

MSDS

POLYURETHANE RESIN

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: POLYURETHANE TWO-COMPONENT RESINS

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MSDS No.: OCHEM-06

Effective date: 2016.1.1

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Section 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Part	INGREDIENT	CAS NO.	HAZARDOUS
A Component	Hydroxyl Terminated Polyurethane	9009-54-5	NO
B Component	Isocyanate Terminated Polyurethane	9009-54-5	NO

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

Section 3 - HAZARDS IDENTIFICATION

HAZARD DESCRIPTION

None

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 and ingestion:

Symptoms from excessive inhalation of dust may include headache, running nose, sorethroat and difficult breathing , even bronchitis, lung failure, pulmonary edema.

Skin Contact:

May cause skin irritation. Constant exposure to excessive amounts may cause dermatitis.

Eye Contact:

May cause redness, pain, cornea damage

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

Section 4 - FIRST AID MEASURES

After inhalation

Supply fresh air. If required, provide artificial respiration. Seek immediate medical advice.

After skin contact

Take off the polluted cloth, Immediately wash with water and soap and rinse thoroughly.

After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing

Drink enough warm water. Seek immediate medical advice.

Information for doctor

Section 5 - FIRE FIGHTING MEASURES

Hazard properties: without heatable and spontaneously flammable phenomenon, but flammable in condition

Suitable extinguishing agents

Carbon dioxide , dry chemical, extinguishing powder or sandy soil.

Special hazards caused by the material, its products of combustion or resulting gases :

Carbon monoxide and carbon dioxide

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information:

Segregate the release place, restrict the people to pass in,

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources

Measures for environmental protection:

Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Ensure adequate ventilation.
Keep away from ignition sources.

Additional information:

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7 - HANDLING AND STORAGE

Handling

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

Information for 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

Storage

Requirements to be met by storerooms and receptacles:

Store in a cool, dry, ventilated location.

Information about storage in one common storage facility:

Protect against physical damage.
Avoid dust formation and keep them far away ignition sources, keep the room temperature less than 30 degree C
Avoid direct sun exposure and ensure the container tightly sealed.
Do not store together with oxidizing and acidic materials
Equip enough fire fighting equipment.
List clear warning label of dangerous cargo

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

MAC permissible Exposure limits: 0.1mg/m³

A system of local and/or general exhaust is recommended to keep employee exposures below the MAC limits. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area. And recommended to prepare the essential shower and eye-cleaning equipment .

Breathing equipment:

If the exposure limit is exceeded and engineering controls are not feasible, a half-face piece particulate respirator should be worn up. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres

Skin Protection:

Wear rubber protective gloves and antistatic lab coat, apron or coveralls.

Eye protection:

Use chemical safety goggles.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance : light yellow or light brown transparent sticky liquid

Density to water: 1.15+/-0,05

Boiling point: no information

Flash point: >80°C

Explosion limits(V/V): no information

Ignition point: no information

Solubility: soluble to ethyl acetate, etc.

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

Stability: stable under ordinary conditions of use and storage

Materials to be avoided: water

Hazardous Polymerization: will no occur

Products of decomposition: Carbon monoxide and carbon dioxide

Section 11 - TOXICOLOGICAL INFORMATION

Chronic toxicity:

ORL-RBT LD50: 10000mg/kg

ORL-RAT LC50: 369-490ppm/4h

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

Section 14 - TRANSPORTATION INFORMATION

DOT regulations:

Hazard class:	none
Identification number:	none
Packing group:	none
Suggestion according to IMO IMDG Code:	the substance is not subject to IMO IMDG code
Packing method:	Steel can
ADR/RID class:	none

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

DISCLAIMER:

The information and recommendations contained herein (including data and statements) are accurate as of the date hereof. No warranty of fitness for any



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Issuing date: DEC.20, 2015

Department issuing MSDS: Health, Safety and Environmental Department.

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