

Ref No.	Alpha Cleaner Refill	Date Prepared	29-Sep-09
3075-07	Yokohama Oils & Fats Industry	Date Revised	9-Apr-13

Ver. 11_01

Safety Data Sheet (SDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID	Alpha Cleaner Refill
Product Code	3075
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	Hikaru Hoshi
Phone	+81-45-311-4701
Fax	+81-463-89-1330
Emergency Contact	+81-45-311-4704
Recommended Use and Usage Restrictions	outside of the vending machine (steels, plastics)
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2. HAZARDS IDENTIFICATION

GHS Category

Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 1 (1A and 1B)
Reproductive toxicity	Category 1 (1A and 1B)
Target organ toxicity (repeated exposure)	Category 2
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

Hazard statement

Combustible liquid
 Causes skin irritation
 Causes serious eye damage
 May cause genetic defects
 May damage fertility or the unborn child
 May cause damage to organs through prolonged or repeated exposure (liver)
 Harmful to aquatic life

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical substance ▪ Single / Mixture

▪Mixture

Component / Chemical Name	Content(wt%)	CAS No.	MITI No.
Chelate agent	1 ~ 5	registered	registered
Anion surfactant	1 ~ 5	registered	registered
Non-ionic surfactant	< 1	registered	registered
Ampholytic surfactant	< 1	registered	registered
1-(2-methoxy-2-methylethoxy-2-propanol	1 ~ 5	34590-94-8	(2)-426
2-Methyl-2, 4-pentanediol	1 ~ 5	107-41-5	(2)-240
Ethanol	1 ~ 5	64-17-5	(2)-202
1-Propanol	< 1	71-23-8	(2)-207
2-Propanol	< 1	67-63-0	(2)-207
Silicone oil	< 1	registered	registered
Preservative	< 1	registered	registered
Fragrance	< 1	registered	registered
pigment	< 1	registered	registered

Substances subject to notification restricted by PRTR Law

Not applicable Contains less than 1% applicable substances

Poisonous and Deleterious Substances Control Law

Not applicable Contains no applicable substance

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
61	Ethanol	1 ~ 5%
494	Propyl alcohol	< 1%
593	2-Methyl-2,4-pentanediol	1 ~ 5%
601	1-(2-methoxy-2-methylethoxy-2-propanol	1 ~ 5%

Ordinance on the Prevention of Organic Solvent Poisoning

Not applicable Contains less than 5%

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.
- 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

- Flush immediately with water and wash thoroughly with soap.
- Remove/take off immediately all contaminated clothing and flush skin with water.
- Seek medical attention if you feel unwell.
- Seek immediate medical attention when skin irritation, rash, or blister appears.
- Remove/take off contaminated clothing and wash skin thoroughly.
- Wash contaminated clothing before reuse.

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.

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IF SWALLOWED

- Immediately rinse mouth with water.
- Seek immediate medical attention.
- Do not induce vomiting.
- Seek immediate medical attention if a child has possibly swallowed the product.

MOST IMPORTANT SIGN AND SYMPTOM

- None in particular

PROTECTION FOR FIRST-AIDERS

- None in particular

SPECIAL PRECAUTIONS FOR PHYSICIANS

- None in particular

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

- Powder-type media, foam-type media for water soluble liquid, carbon dioxide, dry chemical, water spray

FORBIDDEN MEDIA

- Do not use water for fire-fighting.

SPECIFIC HAZARDS FOR FIRE

- Avoid inhalation of smoke during fire-fighting. Combusted gas includes toxic gas such as carbon monoxide or nitrogen oxide.

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 alkali ; use acid (dilute hydrochloric acid, dilute sulfuric acid, etc.) to neutralize if necessary.
- Absorb remains with soil or sawdust.
- Contaminated materials and waste must be disposed in compliance with all relevant regulations.

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.
- Swiftly remove possible source of combustion and prepare extinguishing media.
- Use safe spark-proof tools.

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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.

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.
- Store in a cool well-ventillated area.
- Keep locked up.
- Do not store with acid.

SAFE PACKAGE MATERIALS

- None in particular

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.
- Use general ventilation at indoors. Local ventilation system is required for areas with poor ventilation or for vapor releasing conditions.

Blanks and “-” is equal to “no data”.

Component/Chemical Name	Control Limit	Exposure Limit
Chelate agent	—	—
Anion surfactant	—	—
Non-ionic surfactant	—	—
Ampholytic surfactant	—	—
1-(2-methoxy-2-methylethoxy-2-propanol	—	US (ACGIH)/2007 100ppm 8 hours/TWA skin, US (ACGIH)/2007 150ppm 15 minites/STEL skin
2-Methyl-2, 4-pentenediol	—	ACGIH (2006) TLV-STEL 25ppm (upper limit)
Ethanol	—	ACGIH (2006) TLV-TWA 100ppm 1880mg/m3
1-Propanol	—	—
2-Propanol	200ppm	Japan Society for Occupational Health (2005) 400ppm 980mg/m3, ACGIH (2005) TLV-TWA 200ppm , TLV-STEL 400ppm
Silicone oil	—	—
Preservative	—	—

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Blue and non-clear liquid
Odour	: Citrus odor
Odour threshold	: Not applicable
pH	: 10.5
Melting Point/Freezing Point	: Not applicable
Boiling Point, Boiling Range	: Not applicable
Flash Point	: 75°C
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.

Possibility of Hazardous Reactions

- Reacts vigorously with strong oxidizers and induce fire or explosion.

Conditions to Avoid

- Heat, source of heat, flame
- Avoid contact with strong oxidizers

Incompatible Materials

- Strong oxidizers (Product is flammable. Avoid contact with strong oxidizers.)

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
Chelate agent	Classification not possible	Classification not possible	Not applicable	Classification not possible	Classification not possible	Category2	Category2A
Anion surfactant	Not classified	Classification not possible	Not applicable	Classification not possible	Classification not possible	Category2	Category1
Non-ionic surfactant	Not classified	Category4	Not applicable	Classification not possible	Classification not possible	Category3	Category2A
Ampholytic surfactant	Not classified	Classification not possible	Not applicable	Classification not possible	Classification not possible	Category2	Category1
1-(2-methoxy- 2- methylethoxy- 2-propanol	Not classified	Not classified	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
2-Methyl-2, 4- pentanediol	Not classified	Not classified	Not applicable	Classification not possible	Classification not possible	Not classified	Category2A
Ethanol	Not classified	Classification not possible	Not applicable	Not classified	Not classified	Not classified	Category2A-2B

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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
1-Propanol	Category5	Category5	Not applicable	Classification not possible	Classification not possible	Category2	Category2A
2-Propanol	Category5	Category5	Not applicable	Not classified	Classification not possible	Not classified	Category2A
Silicone oil	Classification not possible	Classification not possible	Not applicable	Not applicable	Classification not possible	Classification not possible	Classification not possible
Preservative	Category5	Not classified	Not applicable	Not applicable	Category2	Category1	Category1
Fragrance	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
pigment	Not classified	Not applicable	Not applicable	Not applicable	Classification not possible	Classification not possible	Category2B

Component Chemical Name	Respiratory or Skin Sensitization	Germ Cell Mutagenesis	Carcinogenecity	Reproductive Toxicity	Target organ toxicity (single exposure)	Target organ toxicity (repeated exposure)	Aspiration Hazard
Chelate agent	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Anion surfactant	Not classified	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible/No Data	Not classified
Non-ionic surfactant	Classification not possible/Not classified	Not classified	Classification not possible	Not classified	Classification not possible	Classification not possible	Classification not possible
Ampholytic surfactant	Classification not possible/Not classified	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
1-(2-methoxy- 2- methylethoxy- 2-propanol	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possibleClassi fication not possibleCatego ry3	Classification not possible	Classification not possible
2-Methyl-2, 4- pentanediol	Classification not possible/Not classified	Not applicable	Classification not possible	Not classified	Category3 (narcotic effects, respiratory tract irritation)	Not classified	Classification not possible
Ethanol	Classification not possible	Category1B	Not classified	Category1A	Category3 (respiratory tract irritation, narcotic effects)	Category1 (liver) Category2 (nervous)	Classification not possible
1-Propanol	Classification not possible	Classification not possible	Category2	Category2	Category3	Classification not possible	Category2
2-Propanol	Classification not possible	Not classified	Not classified	Category2	Category1 (central nervous system, kidneys, systemic toxicity) Category3	Category2 (blood vessels, liver, spleen)	Category2
Silicone oil	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Category3 (respiratory tract irritation)	Classification not possible	Classification not possible
Preservative	Not classifiedNot applicable/Cat egory1	Not classified	Not classified	Not classified	Classification not possibleClassi fication not possible	Classification not possible	Classification not possible
Fragrance	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible
pigment	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Classification not possible	Not applicable

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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)
Chelate agent	Classification not possible	Classification not possible
Anion surfactant	Category2	Classification not possible
Non-ionic surfactant	Category2	Classification not possible
Ampholytic surfactant	Category3	Not classified
1-(2-methoxy- 2- methylethoxy- 2-propanol	Classification not possible	Classification not possible
2-Methyl-2, 4- pentanediol	Not classified	Not classified
Ethanol	Not classified	Not classified
1-Propanol	Not classified	Not classified
2-Propanol	Not classified	Not classified
Silicone oil	Classification not possible	Classification not possible
Preservative	Category1	Not classified
Fragrance	Classification not possible	Classification not possible
pigment	Classification not possible	Classification not possible

Hazardous to the ozone layer : No Data

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS

UN Class

Not applicable

UN Number

Not applicable

Packing Group : Not applicable

Marine pollutant : Not applicable

Domestic Regulations :

Container Yellow Label

Not applicable

Specific Safety Measures and Conditions for Transport

- "Warning! Flammable Keep Fire Away"
- 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.

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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 (Specific Combustibles Flammable Liquids)

Poisonous and Deleterious Substances Control Act

Not applicable

(contains no restricted substance, refer to 3. COMPOSITION/INFORMATION ON INGREDIENTS for details)

Industrial Safety and Health Act :

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 less than 5%

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

Industrial Safety and Health Act (Dangerous Goods) :

Flammable substance

Pollutant Release and Transfer Register Law (PRTR) :

Not applicable ; contains less than 1%

(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)

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

MSDS 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.