

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Emacol R-600E
 General Use: May be used for printing on textile, paper, and wood.
 Product Description: Nonionic surfactant solution.
 MSDS Number: US-0073

MANUFACTURER

Company Name: Matsui Shikiso Chemical Co., Ltd.
 Address: 64 Kamikazansakuradani-cho, Yamashina-ku, Kyoto 607-8466, JAPAN
 Telephone No.: +81 (75) 594-5612

AGENCY

Matsui International Co., Inc.
 Address: 1501 West 178th Street, Gardena, CA 90248, U.S.A.
 Telephone No.: (310) 767-7812

EMERGENCY TELEPHONE NUMBER: +81 (75) 594-5612 / (310) 767-7812

2. COMPOSITION/INFORMATION ON INGREDIENTS

No	Component(s)	CAS #	Approx. %
A	Surfactant	Trade secret	60
B	Methanol	67-56-1	8
C	Non-hazardous and other ingredients below reportable levels	N/A	Balance

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

This product is not considered to be hazardous under OSHA's Hazard Communication Standard.

3. HAZARDS IDENTIFICATION

HMIS Ratings

Health: 1
 Flammability: 2
 Reactivity: 1
 Protection: C

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

EMERGENCY OVERVIEW:

May cause respiratory tract, skin, and eye irritation.

POTENTIAL HEALTH EFFECTS

Inhalation:

Exposure to high concentration of vapor may cause nausea, headache and dizziness.

Eye: Product and the vapor may cause irritation.

Skin: Prolonged contact with skin or on people with sensitive skin may cause skin rash or inflammation.

Ingestion:

May cause discomfort in the stomach and pharynx.

Chronic:

Not available.

Carcinogenicity:

Not applicable.

POTENTIAL ENVIRONMENTAL EFFECTS:

Not available.

4. FIRST AID MEASURES

INHALATION:

Remove to fresh air and lie quiet. Loosen clothes. Maintain respiratory airway. Seek medical attention.

EYE: Remove contact lenses if easily possible. Immediately flush eyes with water for at least 15 minutes thoroughly. After that, seek medical attention immediately.

SKIN: Immediately take off dirty cloths and shoes. Wash with mild soap and water. If symptoms such as itch or irritation develop or persist, seek medical attention.

INGESTION:

Rinse mouth thoroughly with water. Induce vomiting if possible. Immediately seek medical attention. Do not give anything to unconscious person.

PROTECTION TO FIRST-AIDERS:

Wear personal protective clothing and equipment.

NOTE TO PHYSICIAN:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Hazardous Combustion Products:	Toxic gas such as carbon monoxide is included in combustion gas.
Flash Point:	86 °C / 186.8 °F
Lower Flammable Limit:	Not available.
Upper Flammable Limit:	Not available.
Autoignition:	Not available.
Conditions of Flammability:	Contacting with flame, high temperature or other source of ignition.
Explosion Data	
Impact Sensitivity:	Not sensitive to mechanical impact.
Static Discharge:	Sensitive to static discharge.

EXTINGUISHING MEDIA:

Use dry chemical, foam, CO₂ gas, sand, and water.

FIRE FIGHTING INSTRUCTIONS:

In case of fire fighting, wear respirator. Stay upwind during fire fighting. Cool equipment by water. Immediately remove containers to safe place.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:

Remove source of ignition. Ventilate area. Wear suitable personal protective equipment as needed. Prepare extinguishing media.

For small spill, absorb with dry sand, saw dust or rag, and collect into container for disposal. Wipe the remaining up with rag.

For large spill, dike with soil, blankets or sandbags to prevent from contaminating soil and collect into container with shovel or vacuum. Evacuate downwind people to safe area.

WATER SPILL:

Wear suitable personal protective equipment as needed. Avoid releasing spilled material into rivers and/or lakes. If material is released to public water, advice local authority.

7. HANDLING AND STORAGE

HANDLING:

Wear suitable protective equipment and clothing as needed to prevent the material from contacting skin and eyes. Use in well-ventilated area. Minimize vapor generation and avoid breathing vapor. Keep away from high temperature and flame. Prevent build-up of electrostatic charges. Wash thoroughly after handling.

STORAGE:

Store in a cool and dark place away from direct sunlight. Keep away from high temperature, flame, and strong oxidizer. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES:

Methanol	OSHA – PEL	200 ppm / 260 mg/m ³
	ACGIH – TLV (TWA)	200 ppm
	ACGIH – TLV (STEL)	250 ppm

EXPOSURE CONTROLS

Occupational Exposure Controls

Engineering Controls:

Local exhaust ventilation or general ventilation is necessary during indoor operation.

Personal Protection

Respiratory Protection:

Not necessary under normal handling condition. However, in an ill-ventilated area, wear chemical-cartridge respirator for organic gas, supplied-air respirator or self-contained breathing apparatus.

Hand Protection:

Wear rubber or plastic gloves.

Eye Protection:

Wear safety glasses or goggles.

Skin Protection:

Wear long pants, long sleeves, and boots when applicable.

Environmental Exposure Controls:

Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow liquid.
Odor:	Slight odor.
pH:	6.0 - 7.5
Boiling Point:	Not available.
Melting Point:	Not available.
Decomposition Temperature:	Not available.
Flash Point:	86 °C / 186.8 °F
Auto-Ignition Temperature:	Not available.
Flammability:	

If this product contact with heat, flame, or other source of ignition, it is flammable.

Explosive Properties:	Not available.
Oxidizing Properties:	Not available.
Vapor Pressure:	Not available.
Specific Gravity (water = 1):	1.027

Solubility

Water:	Soluble.
Partition Coefficient (n-octanol/water):	Not available.
Viscosity:	Not available.
Vapor Density:	Not available.
Evaporation Rate:	Not available.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	Fire, heating, and high temperature.
STABILITY:	Stable under recommended conditions of storage and handling.
MATERIALS TO AVOID:	Strong oxidizer.
HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:	None.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not available.
Eye Irritation:	Not available.
Skin Irritation:	Not available.
Sensitization:	Not available.
Repeated Dose Toxicity:	Not available.
Chronic Toxicity:	Not available.
Mutagenicity:	Not available.
Carcinogenicity:	Not applicable.
Reproductive and Developmental Toxicity:	Not available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	Not available.
MOBILITY:	Not available.
PERSISTENCE AND BIODEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
OTHER ADVERSE EFFECTS:	Not available.

13. DISPOSAL INFORMATION

Comply with all federal, state and local regulations.
Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT)

Hazardous Materials:	Not applicable.
Hazardous Materials Description and Proper Shipping Name:	Not applicable.
Hazard Class or Division:	Not applicable.
Identification Number:	Not applicable.
Packing Group:	Not applicable.
Label(s) Required:	Not applicable.

SEA TRANSPORT

IMDG

Class:	Not applicable.
Packing Group (PG):	Not applicable.
UN Number:	Not applicable.
Proper Shipping Name:	Not applicable.
Marine Pollutant:	Not applicable.

AIR TRANSPORT

ICAO/IATA

Class:	Not applicable.
Packing Group (PG):	Not applicable.
UN Number:	Not applicable.
Proper Shipping Name:	Not applicable.

15. REGULATORY INFORMATION

OSHA STATUS:

This product is not considered to be hazardous under 29 CFR 1910.1200.

TSCA STATUS:

All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117, 302):

Not applicable.

SARA TITLE III

Section 302 (40 CFR 355) – Extremely hazardous substance:

Not applicable.

Section 311/312 (40 CFR 370) – Hazard categories:

Immediate (acute) health hazard	N
Delayed (chronic) health hazard	N
Fire hazard	N
Sudden release of pressure	N
Reactive	N

Section 313 (40 CFR 372) – Toxic chemical:

Methanol

CONEG – Typical Metals present in ppm:

Cadmium (Cd)	N
Hexavalent Chromium (Cr(VI))	N
Lead (Pb)	N
Mercury (Hg)	N

ENCS (Japan): Components listed.

Please refer to any other federal, state and local regulations.

For specific questions please call to Matsui International Co., Inc. USA 3107677812.

16. OTHER

ABBREVIATIONS

OSHA: The Occupational Safety and Health Administration

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists, Inc.

IMDG: International Maritime Dangerous Goods

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

TSCA: Toxic Substances Control Act

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act of 1980

SARA: Superfund Amendments and Reauthorization Act of 1986

CONEG: the Coalition of Northeastern Governors

ENCS: Existing and New Chemical Substances

New and updated MSDS are presented in the ANSI Z400.1-1998 Sixteen-section format. All available information is included in systematic update.

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