

[YNX Agent]: Yamato Protec Corporation Reference number: SDS No.097-1 Creation date: May 30, 2020 Revision date: May 9, 2022

Safety Data Sheet (SDS)

1. Product & Company Identification

Product Name

YNX Agent (Type approval number: Agent No. 2020 - 2)

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 4
Skin corrosion/irritation : Category 1C
Serious Eye Damage/Eye Irritation : Category1
Reproductive Toxicity : Category 1B

Specific Target Organ Toxicity (Single exposure):

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

Category 3 (Respiratory tract irritation, Narcotic effects)

Specific Target Organ Toxicity (Repeated exposure):

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

Environmental Toxicity

Hazardous to the aquatic environment – Acute hazard : Category 3

Representation or Symbol



Alert Level : Danger



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Health hazard ststements

Harmful if swallowed

Causes severe skin burns and eye damage

Causes serious eye damage

May cause drowinessor dizziness

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

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

May damage fertility or the unborn child

Harmful to aquatic life

Precautionary statement

Safety Precautions

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

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.

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

Wear respiratory protection.

First Aid Measures

IF SWALLOWED

Rinse mouth.

Do NOT induce vomiting.

Call a POISON CENTER/ doctor if you feel unwell.

IF ON SKIN

Rinse skin with water/shower.

Immediately call a POISON CENTER/doctor.

IF IN EYES

Rinse cautiously with water for several minutes.

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

Immediately call a POISON CENTER/doctor.

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 agent

Reinforced liquid for fire extinguishers (Neutral)

Chemical Name	CAS Number	Official Gazette	Concentration or
or Common Name		Reference Code	Concentration Range
Ethylene glycol	107-21-1	(2)-230	20 to 25%
Ammonia compound	Available	Available	1 to 30%
Hydrocarbon surfactant	Available	Available	1 to 1.5%
Fluorochemical surfactant	Available	Available	0.5%or less

4. First Aid Measures

IF INHALED

Remove person to fresh air and keep confortable for breathing.

IF ON SKIN

Rinse skin with water/shower.

Immediately call a POISON CENTER/doctor.

IF IN EYES

Rinse cautiously with water for several minutes.

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

Immediately call a POISON CENTER/doctor.

IF SWALLOWED

Rinse mouth.

Do NOT induce vomiting.

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.

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.

Safe Handling Instructions : 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 extinguisher, etc.



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8. Exposure Prevention and Protection Measures

Allowable Concentration : Ethyl

(Exposure limit, biological exposure index)

Equipment Measure Protective Equipment

Respiratory Protective Equipment

Hand Protection Eye Protection

Skin and Body Protection

Hygiene Measures

: Ethylene glycol

ACGIH (2010 edition) TWA-STEL C 100 mg/m³

: None in particular

: Wear suitable respiratory protective equipment.

: Wear suitable protective gloves.: Use suitable eye protection.

: Wear suitable protective clothing and masks.

: Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Physical State : liquid

Color : Light yellow transparent

Odor : Unique odor Melting Point/Freezing Point : -20.5°C or lower

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 : None

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

oH : 7.8 (20 °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) :1.12 (20 °C)

Relative vapour density : No data available

Particle characteristics : Not applicable



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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 : HF (hydrogen fluoride), F2 (fluorine gas) and fluorocarbons can

be generated.

11. Toxicological Information

Acute Toxicity

Oral : Category 4 Demal : Not classified Inhalation :Gass : Unclassifiable :Vapours : Unclassifiable :Dust and Mist : Unclassifiable

: Category 1C Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation : Category 1 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)

Category 3 (Narcotic effects)

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

Others

Other Environmental Toxicity:

BOD: $3.5 \times 10^5 \text{ mg/L}$ Measurement method JIS K 0102 21 COD: $2.1 \times 10^5 \text{ mg/L}$ Measurement method JIS K 0102 21



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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 or 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

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): 20-25%

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 Fluorine compound & ammonia compound

Sea Pollution Prevention Act

Harmful liquid substance Category Z substance

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.