Date of revision : Nov.16th, 2017

Safety Data Sheet (EU)

1. Product and Company Identification

Product name　: Fast Detergent 1　2.5D　Alkaline Washing Solution (CODE No. 50-24-0747)
Name of supplier : Tokyo Boeki Medisys Inc.
Address　: 1-14-21, Higashitoyoda, Hino, Tokyo 191-0052, Japan
Division　: Quality Assurance Division,　Phone : +81-42-587-2965

2. Hazards Identification

GHS classification and label elements of the products

GHS classification

HEALTH HAZARDS

Eye damage /eye irritation : Category 1

Label elements

Signal word : Danger

HAZARD STATEMENT

H318 Causes serious eye damage

PRECAUTIONARY STATEMENT

Prevention

P280 Wear protective gloves, eye protection/face protection.

Response

P310　Immediately call a POISON CENTER/doctor

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Composition/Information on Ingredients

Substance/Preparation :　Preparation

General name	CAS No.	EU CLP (01.06.2015)	Percent (W/W%)
Nonionic surfactant	N/A to disclosure	—	N/A to disclosure
Metal sealing agent	64-02-8	Eye damage /eye irritation Category 1 H318	<10%
Water soluble solvent	N/A to disclosure	—	N/A to disclosure

4. First-aid Measures

If inhaled

Move the victim to a place full of fresh air, rinse inside the mouth with water sufficiently and keep at rest in a position comfortable for breathing. Get medical treatment, if necessary.

If on skin (or hair)

Wash the affected area with a lot of cold water. Get medical treatment, if necessary.

If in eyes

If even a small amount of the product gets into eyes, immediately wash the affected eye by flushing a lot of water for 15 minutes or more without rubbing　(carefully wash eyeball and eyelid completely). Get medical treatment by an oculist. In case you wear contact lens and can take it off easily, you take if off and continue washing eyes.

If swallowed

Rinse inside the mouth with water sufficiently. If the patient is conscious, let the patient drink fresh water or milk. Never force the affected person to vomit. Immediately get medical treatment.

5. Fire-Fighting Measures

Suitable extinguishing media

This product is non-flammable. In case of a fire around the container, as a fire - extinguishing agent that uses the water, dry-chemical powder or carbon dioxide.

Specific fire-fighting measures

Evacuate non-essential personnel to a safe area. Move container from fire area if it can be done without risk

Special protective equipment and precautions for firefighters

Firefighters should wear proper protective equipment. Be careful not to inhale smoke and must work on the windward side of the fire.

6. Accidental Release Measures

Personnel precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear proper protective equipment.

Environmental precautions

Be careful not to dispose such chemical product into the rivers to cause bad influence on peripheral area.

Methods and materials for neutralization, containment and cleaning up

Collect the leakage as much as possible and wipe off some remaining liquid on the floor or ground with some pieces of waste cloth. Burn out such clothes. If the leakage cannot be recovered, discharge them into a pit by flushing with a lot of water.

7. Handling and Storage

Precautions for safe handling

Preventive measures (Exposure Control for handling personnel)

Wear proper protective equipment.

Safety treatments

Do not inhale mist/spray. Avoid contact with skin. Avoid contact with eyes.

It is not allowed to fall down, it drops, the impact is added, and uncouth handling of product etc. is done again.

Storage condition to be avoided

Do not keep in a metal container such as aluminum, as there is a hazardous possibility like leakage or explosion.

Recommendation for storage

Keep the agent away from direct sunlight and store it in a cool place with the plug of container tightly closed. Keep out of the reach of children.

8. Exposure Control/Personal Protection

Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient for most conditions.

Install a facility for washing hands, eyes or bodies near the handling place. Put a notice to indicate there is such a facility.

Individual protection measures

Respiratory protection Wear a protective mask.

Hand protection Wear suitable gloves such as rubber gloves.

Eye protection Wear protective eyeglasses.

Skin and body protection Protective boots, protective clothes, protective rubber apron if necessary.

9. Physical and Chemical Properties

Appearance : Colorless transparent solution
pH : 11.1 (central value)
Specific gravity : 1.03 (central value)
Solubility : Dissolvable in water and hot water
Odor : Almost none
The boiling point, Initial boiling point and boiling range : 35℃ < Initial boiling point
Flash point : Incombustibility
Upper and lower limits of the combustion or explosion range : Incombustibility
Vapor pressure : No data
Spontaneous ignition temperature : Incombustibility

10. Stability and Reactivity

Chemical stability
Stable under the normal storage/handling condition. This material generates heat if contacted by acidic substance. Avoid mixing with a highly acidic substance such as concentrated sulfuric acid.
Possibility of hazardous reactions
Metallic tools other than stainless steel (SUS304, 316) may be affected. Before using, be sure to have a test of any metals.
Conditions to avoid
Sunlight, heat

11. Toxicological Information

Information on toxicological effects

Acute toxicity	Acute toxicity estimate 37000mg/kg (Calculated value)
Irritant properties	
Skin corrosion/irritation	No data available yet.
Serious eye damage /irritation	(Metal sealing agent) Rabbit : slight clouding of the cornea (EU-RAR, 2004)
Allergenic and sensitizing effects	No data available yet.
Carcinogenicity	No data available yet.
Reproductive toxicity	No data available yet.

Delayed and immediate effects and also chronic effects from short- and long-term exposure
Specific target organ toxicity (single exposure cat.2, Metal sealing agent) Systemic toxicity

12. Ecological Information

Ecotoxicity

Aquatic toxicity	(Metal sealing agent) algae (Scenedesmus subspicatus) EC50 1.01 mg/L/72hr (EU-RAR, 2004)
Persistence and degradability	No data available yet.
Bioaccumulative potential	(Metal sealing agent) log Pow=5.01 (calculated) (ICSC, 2006)
Other adverse effects	No data available yet.

13. Disposal Considerations

Waste treatment methods
Dispose content or container under local/state regulations.
This substance is alkaline. Dilute this substance with a large amount of water before disposing.

Or, gradually neutralize it with some acidic substance and then discharge with a large amount of water.
In case of bulky lot, ask a professional industrial waste disposing company.

14. Transport Information

Special precautions in connection with transport or conveyance

In transporting the product, keep away from direct sunlight, check to see that no leakage from the container occurs. Load the containers so that they may not topple over, fall down, or be damaged, and take measures against collapse of the pile of the containers.

International rule

United Nation's classification / United Nation's number : Not applicable
IATA Dangerous Goods Regulations : Not restricted

15. Regulatory Information

Industrial Safety and Health Law, Japan : Chemical name et al should be informed Not applicable
(Clause 57, item 2, enforcement regulations No.18, item 2 Attached list No.9)
Poisonous and Deleterious Substances Control Law, Japan : Not applicable
Pollution Release and Transfer Register (PRTR) Law, Japan : Not applicable
Fire service law, Japan : Not applicable
Dangerous Substances Shipping and Storage Rules, Japan : Not applicable
Civil Aeronautics Law, Japan : Not applicable
REACH regulation : SVHC list 174 substances,
Not applicable

16. Other Information/References

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th Ed., 2013), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit. 2013 UN
Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
2015 TLVs and BEIs. (ACGIH)
http://monographs.iarc.fr/ENG/Classification/index.php
JIS Z 7253:2012 Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS)
Supplier's data/information

About the limiting of the responsibility:

The contents mentioned have been prepared based on the materials, information and data presently available. It therefore, may be revised according to any newly obtained information or knowledge from time to time. It does not guarantee the correctness and perfection of information or performance of any product. Any precautions given therein are for an ordinary handling. If a special handling is to be taken, be sure to provide with suitable safety measure on new use/usage.
The notification given therein regarding the danger and toxicity may not be sufficient, so handle such item very carefully.
The basis for calculating the GHS classification categories described here is the EU Publication Data at the present time (EU CLP published in 01.06.2015).