



Safety Data Sheet (SDS)

1. Product & Company Identification

Product Name

High performance ABC dry chemical (Type Approval Number: Agent No. 21 – 3)

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) : Not classified
Acute Toxicity (Dermal) : Not classified
Acute Toxicity (Inhalation) : Not classified

Environmental Hazards

Hazardous to the aquatic environment – Acute hazard : Not classified
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.

This SDS has been prepared based on the latest information available. However, we cannot guarantee the accuracy of the information and data contained herein, such as descriptions of hazards and toxicity. The latest rules, ordinances, laws and regulations of the national and local governments and organizations should be looked into and should apply.



First Aid Measures

IF SWALLOWED

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 exposed or concerned

Call a POISON CENTER/ doctor.

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 : High performance ABC dry chemical

Chemical Name or Common Name	CAS Number	JCSCL Number	Concentration or Concentration Range
Ammonium dihydrogen-phosphate	7722-76-1	1-379	≥ 90 %
Silica	7631-86-9	1-548	1 - 5%

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4. First Aid Measures

IF INHALED

Call a POISON CENTER/ doctor if you feel unwell.

IF ON SKIN

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.

If exposed or concerned

Call a POISON CENTER/ doctor.

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.

Precautions for Safety Handling : 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 extinguishing equipment, etc.

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8. Exposure Prevention and Protection Measures

Control Concentration

Not specified.

Allowable Concentration

Ammonium sulfate

ACGIH (2015 edition) : TLV-TWA 10 mg/m³

Silica

Japan Society for Occupational Health (2015 edition)

Dust of Category III Respirable dust 2 mg/m³

Total mine dust 8 mg/m³

ACGIH (2011 edition) : TLV-TWA 10 mg/m³

Equipment Measures

Install exhaust equipment in the dust work place.

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	: powder
Color	: Light red fine
Odor	: No odor
Melting Point/Freezing Point	: No data available
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	: No data available
Autoignition Temperature	: No data available
Decomposition Temperature	: No data available
pH	: No data available
Kinematic viscosity	: No data available
Solubility	: Almost insoluble in water, but soluble if water repellency is lost.
Partition coefficient n-octanol/ water (log value)	: No data available
Vapor Pressure	: No data available
Density and/ or relative density (specific gravity)	: No data available
Relative vapour density	: No data available
Particle characteristics	: Trade secret

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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, high temperature and high humidity
Incompatible Hazardous Materials	: Strong alkaline substance, strong oxidizer
Hazardous Decomposition Products	: Ammonia, nitrogen oxide, sulfur oxide

11. Toxicological Information

Acute Toxicity	
Oral	: Not classified
Demal	: Not classified
Inhalation :Gass	: Unclassifiable
:Vapours	: Unclassifiable
:Dust and Mist	: Unclassifiable
Skin Corrosion/Irritation	: No data available
Serious Eye Damage/Eye Irritation	: No data available
Respiratory or Skin Sensitization	: No data available
Germ-Cell Mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive Toxicity	: No data available
Specific Target Organ Toxicity (Single exposure):	: No data available
Specific Target Organ Toxicity (Repeated exposure):	: No data available
Aspiration Hazard	: No data available

12. Environmental Impact Information

Ecotoxicity	
Hazardous to the aquatic environment – Acute hazard	: Unclassifiable
Hazardous to the aquatic environment – Long term hazard	: Unclassifiable
Persistence and Decomposability	: No data available
Bioaccumulation	: No data available
Migration in Soil	: No data available
Hazardous to the ozonelayer	: Unclassifiable
Others	
Discharge into rivers and others may cause eutrophication due to phosphorus contained in this product, adversely affecting aquatic life.	

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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	: 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

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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)

Silica

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)

Silica (Government ordinance No. 312): 1-5%

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 dangerous goods

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.