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):

OSHA (PEL):

Not established
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 40 tubes/kit (5 tubes per one aluminum laminate

packaging)

Color:

white (powder), semi-transparent (polyethylene tube)

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.

Disodium sulfate:

Acute toxicity (Oral): Not classified on the following data.

LD50 for rats: >10,000 mg/kg (SIDS (2006))

Serious eye damage/eye irritation: Based on (1) and (2), it was classified in Category 2B.

- (1) In an eye irritation test according to OECD TG 404 with rabbits, it was concluded to be slightly irritating, and all the effects were reversible within 7 days (SIDS (2006), REACH registration dossier (Access on September 2019)).
- (2) This substance is not irritating to the skin and slightly irritating to the eyes. Sensitizing effects are highly unlikely (SIDS (2006)).

Specific target organ toxicity - Single exposure: Based on (1), it was classified in Category 1 (gastrointestinal tract).

(1) This substance was once used as a laxative in humans for medical purposes in oral doses of about 300 mg/kg up to 20 g maximum, but it has been gradually abandoned due to severe diarrhea and abdominal cramping (SIDS (2006)).

Other data: Not available

Polyethylene:

Acute toxicity:

Oral: Rat LD₅₀ > 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.

[Skin corrosion/irritation]

pH < 2; Classified as Category 1 (Danger, Causes severe skin burns and eye damage.)

[Serious eye damage/ eye irritation]

pH < 2; Classified as Category 1 (Danger, Causes serious eye damage.)

[Specific target organ toxicity (single exposure)]

Contains 1 to 10% of category 1 substance; Classified as Category 2 (Warning, May cause damage to gastrointestinal tract.)

[Acute toxicity (oral)], [Acute toxicity (inhalation: dust, mist)], [Acute toxicity (dermal)],

[Respiratory or skin sensitization], [Germ cell mutagenicity], [Carcinogenicity], [Reproductive toxicity],

[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.

Disodium sulfate

Hazardous to the aquatic environment, short term (acute): It was not classified on the following data.

72-hour EC50 = 1,584.583 mg/L for algae (Pseudokirchneriella subcapitata) (AQUIRE, 2019, Simmons, 2012),

48-hour EC50 = 3,150.21 mg/L for crustacea (Ceriodaphnia dubia) (AQUIRE, 2019, Soucek, 2007)

96-hour LC50 = 7,960 mg/L for fish (Pimephales promelas) (AQUIRE, 2019, Mount, 1997).

Hazardous to the aquatic environment, long term (chronic): It was not classified on the following data, although environmental dynamics of the inorganic compound is unknown...

72-hour NOEC = 1,060 mg SO4/L (a converted value equivalent to NaSO4: 1,265 mg/L) for algae (Pseudokirchneriella subcapitata)

7-day NOEC = 610 mg SO4/L (a converted value equivalent to NaSO4: 728 mg/L) for crustacea (Ceriodaphnia dubia)

31-day NOEC = 205 mg SO4/L for fish (Oncorhynchus mykiss) (a converted value equivalent to NaSO4: 245 mg/L)

(all, AQUIRE, 2019, Elphick, 2011), although environmental dynamics of the inorganic compound is unknown.

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)]:

Classification 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

pHs of waste solution after the measurement are ≤ 2 , acidic. 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 Not applicable
Civil Aeronautics Act: Not applicable
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: Not applicable

16. Other information

Reference literature

15,911 no Kagaku Shouhin, The Chemical Diary Co., Ltd. (2011)

NITE, GHS Classification, ID m-nite-7757-82-6_v1 Disodium Sulfate

Material Safety Data Sheet No.051110033, TOSOH CORPORATION (2004.07.09)

Koukuu Kikenbutsu Yusou Houreisyu, Ed. MLIT, HOUBUN SHORIN CO., LTD.(2023)

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.