Date of issue 2016/09/16

Safety Data Sheet (SDS)

1 Chemical Product Company Information

Name of the product: Yunomoto

Supplier's name: Murakami shoukai Co., Ltd.

Address: 16-7 kamitanoyumachi- beppushi, Oita, Japan Postal code: 874-0908

Tel: +81-977-21-1270

Fax:+81-977-21-6755

Maker/ factory: Hosoi Chemical Industry.Co.,Ltd.

Address: Kusugun kokonoe machi tano 675-6 Postal code: 879-4911

Department in charge: Production department: +81-973-79-2690

Recommended and restriction of usage: Medicated products: Bathing

2 Summary of hazardousness

Dangerousness and Hazard Class	Category	Dangerousness and Hazard information
Flammable liquid	Cannot be classified	
Acute toxicity(oral)	Category 4	
Acute toxicity(skin)	Category 5	
Acute toxicity(inhalation of vapor)	Cannot be classified	
Skin corrosiveness and irritation	Category 2	
Serious eye danger/eye irritation.	Category 1	
Skin sensitization.	Category 1	
Mutagenicity to reproductive cells	Cannot be classified	
Carcinogenicity	Cannot be classified	
Reproductive toxicity	Cannot be classified	
Aquatic environmental toxicity(acute)	Category 3	
Aquatic environmental toxicity(chronic)	Cannot be classified	

GHS label

Pictures or symbols

Warning statements: Warning

Hazard and toxicity information :

Drinking this product is harmful
May harm your skin if you touch it
May cause critical chemical injury or harm eyes
May trigger skin allergy
Harmful for aquatic living thing
Metal corrosion

Warning;

Accidental ingestion
It is strong alkaline,which has strong irritation toward eyes, so use carefully not to get touched eyes and wash in case this product get your eye.
It is strong alkaline,which has strong irritation toward skin, so use carefully not to get touched skin and wash in case this product touch your skin.
Do not throw away or not to leak river, artificial culture pond, because it may affect badly to aquatic living thing
Do not throw away the water used to wash container or sprayer of this product to protect aquatic living thing. Also dispose the container in a appropriate way.

3 Composition and Information Ingredient

Single/Mixture Mixture

Chemical name	Calcium Polysulfide	18,.0%
Content	Water and so on	82.0%

Chemical formula: cannot be identified (Petroleum hydrocarbon)

Component	Content	CAS.No.	PRTR	CSCL	JISHA
Calcium Polysulfide	18.0%	-	-	-	-

4 First-Aid Measures

Eye contact : Wash with plenty of clean water for more than 15 minutes and go to doctor.

Skin touch : Wash with soap. Change the clothes and wash in laundry, which separate from other clothes. Go to doctor if you feel not well or find something unordinary.

Inhalation : Let the patient rest under fresh air. Get medical attention if any abnormality is observed.

Accidental drink : Wash in the mouth with water. Don't forcibly induce patient vomit. Get medical as soon as possible.

5 Fire Fighting Measures

Extinguishing media Form:powder and carbon dioxide fire extinguishing agents and Water.

Prohibited media : Not in particular

Particular hazardousness: Not in particular

Fire-fighting method : extinguish the origin of fire with fire extinguisher soon. Cool down the vessel and around the fired area. Extinguish fire from the windward side.

6 Accidental Release Measures

Human body precaution: Keep the area out from the released area. Wear appropriate protective equipment to collect the release agent.

Environmental precautions: Don't throw the release agent away to river or sewage.

Collection and Neutralization: Absorb the product to dry sands and soils, etc., and put them in a sealable vessel.

7 Handling and storage

Handling Technical Measures : Read the label and do not use the way which is not on the label.
:Use the product in a well ventilated place.
:Every time the product is used, seal the container.
: The product is strong alkaline, so do not get it touch eye, skin and clothes.
: Wear protective glove and glasses.
: Wash hand and face well after used the product.
: Avoid mixing with acid material, because it produce harmful Hydrogen sulfide.

Note:

Note for safety: Do not use this product near fire or the high temperature.

Appropriate storage condition: Keep it separated from food and drink. Avoid to get direct sun and keep it with sealed container in low temperature and dried place.

Recommended container: polyethylene bin

8 Exposure Controls/Personal protection

Facility Measures : Not set

Controlled concentration: Not set

Allowable concentration: Not set

Protective equipment

Respiratory protection: Wear protective mask

Hand protection: Wear oil-resistant (non-permeable) gloves.

Eye protection :Wear protective goggles.

Skin and body Protection:Wear long boots, an apron and a protective garment.

9 Physical and Chemical Properties

Appearance: Red brown ,aqueous liquid

Odor: rotten egg smell

PH: ＞11 (1% liquid)

Melting point, Freezing point: Not data available

Initial boiling point and boiling range: Not data available

burning quality: Not data available

Flash point: Not data available

Ignition point: Not data available

Explosion range: Not data available

Vapor pressure: Not data available

Density meters and specific gravity meters: 1.25 (20℃)

Solubility temperature: Not data avaialable

Viscosity: Not data available

10 Stability and Reactivity

Stability: Stable in the normal situation.
May produce dangerous material: Mixing with acid produce harmful gas
Conditions to be Avoided: Mixing with acid material
Dangerous material to mix: Acid
Dangerous degradation product: Not data available

11 Toxicological Information

Acute toxicity (oral): rat ♂ 422mg/kg, ♀ 603mg/kg
Mouse ♂♀ 332mg/kg
Acute toxicity (skin): Rat ♂♀ >5000mg/kg

Acute toxicity (gas): Not applicable

Acute toxicity(vapor): Not applicable

Skin corrosiveness/irritation: Rabbit Mild irritative
Serious eye danger/eye: Rabbit Mild irritative (100 times diluted water)
Respiratory organ sensitization: No

Skin sensitization: Guinea pigs negative reaction

Mutagenicity: No
Carcinogenicity: No
Reproductive toxicity: No
Specification target internal organs/whole toxicity(Single dose): No
Specification target internal organs/whole toxicity(Repeated dose): No

Aspiration Hazard: No

12、Ecological information

Ecological Toxicity: Fish LC50 393ppm (96hr)
Shellfish LC50 16.5 ppm (48hr)
Alga EbC50 119ppm (72hr)
Toxicity(chronic): No
Persistence and decomposition: No
Bio accumulative: No

Mobility in soil: No

13 Disposal considerations

Follow the instructions of Specially Controlled Industrial Waste Disposal Criteria., otherwise disposing used item may cause danger.
Follow the general cautions on handling hazardous liquid in addition to items listed in Handling and Storage.
Dispose this product by handling it over to a qualified industrial waste disposal service provider.

14 Transport information

International regulations: Not applicable.
Domestic regulations: load as comply with domestic regulation to transport.
Condition to keep the safety during transportation: Check if there is a leak or rotten or the container is broken before transportation. Make sure it is tied up to prevent from falling off.
Keep the protective equipments such as glove, glasses and mask. Also in case of emergency, prepare for fire extinguisher and tools.

15 Regulation Information

Act on Confirmation、etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof： Not data available
Industrial Safety and Health Law： Not data available
Law Concerning the Examination and Regulation of Manufacture： Not data available
Poisonous and deleterious substances control act： Not data available
Fire protection law: Not data available
Marine vessel safety law: Not data available
Airt craft safety law： Not data available
Medicine law:： Code: 44D0X0005

16 Other

The data shown above are based on the information, documents and data that were available at the time this sheet was formed, but this sheet shouldn't be construed as providing any type of warranty and guarantee on this product. Handle this product with care.

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