

Material Safety Data Sheet

Issue Date: Dec 20th, 2018

Ochem-01

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Polyurethane Resin, PU Resin, Solvent Based Polyurethane Resin, Solvent Based PU Resin, Polyurethane Adhesive, etc.

Applicable product codes: EG7075A/EG7075B, EF2072A/EF2072B, HT3260A/HT3260B, HT3135A/HT3135B, EB4066A/EB4066B, EF2872A/EF2872B, EB4260A/EB4260B

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Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS NO.	HAZARDOUS	%
Ethyl acetate	141-78-6	YES	25-50
Polyurethane	9009-54-5	NO	50-75

The exact product composition depends on the source and purity used.

Section 3 - HAZARDS IDENTIFICATION

Hazard Category: 3.2 Moderate flammable liquid

Color: Light yellow

Odor: Solvent

HMIS

Health: 1 - Slight (Life)

Flammability: 3 - Highly flammable

Reactivity: 1 - Slight

Contact: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

GHS warning signs:



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Information pertaining to particular dangers for man and environment

Irritating to eyes, noses and throat, possible, risk of irreversible effects through inhalation, in contact with skin and if swallowed.

- Inhalation:** Symptoms from excessive inhalation of dust may include coughing and difficult breathing.
- Ingestion:** Large dose may cause abdominal spasms and diarrhea.
- Skin Contact:** May cause skin irritation. Constant exposure to excessive amounts may cause eczema.
- Eye Contact:** May cause redness, pain.

Possible to pollute the ground surface water, earth, atmospheric and drinking water

Section 4 - FIRST AID MEASURES

General information

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- Inhalation:** Supply fresh air. If required, provide artificial respiration. Seek immediate medical advice.
- Skin contact:** Immediately wash with water and soap and rinse thoroughly.
- Eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- Ingestion:** Drink enough warm water. Seek immediate medical advice.

Section 5 - FIRE FIGHTING MEASURES

- Flash Point:** 4°C
- Autoignition temperature:** 426°C
- Explosive limits – lower:** 2.0%
- Explosive limits – upper:** 11.5%

Extinguishing Media: Water spray, Carbon dioxide, dry chemical, extinguishing powder or sandy soil.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing. Keep unnecessary person away.

Unusual fire or explosive hazards: Vapors may accumulate in low or confined area, travel considerable distance to source of ignition, and flash back

Hazardous combustion products: Carbon monoxide and carbon dioxide

Section 6 - ACCIDENTAL RELEASE MEASURES

Person safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources
Environmental precautions:	Do not allow material to be released to the environment without proper governmental permits.
Clean-up methods:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Or wash with enough water to dilute, Then dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Keep away from ignition sources.

Section 7 - HANDLING AND STORAGE

Handling

Operator must be well trained professionally, must strictly follow the operating rules

Safe handling:	Ensure no smoking, kindling approaching the workplace Ensure good ventilation at the workplace Open and handle container with care Grounding the machine to prevent the accumulation of static electric charges
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Storage:	Protect against physical damage. keep them far away ignition sources, store in cooling area and without direct sunlight. Do not store together with oxidizing and acidic materials
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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:	(the main solvent of Ethyl Acetate) MAC permissible Exposure limits: 300mg/m ³
Engineering controls:	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits
Respiratory protection:	Use a half-face piece particulate respirator or a full-face piece positive-pressure, air-supplied respirator if there is potential to exceed exposure limits.
Skin protection:	Wear rubber protective gloves and antistatic lab coat, apron or coveralls.
Eye/face protection:	Use chemical safety goggles or glasses with side shields, wear face shield as necessary when spraying.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color :	light yellow or light brown
Odor:	Solvent
PH:	5-6 for the solvent-ethyl acetate
Vapor pressure:	101 mbar for solvent-ethyl acetate
Density to water:	0.90 for the solvent-ethyl acetate
Density to air:	1.59 for the solvent-ethyl acetate
Melting Point:	-83.6°C for the solvent-ethyl acetate
Boiling point:	77.2°C for the solvent-ethyl acetate
Flash point:	4°C for the solvent-ethyl acetate
Explosive limits – lower:	2.0%
Explosive limits – upper:	11.5%
Autoignition point:	426°C for the main solvent-ethyl acetate
Solubility:	soluble to acetone, toluene, etc.

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

Stability:	stable under ordinary conditions of use and storage
Materials to be avoided:	strong oxidizer
Hazardous reaction:	will no occur
Products of decomposition:	Carbon monoxide and carbon dioxide

Section 11 - TOXICOLOGICAL INFORMATION

Grade of NO-TOXIC

Chronic toxicity:	ORL-RAT LD50: >5620mg/kg
	ORL-RBT LD50: >4940mg/kg
	IHL-RAT LC50: >5760ppm/8h

Section 12 - ECOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: No information found.

Section 13 - DISPOSAL CONSIDERATIONS

Recommendation

Consult state, local or national regulations to ensure proper

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disposal. Disposal must be made according to official regulations. Incineration is the recommended method for disposal.

Section 14 - TRANSPORTATION INFORMATION

DOT regulations:

Hazard class:	3
Identification number:	UN 1133
Packing group:	II
Packing method:	Steel can
ADR/RID class:	Flammable for solvent

Section 15 - REGULATORY INFORMATION

N/A

Section 16 - OTHER INFORMATION

References:

Dangerous Chemical regulation and standard operation manual made by CQC

Canadian Centre for Occupational Health and safety, CHEMINFO Database

GB16483-2000 Chemical MSDS making regulation

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