



SAFETY DATA SHEET

2019-5-17

May be used to comply with U.S. Department of Labor
 OSHA's Hazard Communication Standard, Occupational Safety and Health Administration
 29 CFR 1910.1200. (Non-Mandatory Form)
 Standard must be consulted for specific requirements. Form Approved OMB No.1218-0072

§ 1 - IDENTITY INFORMATION

Product Name (as used on label and list) : AM 591 GLOSS VARNISH (spray)
 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 : 81-72-985-1221
 Preparer : ALAKI, Yutaka

§ 2 - HAZARD IDENTIFICATION

Classification : Flammable Aerosols, Category 2
 Physical and Chemical Danger : Since this product contains gas under pressure, this has explosive danger when overheated or bashed.
 Varnish itself is flammable liquid, and fires by source.
 Acute toxicity : Category 4 / Harmful by inhalation
 Skin Irritation : Category 3 / May irritate skin
 Eye Effects : Category 2A / Causes serious eye irritation
 Target organ toxicity : Category 3 / Inhalation may induces the effects to central nervous system
 Respiratory Sensitization : Category 1 / Inhalation may cause allergy, asthma or dyspnea.
 Skin Sensitization : Category 1 / May cause allergic dermatitis



§ 3 - COMPOSITION / INGREDIENTS

Components (Specific Chemical Identity, Common Name(s), C.I. No)	CAS. No.
Resin (Acrylic resin)	25852-37-2
Solvent (Naphtha, Hydrated Heavy Petroleum)	64742-48-9
Solvent (Ligroin)	64741-42-0
Propellant (Dimethyl ether)	115-10-6
Propellant (LPG)	Mixture of 74-98-6, 106-97-8, 75-28-5

§ 4 - FIRST AID MEASURES

Inhalation : Upon inhalation of aerosol/vapor, take the person to fresh air.
 If there is difficulty in breathing, medical advice is required.
 Ingestion : N/A
 Eyes : In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.
 Skin Contact : Upon skin contact, wash with plenty of water, soap or other non-irritating cleansing agents.

§ 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Flammable

Flash Point :	−1.3 ° C (as varnish), −41 ° C (as dimethylether)
Autoignition point :	>165 ° C
Extinguishing Method :	Take off fire or other flammable materials, and use with extinguishing tools.
Extinguishing Media :	Foam, Dry powder, CO ₂
Unusual Fire and Explosion Hazards :	Over 40 ° C, excess inner pressure may cause deformation or explosion of can.

§ 6 - ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Material Is Released or Spilled :

	Take up with absorbent materials.
Prevention of Secondary Disaster :	Take off fire or other flammable materials.
Personal Consideration :	Use mechanical ventilation

§ 7 - HANDLING AND STORAGE

Handling Procedures/Equipment :	Because of mist, use ventilation and protective equipment. Avoid prolonged or repeated contact with skin and eyes. Use soap and water for clean-up.
Storage Requirements :	Keep from fire or flammable materials. Do not allow product temperature to rise over 40 ° C

§ 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls :	Use mechanical ventilation when applying.
Personal Protection :	Avoid inhaling aerosols. Put on a mask if necessary.
Administrative levels :	50ppm (dimethyl ether)
Threshold Limit Value :	1,200 mg/m ³ (197 ppm, Hydrocarbon)

§ 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance :	Colorless liquid
Odor :	Smell of petroleum (as varnish)
pH :	N/A
Boiling Point :	85~200 ° C (Varnish)
Specific Gravity (H ₂ O = 1) :	0.80
Solubility in Water :	Not soluble

§ 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers :	Flammable
Stability :	Stable under normal state
Byproducts :	Carbon dioxide and water in case of fire.
Reactivity :	None

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry :	Dermal, eye contact, inhalation Spray can may not allow swallowing.
Oral Toxicity :	LD ₅₀ > 22,000 mg/Kg (Equivalent by component) LC ₅₀ = 386 ppm/15min. (dimethyl ether, Mouse) LC ₅₀ = 308 g/m ³ (dimethyl ether, Rat)
Inhalation Toxicity :	Inhalation of concentrated vapor irritates eyes and/or bronchial pathway, induces dizziness or headache, or influences to central nerve.
Eye irritation :	Heavily irritant to the eye mucous membrane
Skin irritation :	Irritant to the skin mucous membrane. Long time or repeated contact may irritate to skin and may cause inflammation.

Effects of and/or Chronic Exposure, Sensitization, Mutagenicity, Reproductive Toxicity,

Carcinogenicity, Teratogenicity : No data on this product. IARC, The International Agency for Research on Cancer, classifies petroleum solvents as group 3, material which is not classified as carcinogen to human being.

Repeated Exposure : Inhalation of mist may cause irritation of bronchial pathway and/or stupor.

§ 12 - ECOLOGICAL INFORMATION

No suitable information

§ 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations : Push actuator (button), make wholly empty, open a little hole, and leave through a day.
If available, recycle empty can.

Waste Disposal Method : Product spill should be contained by previously described absorption methods, and dried product disposed of as normal waste according to your local regulations.

§ 14 - TRANSPORT INFORMATION

UN Proper Shipping Name : Spray
Hazard Class : Class 2.1
UN Number : 1950 (spray)
Packing Group : N/A

§ 15 - REGULATORY INFORMATION

Industrial Safety and Health Law : Flammable
Fire Service Law : Dangerous Materials ; Group 4, Petroleum Category 1
Regulation to Control Dangerous Materials : Conforms to article 41 and below.
High Pressure Gas Safety Law : N/A

Ministry of Economy, Trade and Industry Bulletin No.203

§ 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.