

Revision date: August 16, 2021

Safety Data Sheet (SDS)

1. Product & Company Identification

Product Name

New Mighty Foam (Type Approval Number: Foam No. 59-4)

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" or "Not eligible for classification"

Health Hazards

Skin Corrosion/Irritation : Category 2
Serious Eye Damage/Eye Irritation : Category 2A
Specific Target Organ/Systemic Toxicity (Single exposure):
Category 1 (Blood system, kidney, central nerve system)

Representation or Symbol:



Alert Level : Danger

Health hazaed ststements

skin irritation

Causes serious eye irritation

Causes damage to Blood system, kidney, central nerve system



[New Mighty Foam] Yamato Protec Corporation Reference number: SDS No.004-1

Creation date: May 10, 1995 Revision date: August 16, 2021

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 respiratory protection.

Avoid release to the environment.

First Aid Measures

IF SWALLOWED

Call a POISON CENTER/ doctor if you feel unwell.

IF ON SKIN

Wash with plenty of 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 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 Component or Mixture : Mixture

Chemical Name or Common Name : Fire extinguishing foam

(Protein foam fire extinguishing agent)

Chemical Name or Common Name	CAS Number	Official Gazette Reference Code	Concentration or Concentration Range
Keratin hydrolysate	Trade secret	Trade secret	Trade secret
Ethylene glycol	107-21-1	2-230	5 to 10%
Fluorochemical surfactant	Trade secret	Trade secret	< 3%



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4. First Aid Measures

IF INHALED

Call a POISON CENTER/ doctor if you feel unwell.

IF ON SKIN

Wash with plenty of 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.

If exposed or concerned

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.



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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.

Local Exhaust and Whole Ventilation : Implement local exhaust and whole ventilation stated in "8.

Exposure Prevention and Protection Measures."

Safe Handling Instructions : Use only outdoors or in a well-ventilated area.

Avoid contact, inhalation or swallowing. Wash hands thoroughly after handling.

Storage

Storage Conditions : 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

8. Exposure Prevention and Protection Measures

Control Concentration : Not specified.

Allowable Concentration : Ethylene glycol STEL C 100mg/m³, Upper limit (ACGIH)

Equipment Measures : Perform exhaust ventilation to keep the atmospheric concentration

within exposure limits.

Install eye washer and safety shower in the workplace to store and

handle this product.

Protective Equipment

Respiratory Protective Equipment : Wear a gas mask.

Hand Protection : Use impervious protective gloves.

Eye Protection : Wear protective glasses.
Skin and Body Protection : Wear protective clothing.



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9. Physical and Chemical Properties

Physical State : liquid

Color : Brown-black
Odor : Unique 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 : 6.9

Kinematic viscosity : 26 cSt (20 °C)

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) : 1.15

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 : 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.



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11. Toxicological Information

Acute Toxicity

Oral : Not applicable
Demal : Not applicable

Inhalation :Gass : Cannot be classified :Vapours : Cannot be classified :Dust and Mist : Cannot be classified

Skin Corrosion/Irritation : Category 2
Serious Eye Damage/Eye Irritation : Category 2A

Respiratory or Skin Sensitization : Cannot be classified Germ-Cell Mutagenicity : Cannot be classified Carcinogenicity : Cannot be classified Reproductive Toxicity : Cannot be classified

Specific Target Organ Toxicity (Single exposure): Category 1

(Blood system, kidney, central nerve system)

Specific Target Organ Toxicity (Repeated exposure): : Cannot be classified Aspiration Hazard : Not applicable

12. Environmental Impact Information

Ecotoxicity

Hazardous to the aquatic environment – Acute hazard : Not applicable
Hazardous to the aquatic environment – Long term hazard : Not applicable
Persistence and Decomposability : No data available
Bioaccumulation : No data available
Migration in Soil : No data available
Hazardous to the ozonelayer : Cannot be classified



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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 : 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): 5-15%

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Priority Assessment Chemical (Article 2-5 of the Act)

Ethylene glycol

Poisonous and Deleterious Substances Control 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

Fire Service Act

Not applicable as hazardous material

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.