



SAFETY DATA SHEET

2023-10-16

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910. 1200.
 Standard must be consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved OMB No.1218-0072

§ 1 - IDENTITY INFORMATION

Product Name (as used on label and list) : **Retarding Medium (AM 574)**

Manufacturer : HOLBEIN Works, Ltd.
 Address : 2-2-5, Ueshio, Chuo-ku, Osaka-shi
 OSAKA 542-0064 JAPAN

Telephone Number for information : 81-6-6191-7722
 Emergency Telephone Number : 81-72-985-1222 (HOLBEIN Labo, Ltd.)
 Preparer : ALAKI, Yutaka

§ 2 - HAZARD IDENTIFICATION

This product is water-based and not classified as dangerous for supply or conveyance.
 The ingredients are water-reducible and falls well within the acceptable safety limits.

Classification : Non-regulated
 Danger : Not flammable. Not support combustion
 Hazard information : Especially none
 Skin Irritation : Category 3
 Eye Effects : Category 2B / May causes eye stimulus
 Skin Sensitization : Out of category
 Respiratory Sensitization : Out of category
 Ecological consideration : Category 4 / Potential

§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture (* : Main ingredient)

Components (Specific Chemical Identity, Common Name(s), C.I. No) CAS. No.

Propylene Glycol *	CH ₃ CH(OH)CH ₂ OH	57-55-6
Glycol Ether *	—	Registered
Sodium Hydroxide	NaOH	1310-73-2
Polyacrylate	(C ₃ H ₄ O ₂) _x	9003-01-4
Water * —	H ₂ O	—

§ 4 - FIRST AID MEASURES

Eyes : In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.

Ingestion : In case of swallowing, drink plenty of water. Induce vomiting. If you feel unwell, seek medical advice.

Skin Contact : Wash with mild soap and water.

Inhalation : Upon inhalation of aerosol/vapor, take the person to fresh air.
 If there is difficulty in breathing, medical advice is required.

§ 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability :	Not combustible
Flash Point :	32° C on glycol ether (non-flammable on actual product itself)
Ignition Point :	270° C on glycol ether
Combustion Products :	Formation of carbon dioxide
Extinguishing Method :	N/A
Extinguishing Media :	N/A (Self-extinguishing)
Precaution for Firefighters :	Do not inhale combustion gases.
Unusual Fire and Explosion Hazards :	Material will not support combustion.

§ 6 - ACCIDENTAL RELEASE MEASURES

Wipe off.

§ 7 - HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing :
Avoid prolonged or repeated contact with skin and eyes.

§ 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Avoid invasion to the eyes or body. Avoid prolonged or repeated contact with skin.
Wash mouth or hands well after use.

§ 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance :	Colorless transparent slurry
Odor :	Mild odor of organic solvent
Specific Gravity (H ₂ O = 1) :	1.05
Boiling Point :	100~187 ° C
Vapor Density (Air = 1) :	—
Vapor Pressure (Butyl Acetate = 1) :	simile water
pH :	8
Solubility in Water :	Can be diluted

§ 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers :	Nonflammable on product.
Stability :	Stable under normal state
Reactivity :	None
Byproducts :	Carbon dioxide
	No thermal decomposition when stored and handled correctly.
Incompatibility (Materials to Avoid) :	None

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry :	Dermal, eye contact, inhalation, swallowing
Oral Toxicity (LD ₅₀) :	> 10,000mg/kg (equivalent by component)
	Toxicity of Retarding Medium itself is not confirmed.
Inhalation :	High density vapor irritates respiratory organ, and induces dizziness, headache.
Skin irritation :	Irritates the skin and causes inflammation (Sodium hydroxide)
Eye irritation :	Irritates to the eye mucous membrane and may hurt cornea (Sodium hydroxide)
Effects of Chronic Exposure, Carcinogenicity, Sensitization, Mutagenicity, Teratogenicity, Reproductive Toxicity :	No data available

§ 12 - ECOLOGICAL INFORMATION

Fish Toxicity : Not confirmed

§ 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations : Dispose in accordance with national and/or local regulations.
Generally it is diluted with excess water and disposed.

§ 14 - TRANSPORT INFORMATION

Precautions for Transport : None, especially
Hazard Class : Non-regulated
UN Number : N/A
Package Group : N/A

§ 15 - REGULATORY INFORMATION

Regulatory agencies and restrictions are minimal regarding conveyance or use of water-based products other than what has been specifically addressed.

Danger Class : N/A (Not flammable liquid)
Fire Service Law : N/A
Industrial Safety and Health Law : N/A

Conforms to ACMI, Art & Creative Materials Institute, under ASTM D 4236.

§ 16 - OTHER INFORMATION

Notice: The information of this sheet is based on the present state of our knowledge and does not therefore guarantee certain properties.