

Revision date: May 9, 2022

# Safety Data Sheet (SDS)

#### 1. Product & Company Identification

Product Name

YTK Agent (Type Approval Number: Agent No. 23 - 1)

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 2
Serious Eye Damage/Eye Irritation : Category 2A
Reproductive Toxicity : Category 1B
Specific Target Organ/Systemic Toxicity (Single exposure):

Category 1 (Respiratory system, heart, kidney, central nerve system)

Specific Target Organ/Systemic Toxicity (Repeated exposure):

Category 1 (Respiratory system, heart, central nerve system)

Representation or Symbol:

**(!**)

Alert Level : Danger

Health hazaed ststements

May be harmful if swallowed



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Causes skin irritation

Causes serious eye irritation

May damage fertility or the unborn child

Causes damage to Respiratory system, heart, kidney, central nerve system

Causes damage to Respiratory system, heart, central nerve system through prolonged or repeated exposure.

Harmful to aquatic life

## Precautionary statement

#### Safety Precautions

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

Wear respiratory protection.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

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

Wash hands thoroughly after handling.

Avoid release to the environment.

#### First Aid Measures

### IF SWALLOWED

Call a POISON CENTER/ doctor if you feel unwell.

#### IF ON SKIN

Wash with plenty water. 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 exposed or concerned

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.



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#### 3. Composition/Information on Ingredients

Single Component or Mixture : Mixture

Chemical Name or Common Name : Fire extinguishing

(Loaded stream (Neutrality))

|                 | `          | • //             |                     |
|-----------------|------------|------------------|---------------------|
| Chemical Name   | CAS Number | Official Gazette | Concentration or    |
| or Common Name  |            | Reference Code   | Concentration Range |
| Acetate salt    | Available  | Available        | 20 to 30%           |
| Ethylene glycol | 107-21-1   | 2-230            | 3 to 10%            |
| Borate salt     | Available  | Available        | Trade secret        |

#### 4. First Aid Measures

#### IF INHALED

Remove person to fresh air and keep confortable for breathing.

### IF ON SKIN

Wash with plenty of water and soap.

If experiencing respiratory symptoms: 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.

## If exposed

Get medical advice/attention.

#### 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

Immediately isolate the appropriate distances in all directions as leakage area.

Prohibit unauthorized persons from entering the area.

The workers should wear suitable protective equipment (See "8. Exposure Prevention and Protection Measures") and avoid eye or skin contact and inhalation.

Do not touch any damaged container or leaked material without wearing suitable protective clothing. Stay in the wind.

Leave depression.

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.

Collection, neutralization, 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.



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## 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.

Local Exhaust and Whole Ventilation : Implement local exhaust and whole ventilation stated in "8.

Exposure Prevention and Protection Measures."

Safe Handling Instructions : Use only outdoors or in a well-ventilated area.

Avoid contact, inhalation or swallowing. Wash hands thoroughly after handling.

Storage

Storage Conditions : 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 extinguisher.

## 8. Exposure Prevention and Protection Measures

Equipment Measures : Not specified.
Control Concentration : Not specified.

Allowable Concentration : Ethylene glycol STEL C 100mg/m³, Upper limit (ACGIH)

Protective Equipment

Respiratory Protective Equipment : Wear suitable respiratory protective equipment.

Hand Protection : Wear suitable protective gloves. Eye Protection : Use suitable eye protection.

Skin and Body Protection : Wear suitable protective clothing and masks.



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## 9. Physical and Chemical Properties

Physical State : liquid
Color : Colorless
Odor : Unique odor
Melting Point/Freezing Point : -20°C or less
Boiling Point, initial boiling point and Boiling Range : No data available

Flammability : No data availab

Lower and upper explosion limit/ flammability limit : Not applicable

Flash Point : None
Autoignition Temperature : No data available

Autoignition Temperature : No data available : No data available : No data available

pH :  $7.6 (20^{\circ}\text{C})$ 

Kinematic viscosity (Viscosity)

: No data available

Solubility

: Easily 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) : 1.19 (20°C)

Relative vapour density (specific gravity) : 1.19 (20°C) : No data available Particle characteristics : Not applicable

## 10. Stability and Reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions

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



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## 11. Toxicological Information

**Acute Toxicity** 

Oral : Category 5
Demal : Not classified
Inhalation :Gass : Unclassifiable
:Vapours : Unclassifiable
:Dust and Mist : Unclassifiable

Skin Corrosion/Irritation : Category 2
Serious Eye Damage/Eye Irritation : Category 2A
Respiratory or Skin Sensitization : Unclassifiable
Germ-Cell Mutagenicity : Unclassifiable
Carcinogenicity : Unclassifiable
Reproductive Toxicity : Category 1B

Specific Target Organ Toxicity (Single exposure): : Category 1 (Respiratory system, heart, kidney,

central nerve system)

Specific Target Organ Toxicity (Repeated exposure): : Category 1 (Respiratory system, heart, central

nerve system)

Aspiration Hazard : Not classified

## 12. Environmental Impact Information

Ecotoxicity

Hazardous to the aquatic environment – Acute hazard : Not classified
Hazardous to the aquatic environment – Long term hazard : Not classified
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 : 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:

Dangerous or Harmful Substances Subject to be Indicated their Names, etc.

(Appended Table 9, Order Article 18 (1) & (2), Article 57-1 of the Act)

Ethylene glycol

Dangerous or Harmful Substances Subject to be Notified their Names, etc.

(Appended Table 9, Order Article 18-2 (1) & (2), Article 57-2 of the Act)

Ethylene glycol (Cabinet Order No. 75): 3-10%

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 hazardous material

Civil Aeronautics Act:

Not applicable

Ship Safety Act:

Not applicable

Water Pollution Control Act:

Order Article 2 borate compound

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.