

## Safety Data Sheet (SDS)

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### 1. Product & Company Identification

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Product Name : ABC dry chemical

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

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### 2. Hazards Identification

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#### GHS Classification

Items not listed below are “Unclassifiable” or “Not eligible for classification”

#### Health Hazards

Acute Toxicity (Oral) : Category 5

Serious Eye Damage/Eye Irritation : Category 2B

Specific Target Organ Toxicity (Single exposure) : Category 2 (Nerve system)

Representation or Symbol:



Alert Level : Danger

#### Health hazard statements

May be harmful if swallowed

Causes eye irritation

May cause damage to Nerve system

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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

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.

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3. Composition/Information on Ingredients

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Single Component or Mixture : Mixture  
Chemical Name or Common Name : ABC dry chemical

Chemical Name or Common Name	CAS Number	JCSCL Number	Concentration or Concentration Range
Ammonium sulfate	7783-20-2	1-400	45 - 70%
Ammonium dihydrogen-phosphate	7722-76-1	1-379	30 - 45%
Silica	7631-86-9	1-548	1 - 5%

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#### 4. First Aid Measures

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##### 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.

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#### 5. Fire Fighting Measures

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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

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### 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.

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## 7. Handling and Storage Instructions

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### 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

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### Control Concentration

Not specified.

### Allowable Concentration

Ammonium sulfate

ACGIH (2015 edition) : TLV-TWA 10 mg/m<sup>3</sup>

Silica

Japan Society for Occupational Health (2015 edition) : Dust of Category III Respirable Dust 2 mg/m<sup>3</sup>

Total mine dust 8 mg/m<sup>3</sup>

ACGIH (2011 edition) : TLV-TWA 10 mg/m<sup>3</sup>

### 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.

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## 9. Physical and Chemical Properties

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Physical State, Form, Color	: Light red fine powder
Odor	: No odor
pH	: 4.5 (2% water solution)
Melting Point, Freezing Point	: No data available
Flash Point	: No data available
Specific Gravity	: No data available
Explosion Limits	: No data available
Solubility	: Almost insoluble in water, but solubility if water repellency is lost.
Autoignition Temperature	: No data available
Decomposition Temperature	: No data available

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## 10. Stability and Reactivity

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Stability	: Stable under normal handling conditions.
Reactivity	: No data available
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

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## 11. Toxicological Information

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Acute Toxicity	: Category 5
Skin Corrosivity/Irritation	: Not classified
Serious Eye Damage/Eye Irritation	: Category 2B
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):	Category 2 (Nerve system)
Specific Target Organ Toxicity (Repeated exposure):	Not classified
Aspiration Hazard	: No data available

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## 12. Environmental Impact Information

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Hazardous to the aquatic environment – Acute hazard	: Not classified
Hazardous to the aquatic environment – Long term hazard	: Not classified
Ecotoxicity	: Fish toxicity Himedaka ( <i>Oryzias latipes</i> ) 24 hours TL <sub>m</sub> (LC50) 5,000 ppm or above
Persistence and Decomposability	: No data available
Bioaccumulation	: No data available
Migration in Soil	: No data available
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

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#### 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.

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### 14. Transport Considerations

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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

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### 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

### Sea Pollution Prevention Act

Not applicable

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## 16. Other Information

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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.