



Safety Data Sheet (SDS)

1. Product & Company Identification

Product Name : K/SMOKE LIQUID
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 for fire extinguishing equipment

2. Hazards Identification

GHS Classification

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

Health Hazards : Not applicable
Environmental Hazards : Not applicable
Representation or Symbol : Not applicable
Alert Level : Not applicable
Health hazard statements : Not applicable

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

First Aid Measures

IF SWALLOWED, IF INHALED

Call a POISON CENTER/ doctor if you feel unwell.

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

Wash with plenty water. If skin irritation occurs: Get medical advice/ attention.

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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 : Fire Extinguishing Agent

Chemical Name or Common Name	CAS Number	Official Gazette Reference Code	Concentration or Concentration Range
Ammonium phosphate	Available	Available	20 to 40%
Potassium-containing compound	Available	Available	1 to 15%

4. First Aid Measures

IF INHALED

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 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

Prevent leakage into the rivers or public waterways.

Phosphorus and nitrogen contained in this product may eutrophicate water quality.

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.

8. Exposure Prevention and Protection Measures

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

9. Physical and Chemical Properties

Physical State	: liquid
Color	: Clear
Odor	: Unique odor
Melting Point/Freezing Point	: - 10.5°C or less
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
pH	: 7.1 (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)	: 1.24 (20 °C)
Relative vapour density	: No data available
Particle characteristics	: Not applicable

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: Stable under normal handling conditions
Hazardous Reactivity	: May produce ammonia gas in reaction to a strong alkaline substance. May react when contacting or mixing with a strong oxidizer.
Conditions to Avoid	: Sunlight, heat
Incompatible Hazardous Materials	: Strong alkaline substance, strong oxidizer
Hazardous Decomposition Products	: Ammonia, nitrogen oxide

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11. Toxicological Information

Acute Toxicity	
Oral	: Not classified
Demal	: Not classified
Inhalation :Gass	: Not classified
:Vapours	: Not classified
:Dust and Mist	: Not classified
Skin Corrosion/Irritation	: Not classified
Serious Eye Damage/Eye Irritation	: Not classified
Respiratory or Skin Sensitization	: Not classified
Germ-Cell Mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive Toxicity	: Not classified
Specific Target Organ Toxicity (Single exposure):	: Not classified
Specific Target Organ Toxicity (Repeated exposure):	: Not classified
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	: Cannot be classified

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	: Not applicable
Product Name	: Not applicable
United Nations Classification	: Not applicable
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

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 hazardous material
Civil Aeronautics Act	Not applicable
Ship Safety Act	Not applicable
Water Pollution Control Act	Order Article 2 Ammonia compound

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.

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