

Safety Data Sheet (SDS)

1. Product & Company Identification

Product Name

: Profoam 310

Manufacturer

: Yamato Protec Corporation

Address

: 5-17-2 Shirokanedai, Minato-ku, Tokyo

Phone Number

: 0570-080100 (Navi Dial)

Department

: Technical Support

Suggested Use & Limitations on Use

: Fire extinguishing agent for fire extinguishing equipment

2. Hazards identification

GHS classification

Health hazards

: Acute toxicity (oral) Category 4

: Acute toxicity (dermal) Category 3

: Acute toxicity (inhalation:vapours) Category 3

: Skin corrosion/irritation Category 2

: Serious eye damage/eye irritation Category 2

Reproductive toxicity Category 2

: Specific target organ toxicity (single exposure) Category 1 (respiratory system, kidneys, liver,

blood system)

: Specific target organ toxicity (single exposure) Category 3 (Narcosis)

Specific target organ toxicity (repeated exposure) Category 1 (blood system)

Environmental hazards

: Hazardous to the aquatic environment, short-term (acute) Category 3

: Hazardous to the aquatic environment, long-term (chronic) Category 3

GHS label elements

Hazard pictograms





Signal word

: Danger

Hazard statements

Harmful if swallowed. (H302)

Toxic in contact with skin or if inhaled (H311+H331)

Causes skin irritation. (H315) Causes serious eye irritation. (H319) May cause drowsiness or dizziness. (H336)

Suspected of damaging fertility or the unborn child. (H361)

Causes damage to organs (respiratory system, kidneys, liver, blood system). (H370)
Causes damage to organs (blood system) through prolonged or repeated exposure. (H372)

^{*}Hazards that are not described should be "Classification not possible" or "No classification"





Harmful to aquatic life with long lasting effects. (H412)

Precautionary statements

[Prevention]: Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood. (P202) Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Wash hands thoroughly after handling. (P264)

Do not breathe dust/fume/gas/mist/vapours/spray. (P260) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

[Response] : Get medical advice/attention if you feel unwell. (P314)

IF ON SKIN: Wash with plenty of water. (P302+P352)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

IF INHALED: Remove person to fresh air and keep comfortable for breathing (P304+P340)

Call a POISON CENTER or doctor. (P311)

Call a POISON CENTER or doctor if you feel unwell. (P312)

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. (P301+P312)

Rinse mouth. (P330)

IF exposed or concerned: Call a POISON CENTER or doctor. (P308+P311) IF exposed or concerned: Get medical advice/attention. (P308+P313) If skin irritation occurs: Get medical advice/attention. (P332+P313)

Take off immediately all contaminated clothing and wash it before reuse. (P361+P364)

Take off contaminated clothing and wash it before reuse. (P362+P364)

[Storage] : Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Keep cool. (P235) Store locked up. (P405)

[Disposal] : Dispose of contents/container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation. (P501)

3. Composition/information on ingredients

Substance or mixture

: Mixture

Chemical name	Concentration (%)	Reference number in the gazette list		CAS number
		CSCL No.	ISHL No.	CAS number
Polyoxyethylene alkyl ether sulfate ammonium salt	approx. 10	(7)-155 · (1)-391 (main component)	Listed	Trade secret
Higher alcohol	approx. 2	(2)-217	Listed	112-72-1
Higher alcohol	1.1 (included in the above 2)	(2)-217	Listed	112-53-8
Butyl cellosolve	approx. 30	(2)-407	Listed	111-76-2
2-Aminoethanol	< 1	(2)-301	Listed	141-43-5
Water and others	50 - 60	-	-	-

4. First aid measures

Inhalation : Remove person to fresh air and keep comfortable for breathing.

If you feel unwell, seek medical advice.

Skin contact : Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Eye contact : Immediately rinse with plenty of water (for at least 15 minutes).

Remove contact lenses, if present and easy to do. Continue rinsing.



[Profoam 310]

: Yamato Protec Corporation Reference number: SDS No.105-0 Creation date: June, 11, 2024

Get medical advice/attention.

Ingestion : Rinse mouth out with water.

Drink plenty of water.

Call a physician immediately.

Never give anything by mouth to an unconscious person.

Personal protection in first

aid and measures

: Wear proper protective equipment.

5. Fire fighting measures

Suitable extinguishing media :

Fire-extinguishing powder, Fire-extinguishing foam for water-soluble liquid, Carbon

dioxide, Sand, Water spray

Prohibited extinguishing

media

No information

Specific hazards

May liberate toxic gases.

Do not breathe fumes.

Specific fire fighting

Eliminate all ignition sources if safe to do so.

Use extinguishing agent suitable for surrounding fire.

Extinguish the fire from the windward side as much as possible.

Evacuate area.

Apply water spray or fog to cool nearby equipment.

Do not allow run-off from fire fighting to enter drains or water courses. Do not attempt to take action without suitable protective equipment.

Special protective equipment and precautions for fire-

fighters

Do not breathe fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures Do not attempt to take action without suitable protective equipment.

In case of important spillage: Evacuate area.

Ventilate spillage area.

Environmental precautions

Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and materials for containing and cleaning up

In case of minor spill, remove the material with the use of adsorbents (e.g. soil, dry sand, and

waste cloth).

Wipe off the rest with waste cloth or a rag completely.

Then wash the floor with plenty of water.

In case of massive spill, prevent runoff of the material by blocking with mounds, remove it

to a safe area, and collect it into drums.

Prevention of secondary

hazards

Remove all ignition sources and prepare extinguishing agent.

Use care in walking on spilled material.

Use non-sparking tools.

7. Handling and storage

Handling

Technical measures

Provide an emergency eyewash and a quick drench shower in the immediate work area.

Precautions for safe handling

Ensure good ventilation of the work station.

Wear proper protective equipment.

After handling the material, wash your hands and face thoroughly and gargle.

Prevents handling of incompatible substances or

No information.





mixtures

Storage

Safe storage condition

Protect from sunlight. Store in a well-ventilated place.

Store in a closed container.

Safe packaging materials

Use original container.

8. Exposure controls / Personal protection equipment

Control parameters

Chemical name	Japan administration	JSOH		
	level	OEL	Ceiling	
Butyl cellosolve	25 ppm	No data available	20 ppm (Skin) 97 mg/m³ (Skin)	
2-Aminoethanol	No data available	3 ppm 7.5 mg/m ³	No data available	

Engineering measures : Install local exhaust ventilation device if vapour, fume, mist, or dust generates.

Provide an emergency eyewash and a quick drench shower in the immediate work area.

Protective equipment

Respiratory protection : Wear appropriate mask. However, in places where oxygen is deficient or where there is a

risk of oxygen depletion, do not use a mask and wear an air-supplied respiratory protective

equipment appropriate for the danger instead.

Hand protection : Wear appropriate protective gloves. (e.g.) Impervious (chemical-/oil-/solvent-proof)

protective gloves

Eye protection : Wear appropriate eye and face protection. (e.g.) Chemical goggles. Face shield.

No data available

Skin and body protection : Wear appropriate protective wear and protective footwear. (e.g.) Long sleeve work clothes,

etc. and protective footwear. They must be made of impervious material.

Special notes : No information

9. Physical and chemical properties

Physical state : Liquid

Colour : Light yellow Odour : Ether odour

Melting/freezing point : \leq -7.5 °C (fluid point)

Boiling point or initial boiling point and :

boiling range

Flammability : No data available

Lower and upper explosion : 1.1 - 12.7 vol % (butyl cellosolve)

limit/flammability limit

Flash point : (Not applicable)
Auto-ignition temperature : No data available
Decomposition temperature : No data available

pH : Approximately 7.8 (20 °C)

Kinematic viscosity : No data available

Solubility :

Solubility in water : Soluble

Solubility in solvents : No data available





n-Octanol/water partition coefficient

No data available

Vapour pressure

0.080 kPa (20 °C, butyl cellosolve)

Density and/or relative density

Approximately 1.034 g/cm3 (20 °C)

Relative vapour density

No data available

Particle characteristics

No data available

Other properties

No data available

10. Stability and reactivity

Reactivity

No information

Chemical stability

Stable under normal conditions of use

Possibility of hazardous

Stable under normal conditions of use

reactions

Conditions to avoid Incompatible materials No information

Hazardous decomposition

No information No information

products

Other properties No information

11. Toxicological information

Acute toxicity (oral)

Category 4

LD50 1,197 mg/kg (calculated value) (including 3% component as unknown toxicity)

Acute toxicity (dermal)

Category 3

LD50 551 mg/kg (calculated value) (including 27% component as unknown toxicity) Classification not possible

Acute toxicity

(inhalation:gases)

Category 3

Acute toxicity (inhalation:vapours)

LC50 5.3 mg/L (calculated value) (including 30% component as unknown toxicity)

Acute toxicity

Classification not possible

(Inhalation:dust,mist) Skin corrosion/irritation

Category 2

(2-Aminoethanol:Category IA, Polyoxyethylene alkyl ether sulfate ammonium salt:Category 2,

Higher alcohol: Category 2, Higher alcohol: Category 2, Butyl cellosolve: Category 2, a

component:Category 2, a component:Category 2)

Serious eye

Category 2

damage/irritation

(a component: Category 1, 2-Aminoethanol: Category 1, Polyoxyethylene alkyl ether sulfate ammonium salt:Category 2A, Butyl cellosolve:Category 2A, a component:Category 2A, a component: Category 2A, Higher alcohol: Category 2B, Higher alcohol: Category 2B, a

component:Category 2B, a component:Category 2B, a component:Category 2B)

Respiratory sensitization

Classification not possible

Skin sensitization

Classification not possible (However, 2-Aminoethanol:Category 1)

Germ cell mutagenicity

Classification not possible

Carcinogenicity

Classification not possible

Reproductive toxicity

Category 2

(Butyl cellosolve:Category 2)

STOT-single exposure

Category 1 Category 3 (Narcosis)

(Butyl cellosolve:Category 1 Category 3 (Narcosis), 2-Aminoethanol:Category 1 Category 3

(Narcosis), a component: Category 3 (Respiratory tract irritation))

STOT-repeated exposure

Category 1

(Butyl cellosolve:Category 1, 2-Aminoethanol:Category 1 Category 2)

Aspiration hazard

Classification not possible





12. Ecological information

Hazardous to the aquatic

environment, short-term

(acute)

(Higher alcohol:Category 1, a component:Category 1, 2-Aminoethanol:Category 2, a

component:Category 3, a component:Category 3)
Category 3

Hazardous to the aquatic environment, long-term

(chronic)

(Higher alcohol:Category 1)

Category 3

Persistence and degradability

: No data available

Bioaccumulative

: No data available

potential

Mobility in soil : No data available

Hazardrous to the ozone

Classification not possible

layer

13. Disposal considerations

When disposing of residual waste, dispose of it in compliance with relevant laws and regulations.

When disposing of contaminated containers and packaging, remove the contents and then dispose of them in compliance with relevant laws and regulations.

14. Transport information

Any transportation practice regardless of by road, by sea, or by air must be in compliance with laws and regulations in your country or region.

International Regulations

UN number

: UN2810

Proper shipping name

TOXIC LIQUID, ORGANIC, N.O.S. (contains 2-Butoxyethanol)

UN classification

6,1 (Poison)

14.4. Packing group

III
Not applicable

Marine pollutant Transport regulations

Comply with regulations by IATA and IMDG for air transport and sea transport respectivily.

Special precautions in connection with transport

Make sure the container is not damaged, corroded or leaked before shipping.

Make sure to prevent the product from collapsing by loading it without falling, dropping, or

damag

Keep away from high temperature and direct sunlight.

Top Load Only.

Since it falls under the danger rules based on the Ship Safety Act, containers, signs and other necessary measures shall be taken in accordance with the provisions of the act in the case of sea

transportation.

15. Regulatory information

Regulatory information with regard to this product in your country or region should be examined by your own responsibility.

16. Other information

Literature references

Data by JAPAN SURFACTANT INDUSTRY ASSOCIATION

National Institute of Technology and Evaluation (NITE)

Japan Chemical Industry Ecology-Toxicology & Information Center (JETOC)

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in accordance with the Japanese Industrial Standard (JIS)