



Safety Data Sheet (SDS)

1. Product & Company Identification

Product Name

Chemical Foam A Agent

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

2. Hazards Identification

GHS Classification

Items not listed below are “Not classified”, “Unclassifiable”

Health Hazards

Acute Toxicity (Oral)

: Category 5

Skin Corrosion/Irritation

: Category 3

Serious Eye Damage/Eye Irritation

: Category 2B

Representation or Symbol

: Unclassifiable

Alert Level

: Warning

Health hazard statements

May be harmful if swallowed

Causes mild skin irritation

Causes eye irritation

Precautionary statement

Safety Precautions

Do not handle until all safety precautions have been read and understood.

Wash hands thoroughly after handling.

First Aid Measures

IF SWALLOWED

Call a POISON CENTER/ doctor if you feel unwell.

IF ON SKIN

If skin irritation occurs: Get medical advice/attention.

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**IF IN EYES**

Rinse cautiously with water for several minutes.

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

If eye irritation persists: Get medical advice/ attention.

Storage

Avoid high humidity, keep the product within the operating temperature range, and if possible, under lock indoors.

Disposal

The contents and the container should be disposed of by waste disposal contractors licensed by the Governor.

3. Composition/Information on Ingredients

Single Component or Mixture : Mixture

Chemical Name or Common Name : ABC dry chemical (chemical foam)

| Chemical Name or Common Name | CAS Number | JCSCL Number | Concentration or Concentration Range |
|----------------------------------|--------------|--------------|---|
| Sodiumu hydrogen carbonate | 144-55-8 | (1)-164 | 90 % and over |
| Chemical foam stailization agent | Trade secret | Trade secret | Trade secret |

4. First Aid Measures

IF INHALED

Call a POISON CENTER/ doctor if you feel unwell.

IF ON SKIN

If skin irritation occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes.

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

If eye irritation persists: Get medical advice/ attention.

IF SWALLOWED

Call a POISON CENTER/ doctor if you feel unwell.

5. Fire Fighting Measures

Fire Extinguishing Agent : Not applicable due to non-combustibility

Fire Extinguishing Agent Not To Be Used : Not applicable

Special Hazards : No data available

Special Fire Fighting Procedures : Not applicable

Protection of Fire Fighters : Not applicable

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6. Leakage Measures

Personal Precautions, Protective Equipment and Emergency Measures

The workers should wear suitable protective equipment (See “8. Exposure Prevention and Protection Measures”).

For indoor use, provide adequate ventilation until treatment is complete.

Prohibit unauthorized persons from entering the leaked place by stretching a rope, etc.

Do not touch any damaged container or leaked material without wearing suitable protective clothing.

Stay in the wind.

Ventilate sealed places.

Environmental Precautions

Be careful not to affect the environment by discharging into rivers and others.

Dispose of the collection as industrial waste.

Containment, and cleanup procedures and equipment

Sweep scattered matter together into a sealable container and dispose of it according to “13. Disposal Considerations”. Then, wash off with plenty of water. In this case, be careful so that thick waste fluid does not flow into rivers and others.

Prevention of Secondary hazards

Collect leaked material immediately.

Prohibit unauthorized persons from entering the area around the leaked place.

In the case of inflow into rivers or public waterways, report to the person in charge of pollution in the local government immediately.

7. Handling and Storage Instructions

Handling

Technical Measures : Implement measures stated in “8. Exposure Prevention and Protection Measures” and wear suitable protective equipment such as protective glasses and gloves, if required.

Precautions for Safety Handling : None in particular

Hygiene Measures : Wash hands thoroughly after handling.

Storage

Storage : Avoid high humidity, keep the product within the operating temperature range, and if possible, under lock indoors.

Container and Packing Material : Product container or appropriate fire extinguishing equipment, etc.

8. Exposure Prevention and Protection Measures

Control Concentration

Not specified.

Allowable Concentration

Not specified.

Equipment Measures

Install exhaust equipment in the dust work place.

Protective Equipment

Respiratory Protective Equipment : Wear suitable respiratory protective equipment.

Hand Protection : Wear suitable protective gloves.

Eye Protection : Use suitable eye protection.

9. Physical and Chemical Properties

| | |
|--|-----------------------------------|
| Physical State | : powder |
| Color | : Slightly yellow |
| Odor | : Unique odor |
| Melting Point/Freezing Point | : No data available |
| Boiling Point, initial boiling point and Boiling Range | : No data available |
| Flammability | : Not applicable |
| Lower and upper explosion limit/ flammability limit | : Not applicable |
| Flash Point | : No data available |
| Autoignition Temperature | : No data available |
| Decomposition Temperature | : No data available |
| pH | : 8.0 (8% water solution) (20 °C) |
| Kinematic viscosity (Viscosity) | : No data available |
| Solubility | : Almost soluble in water |
| Partition coefficient n-octanol/ water (log value) | : No data available |
| Vapor Pressure | : No data available |
| Density and/ or relative density (specific gravity) | : No data available |
| Relative vapour density | : No data available |
| Particle characteristics | : No data available |

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10. Stability and Reactivity

| | |
|----------------------------------|--|
| Reactivity | : No data available |
| Chemical stability | : Reacts with acidic substances and generates carbon dioxide gas. Carbon dioxide gas is generated by heating. |
| Hazardous Reactivity | : No hazardous reactivity under normal handling conditions. |
| Conditions to Avoid | : No data available |
| Incompatible Hazardous Materials | : No data available |
| Hazardous Decomposition Products | : No data available |

11. Toxicological Information

| | |
|---|------------------|
| Acute Toxicity | |
| Oral | : Category 5 |
| Demal | : Not classified |
| Inhalation :Gass | : Unclassifiable |
| :Vapours | : Unclassifiable |
| :Dust and Mist | : Unclassifiable |
| Skin Corrosion/Irritation | : Category 3 |
| Serious Eye Damage/Eye Irritation | : Category 2B |
| Respiratory or Skin Sensitization | : Unclassifiable |
| Germ-Cell Mutagenicity | : Unclassifiable |
| Carcinogenicity | : Unclassifiable |
| Reproductive Toxicity | : Unclassifiable |
| Specific Target Organ Toxicity (Single exposure): | : Not classified |
| Specific Target Organ Toxicity (Repeated exposure): | : Unclassifiable |
| Aspiration Hazard | : Unclassifiable |

12. Environmental Impact Information

| | |
|---|---------------------|
| Ecotoxicity | |
| Hazardous to the aquatic environment – Acute hazard | : Unclassifiable |
| Hazardous to the aquatic environment – Long term hazard | : Unclassifiable |
| Persistence and Decomposability | : No data available |
| Bioaccumulation | : No data available |
| Migration in Soil | : No data available |
| Hazardous to the ozonelayer | : Unclassifiable |

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13. Disposal Considerations

Residual Waste

Disposal should be in accordance with applicable laws and local regulations. The substance should be disposed of by waste disposal contractors licensed by the Governor or by local public entities if appropriate. Waste disposal contractor, if used, should be well informed of potential hazards and toxicity from the waste.

Contaminated Containers and Packages

Containers should be properly disposed of in accordance with applicable laws and local regulations. If containers are disposed of, their contents should be completely removed.

14. Transport Considerations

| | |
|-------------------------------------|---|
| United Nations Number | : When filled in a fire extinguisher, UN1044 |
| Product Name | : FIRE EXTINGUISHERS with compressed or liquefied gas |
| United Nations Classification | : 2.2 |
| Container Class | : Not applicable |
| Marine Pollution Materials | : No data available |
| Special Safety Measures | : Not applicable |
| National Regulations: | |
| Land Regulatory Information | Follow the provisions of the Fire Service Act |
| Aeronautical Regulatory Information | Follow the provisions of the Civil Aeronautics Act |
| Maritime Regulatory Information | Follow the provisions of the Ship Safety Act |

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15. Applicable Laws

Industrial Safety and Health Act

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (PRTR Law)

Not applicable

Poisonous and Deleterious Substances Control Act

Not applicable

Fire Service Act

Not applicable as dangerous goods

Civil Aeronautics Act

Not applicable

Ship Safety Act

Not applicable

Water Pollution Control Act

Not applicable

Sea Pollution Prevention Act

Not applicable

16. Other Information

This product should be used with the understanding that the use of any chemicals involves unknown potential hazards and toxicity. Hazards and toxicity depend on the environment of use and the storage conditions and period. We suggest that those with knowledge and experience be involved in all stages from use through storage and disposal.

The instructions provided in this document should apply when the product is handled normally. If the product is handled in a special way, proper safety precautions should be taken. Also, it should be used under the responsibility of the user.