

Ref No.	SUPER HIGH CLEANER 4kg × 2/CS	Date Prepared	12-Dec-13
2938-01E	Yokohama Oils & Fats Industry	Date Revised	15-Sep-16

Ver. 11_05

Safety Data Sheet (SDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID	SUPER HIGH CLEANER 4kg × 2/CS
Product Code	2938
Company Name	Yokohama Oils & Fats Industry Co., LTD.
Address	1-1 Minamisengen-cho, Nishi-ku, Yokohama,
Department in Charge	Department of Technology & Development
Personnel in Charge	Hajime Hirasawa
Phone	+81-45-311-4701
Fax	+81-463-89-1330
Emergency Contact	+81-45-311-4704
Recommended Use and Usage Restrictions	This is used for surface cleaning agent in front of the floor finish. (This can not be used to tablewar, plaster walls, stone and flooring.)
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2. HAZARDS IDENTIFICATION

GHS Category

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1
Hazardous to the aquatic environment (acute)	Category 3

* Items unmentioned are either out of category, not classified, or classification not possible.

GHS label elements

Symbol



Signal word

Danger

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Hazard statement

May be corrosive to metals
 Causes severe skin burns and eye damage
 Causes serious eye damage
 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
 May cause allergic skin reaction
 Suspected of damaging fertility or the unborn child
 Causes damage to organs (nervous system, liver)
 Causes damage to organs through prolonged or repeated exposure (testes, kidneys, nervous system, gastrointestinal tract, respiratory organs system, liver)
 Harmful to aquatic life

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical substance ▪ Single / Mixture

▪Mixture

Component / Chemical Name	Content (wt%)	CAS No.	MITI No.
Water	Remaining amount	7732-18-5	—
Mono ethanolamine	11	141-43-5	(2)-301
Non-ionic surfactant	1~5	registered	registered
Chelating agent	0.1~1.0	registered	registered

Substances subject to notification restricted by PRTR Law

Applicable to PRTR Law

No.	Substance Name	Content
1-20	Mono ethanolamine	11%

Poisonous and Deleterious Substances Control Law

Not applicable Contains applicable substance but less than regulated content

Industrial Safety and Health Law

Subject to notification : Article 57-2 of Act, appended table 9 of article 18 of Order
 Harmful substance subject to notification

No.	Substance Name	Content
21	Mono ethanolamine	11%

Industrial Safety and Health Law

Subject to indication : Article 57-1 of Act, appended table 9 of article 18 of Order
 Harmful substance subject to indicatable

No.	Substance Name
21	Mono ethanolamine

Ordinance on the Prevention of Organic Solvent Poisoning

Not applicable Contains no applicable substance

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4. FIRST AID MEASURES

IF MASSLY INHALED

- If you feel unwell after inhaling, remove to fresh air and keep at rest in a position comfortable for breathing.
- Seek medical attention if you do not recover from illness.
- Call a POISON CENTER or doctor/physician if respiratory symptoms appear.
- If victim vomits, and is still breathing, turn head sideways.
- If victim is breathing weak, give artificial respiration or oxygen inhalation.
- Symptoms may lag behind from the time of inhalation.
- Seek medical attention if above symptoms appear.

IF ON SKIN

- Product is strong alkali. Do not use soap. Wash skin with lukewarm water until you feel no irritation or sliminess. This may take over 1 hour.
- Wash contaminated clothing before reuse.
- Remove/take off immediately all contaminated clothing and flush skin with water.
- Do not force to remove clothing if stuck to skin after flushing.
- May cause skin disability if treatment is too late or insufficient.
- Seek immediate medical attention.

IF IN EYES

- Rinse eyes with clean water for at least 15 minutes. Use fingers to open eyelid and wash thoroughly throughout every part of the eye including eyeball and eyelid.
- Remove contact lenses unless firmly stuck to the eye and continue to rinse.
- Seek medical attention after rinsing.
- Seek immediate medical attention if you have severe pain.
- May cause irreversible eye disability if treatment is too late or insufficient.

IF SWALLOWED

- Immediately rinse mouth with water.
- Seek immediate medical attention.
- Do not induce vomiting.
- Product is corrosive. Vomiting may increase risk. Seek immediate medical attention.
- Seek immediate medical attention if a child has possibly swallowed the product.
- Give artificial respiration or oxygen inhalation as needed.

MOST IMPORTANT SIGN AND SYMPTOM

- None in particular

PROTECTION FOR FIRST-AIDERS

- None in particular

SPECIAL PRECAUTIONS FOR PHYSICIANS

- None in particular

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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

- Product itself is non-combustible.

SPECIFIC FIRE-FIGHTING PROCEDURE

- Take fire-fighting procedures from upwind as much as possible.
- Evacuate unauthorized people from the area and lead them to a safe place.
- Move container from fire area if it can be done without risk.
- Seal off the area to unauthorized people.
- Cool surrounding area with water spray to prevent temperature rising of peripheral facilities that could be caused by radiation heat.
- Take appropriate measures to prevent environment-affecting substances from flowing out.

PROTECTION FOR FIRE-FIGHTERS

- Apply suitable equipment such as gloves, goggles, and mask.
- Take procedures from upwind and avoid inhalation of toxic gas. Wear respiratory equipment as needed.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS FOR HUMAN BODY, PROTECTIVE EQUIPMENT AND EMERGENCY MEASURES

- Ventilate area until well after the fire is out.
- Wear gloves, goggles, and protective clothing when taking measures against leakage.
- Seal off the spilled area by stretching ropes.
- Wear suitable equipment to avoid skin contact and inhalation of dust /gas.
- Take measures from upwind and evacuate unprotected personnel from downwind.
- Prepare extinguishing tools and equipments for possible ignition.
- Watch your step ; spilled area is slippery.

TO PREVENT ENVIRONMENTAL POLLUTION

- Do not let spills flow into rivers to prevent environmental contamination.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

COLLECTION AND NEUTRALIZATION

- Small amount release ; absorb spills with absorbant (sawdust, soil, sand, cloth, etc.) and wipe remains with cloth. Collect absorbants in a sealable container for disposal.
- Large amount release ; prevent outflow by mounting soil and take procedures after channelling it to a safe place.
- Product is strong alkali ; mount soil to prevent outflow and take procedures after channelling it to a safe place. Neutralize by using dilute hydrochloric acid or dilute sulfuric acid if necessary. Do not let it flow into sewage, drainage, or groundwater.
- Absorb remains with soil or sawdust.
- Contaminated materials and waste must be disposed in compliance with all relevant regulations.

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TO PREVENT SECONDARY DISASTER

- In case of accidental release, you must report to relevant authority without delay in order to prevent possible accident and expansion.

7. HANDLING AND STORAGE

HANDLING

Technological Countermeasures

- Obtain instruction manual before use.
- Read thoroughly the usage precautions. Do not use product for other purposes.
- Do not handle until you have read and understood every safety precautions.
- Product is alkaline ; avoid contact with acidic products.
- Do not inhale dust, smoke, gas, mist, vapor, or fume.
- Use at outdoors or well-ventillated areas.
- Do not eat, drink, or smoke while handling.
- Keep only in the original container.
- Wash hands thoroughly after handling.
- Wash contaminated clothing before reuse.

STORAGE

CONDITION FOR SAFE STORAGE

- Read storage conditions on label and store properly.
- Keep container tightly closed.
- Keep away from direct sunlight. Avoid exposing to temperature over 40 deg.
- Keep in corrosion-resistant container or corrosion-resistant lined container.
- Keep locked up.
- Do not store with acid.

SAFE PACKAGE MATERIALS

- Do not use corrosive materials such as soft steel, copper, aluminum, or zinc. Store in a container made of stainless steel or polyethylene.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

FACILITY MEASURES

- Local ventilation system is required for vapor/smoke/mist releasing conditions.
- Local ventilation system is required for indoor use.

Blanks and “-” is equal to “no data”.

Component/Chemical Name	Control Limit	Exposure Limit
Water	—	—
Mono ethanolamine	—	3ppm 7.5mg/m3 Japan Society for Occupational Health(2008)、TWA : 3ppm STEL : 6ppm ACGIH(2008)
Non-ionic surfactant	—	—
Chelating agent	—	—

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PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection

•Wear protective mask. Wear filter respirator, chemical cartridge respirator, or respirator for organic solvent as needed.

Hand Protection

•Wear protective gloves. Wear solvent-resistant gloves or vinyl gloves as needed.

Eye Protection

•Wear protective goggles. Wear chemical goggles or face shield as needed.

Skin and body protection

•Wear body suit or protective apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Blue cleanness liquid
Odour	: Raw material odor
pH	: 11.6
Melting Point/Freezing Point	: Not applicable
Boiling Point, Boiling Range	: Not applicable
Flash Point	: None
Auto-Ignition Temperature	: Not applicable
Flammability	: Not applicable
Flammable/Explosive Limit	: Not applicable
Vapor Pressure	: Not applicable
Vapor Density	: Not applicable
Evaporation Rate	: Not applicable
Specific Gravity	: 1.01
Solubility	: Soluble
Partition Coefficient n-Octanol/Water	: Not applicable
Decomposition Temperature	: Not applicable
Viscosity	: Not applicable
Other Data	: Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

•Stable under usual handling condition.

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Possibility of Hazardous Reactions

- None in particular

Conditions to Avoid

- None in particular

Incompatible Materials

- Acidic materials (Product is alkaline. Avoid contact with acidic materials.)

Hazardous Decomposition Products

- None in particular

Others

- None in particular

11. TOXICOLOGICAL INFORMATION

Toxicological Information of Individual Component : Blank means "below cutoff limit set by GHS or no data".

Component/ Chemical Name	Acute Toxicity (Oral)	Acute Toxicity (Dermal)	Acute Toxicity (Inhalation : gas)	Acute Toxicity (Inhalation : vapor)	Acute Toxicity (Inhalation : dust, mist)	Skin Corrosiveness/ Irritation	Serious Eye Damage/ Eye Irritation
Water	Not classified	Not classified	Not applicable	Not classified	Not classified	Not classified	Not classified
Mono ethanolamine	Category5	Category3	Classification not possible	Classification not possible	Classification not possible	Category1A	Category1
Non-ionic surfactant	Not classified	Not classified	Not applicable	Not classified	Not classified	Classification not possible	Classification not possible
Chelating agent	Not classified	Classification not possible	Not applicable	Classification not possible	Classification not possible	Classification not possible	Classification not possible

Component Chemical Name	Respiratory or Skin Sensitization	Germ Cell Mutagenesis	Carcinogenicity	Reproductive Toxicity	Target organ toxicity (single exposure)	Target organ toxicity (repeated exposure)	Aspiration Hazard
Water	Not classified/Not applicable/Not classified	Not classified	Not classified	Not classified	Not classified/Not classified/Not classified		Not classified
Mono ethanolamine	Category1/Class ification not possible/Categ ory1	Classification not possible	Classification not possible	Category2	Category1/Class ification not possible	Category1 (nervous system, testes, gastrointestin al tract, liver, kidneys, respiratory organs system) Classification not possible	Classification not possible
Non-ionic surfactant	Not classified/Not applicable/Not classified	Not classified	Classification not possible	Not classified	Classification not possible/Classi fication not possible	Classification not possible/Classi fication not possible	Classification not possible
Chelating agent	Classification not possible/Classi fication not possible/Class ification not possible	Not classified	Classification not possible	Classification not possible	Classification not possible/Classi fication not possible	Classification not possible/Classi fication not possible	Not classified

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12. ECOLOGICAL INFORMATION

Hazardous information of individual component : Blank means "below cutoff limit set by GHS" or "no data".

Component/ Chemical Name	Hazardous to the aquatic environment (acute)	Hazardous to the aquatic environment (chronic)
Water	Not classified	Not classified
Mono ethanolamine	Category2	Classification not possible
Non-ionic surfactant	Classification not possible	Classification not possible
Chelating agent	Not classified	Classification not possible

Hazardous to the ozone layer : None

13. DISPOSAL CONSIDERATIONS

• Disposal of contents/container must be entrusted to officially approved waste disposal dealers.

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS

UN Class

Class 8 Corrosives

UN Number

3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

Packing Group : III

Marine pollutant : Not applicable

Domestic Regulations :

Container Yellow Label

153 Toxic substances and corrosive substances (flammable)

Specific Safety Measures and Conditions for Transport

- Make sure that there are no breaks or leaks from package.
- Ensure to avoid collapse and damage.
- Package, label, and transport must comply with relevant regulations.
- Avoid direct sunlight.
- Keep dry. Dangerous if contacted with water.
- Do not load side-ways.
- Do not place directly on heated steel or ground during transport.
- Handle with care. Do not add shock to container. Avoid fall or crash.

15. REGULATORY INFORMATION (Japanese legislation)

Explosives Law

Not restricted

High Pressure Gas Safety Act

Not restricted

Fire Defense Law : Restricted storage limit is shown in ()

Not applicable (as Hazardous Substances of Fire Service Law)

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Non-combustible

Poisonous and Deleterious Substances Control Act

Not applicable ; contains less than defined limit
(refer to 3. COMPOSITION/INFORMATION ON INGREDIENTS for details)

Industrial Safety and Health Act :

Contains indicatable substance (refer to 3. COMPOSITION/INFORMATION ON INGREDIENTS for details)

Contains notifiable substance (refer to 3. COMPOSITION/INFORMATION ON INGREDIENTS for details)

Industrial Safety and Health Act (Ordinance on the Prevention of Organic Solvent Poisoning) :

Not applicable Contains no restricted substances
(refer to 3. COMPOSITION/INFORMATION ON INGREDIENTS for details)

Industrial Safety and Health Act (Dangerous Goods) :

Not applicable

Pollutant Release and Transfer Register Law (PRTR) :

Applicable to PRTR Law (refer to 3. COMPOSITION/INFORMATION ON INGREDIENTS for details)

16. OTHER INFORMATIONS

Classification of Chemicals Based on GHS JIS Z7252:2009

Hazard Communication of Chemicals Based on GHS-Labeling and Safety Data Sheet (SDS) JIS Z7253:2012

GHS Category Database (National Institute of Technology and Evaluation homepage)

Japan Advanced Information Center of Safety and Health homepage

Japan Auto Chemical Industry Association (JACA) edited : Management of Chemical Substances Database

Guideline for MSDS of Auto Chemical Products (JACA)

Regulations for Carriage and Storage of Dangerous Goods in Ships (Kaibundo)

※ Attention

SDS is presented to dealers and customers as reference informations to retain safety handling of the hazardous chemical product. Dealers and customers are encouraged to refer to this information and realize the necessity to conduct appropriate measurement suitable for the actual conditions of each use with your own responsibility. Therefore this data sheet is not a safety warranty.