

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		
	ssified", "Unclassifiable" or "Not eligible for classification"	
Health Hazards	ssined, Onclassifiable of Not engible for classification	
Acute toxicity, oral	Catagory 4	
Skin corrosion/irritation	: Category 4	
	: Category 1	
Serious Eye Damage/Eye Irritati		
Reproductive Toxicity : Category 1B		
Specific Target Organ Toxicity (
	m, heart, kidney, central nerve system)	
Category 3 (Respiratory tract		
Specific Target Organ Toxicity (
	m, heart, central nerve system)	
Environmental Toxicity		
Hazardous to the aquatic environ	nment – Acute hazard : Category 3	
Representation or Symbol		
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Alert Level	: Danger	



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.



3. Composition/Information on Ingredients

Single Com	onent or Mixture
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Chemical Name or Common Name

: Mixture

: 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 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.

5. Fire Fighting Measures

Fire Extinguishing Agent Fire Extinguishing Agent Not To Be Used Special Hazards Special Fire Fighting Procedures Protection of Fire Fighters

- : Not applicable due to non-combustibility
- : Not applicable
- : No data available
- : Not applicable
- : Not applicable



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.



8. Exposure Prevention and Protection Measures

Allowable Concentration (Exposure limit, biological exposure index)		
Ethylene glycol		
ACGIH (2010 edition)	TWA-STEL C 100 mg/m ³	
Equipment Measures		
None in particular		
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.	
Hygiene Measures	: Wash hands thoroughly after handling.	

9. Physical and Chemical Properties

Physical State, Form, Color	: Light yellow transparent liquid
Odor	: Unique odor
pH	: 7.8 (20 °C)
Melting Point, Freezing Point	: -20.5°C or lower
Boiling Point, initial boiling point and Boiling Range	: No data available
Flash Point	: None
Explosion Limits	: No data available
Vapor Pressure	: No data available
Vapor Density (air = 1)	: No data available
Specific Gravity (relative density)	: 1.12 (20 °C)
Solubility	: Easily soluble in water
Octanol-Water Partition Coefficient	: Not applicable
Autoignition Temperature	: No data available
Decomposition Temperature	: No data available
Odor Threshold	: No data available
Evaporation Rate	: No data available
Flammability (solid, gas)	: Not applicable
Viscosity	: No data available



10. Stability and Reactivity

Stability	: Stable under normal handling conditions
Reactivity	: No data available
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	: Category 4 (Oral)	
Skin Corrosion/Irritation	: Category 1C	
Serious Eye Damage/Eye Irritation	: Category 1	
Respiratory or Skin Sensitization	: No data available	
Germ-Cell Mutagenicity	: Not classified	
Carcinogenicity	: Unclassifiable	
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)		
Aspiration Hazard	: No data available	

12. Environmental Impact Information

Hazardous to the aquatic environment – Acute hazard		: Category 3
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
Harmfulness to ozone layer		: No data available
Others		
Other Environmental Toxicity:		
BOD: 3.5×10^5 mg/L	BOD: 3.5×10^5 mg/L Measurement method JIS K 0102 21	
COD: 2.1×10^5 mg/L Measurement method JIS K 0102 21		02 21



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 Product Name	: When filled in a fire extinguisher, UN1044 : 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



15. Applicable Laws

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.