



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Name of chemical material: Water fire extinguisher YW Agent
(Model approval No. YAKU DAI 19~1 GOU)

Company name: Yamato Protec Corporation

Address: Shirokanedai 5-17-2, Minato-ku, Tokyo, 108-0071 Japan

Phone No.: 0570-080100 (Navi Dial)

Department in charge: Technical support room

Recommended use and restrictions on use:

Extinguishing agent for fire extinguishers
Water, wetting agent added

2. Hazards Identification

GHS classification category

Physical and chemical hazards

No information.

Health hazards

No information.

GHS label elements

Not applicable.

Hazard statements

Not applicable.

Precautionary statements

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

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use personal protective equipment as required.

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 ON SKIN: If skin irritation occurs: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention if you feel unwell.

IF SWALLOWED or INHALED: Get medical advice/attention if you feel unwell.

Keep only in original packaging or the right cylinder.

Keep cool.

Dispose of contents in accordance with local regulation. Entrust the container (cylinder) to a waste disposer which is authorized by the prefectural governor.



3. Composition, information on ingredients

Substance or mixture:

Mixture

Name	CAS registry number	Official gazette notification reference number	Concentration range
Water	7732-18-5	-	Trade secret
Glycol	Available	Available	Trade secret

4. First aid measures

- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact: Gently wash with plenty of water. If skin irritation or rash occurs, get medical attention if necessary.
- Eye exposure: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if necessary.
- Ingestion: Rinse mouth. Give plenty of water to drink and get medical advice. Never give anything by mouth to an unconscious person.

5. Fire fighting measures

Suitable Extinguishing agent: No specific measures are required as the product itself is not flammable.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures:

Not applicable.

Environmental precautions:

Not applicable.

Methods and materials for containment and cleaning up:

Absorb the product with waste cloth. If huge amount is released accidentally, do not flush to sewer or rivers because there might be environmental impact. Collect into sealable containers and dispose of it as industrial waste.



7. Handling and storage

Handling

Follow instructions described in Section 8. Wear protective gears such as glasses and gloves if necessary.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Storage

Keep containers tightly sealed and store them at temperatures not exceeding 40°C nor below 0°C.

Keep only in the original container and the right cylinder. Do not transfer the liquid to open containers. Do not mix with water or other chemicals.

8. Exposure Controls and Personal Protection

Control Parameters (occupational exposure limit values or biological limit values)

Not applicable.

Engineering controls

Not established.

Individual protection measures

Respiratory protection Wear appropriate respiratory protective gears.

Hand protection Wear appropriate protective gloves.

Eye protection Wear an appropriate eye protector.

9. Physical/chemical properties

Appearance:	Colorless transparent liquid
Odor:	Odorless.
pH :	7.7 (20°C)
Initial boiling point:	No information.
Flash point:	Not flammable.
Freezing point:	-0.3°C
Specific gravity:	1.0 (20°C)
Viscosity:	No information.
Solubility in water:	Easily soluble



10. Stability and reactivity

Stability: Stable under normal handling conditions.
Possibility of hazardous reactions: No hazardous reactions under normal handling conditions.
Incompatible products: No information.

11. Toxicological Information

No acute toxicity or damage to particular organ or region is recorded.

12. Ecological information

Ecotoxicity: No information
Persistence/degradability: No information
Bioaccumulation: No information
Mobility in soil: No information

13. Disposal considerations

Residual waste

Residual waste must be dealt with related laws and regulations and municipal requirements.
Entrust the waste to an industrial waste disposer which is authorized by the prefectural governor or a municipal corporation.

Contaminated container and packing materials

The contaminated container and packing materials should be disposed appropriately in accordance with related laws and regulations and municipal requirements. When disposing of an empty container, remove its content cleanly.

14. Transport information

The product is not regulated by the UN Recommendations of the Transport of Dangerous Goods.

15. Applicable laws and regulations

Fire Service Act, Japan: Not applicable as dangerous goods.
Industrial Safety and Health Act, Japan: Not applicable.
Poisonous and Deleterious Substances Control Act, Japan: Not applicable.
Law concerning Pollutant Release and Transfer Register (PRTR Law), Japan: Not applicable.



16. Other Information

This MSDS is prepared on the basis of the latest information so far available to us as of the date hereof. However, Yamato Protec Corporation makes no warranty of any kind with respect to the information and data contained herein concerning the risk or hazardous nature. Thus, prior to the use of this product, you are requested to investigate the latest rules, ordinances and regulations of the country, region and related authorities, with the top priority given on them.

You should become aware that all chemical substances may have potential unknown risk or hazardous property, which differs depending on the service environment as well as the condition and period of storage. It is thus recommended to handle the product under the supervision of a person having expertise or experience, at any time of usage as well as during storage and disposal.

Since the information on the points to be noted provided herein relates only to normal use, in case of handling it under any special condition, you are requested to use it on your own responsibility after taking appropriate measures suitable to your service condition.