

<p style="text-align: center;">HEYO ENTERPRISES CO., LTD.</p>	<p style="text-align: right;">Water borne polyurethane polymer PUD1001</p>
	<p style="text-align: right;">2015/04/30</p>

Material Safety Data Sheet

SECTION 1 · Chemical Product and Company Identification

Product name : Water borne polyurethane polymer

Other name : PUD1001

Recommended use of the chemical and restrictions on use :

Leather coatings, wood coatings, textile dipping, glass fiber sizing and silk screen inks

Names, addresses, and phone numbers of the manufacturer or supplier :

Heyo enterprises company

Emergency contact phone numbers/fax numbers : 07-7510306

SECTION 2 · Hazard Identification

Classification of the substance or mixture : Non Hazardous Material

Label elements :

Symbol:

Signal word: -

Hazard substance: -

Hazard statement: -

Precautionary

Statements: Avoid contact with skin and eyes.

Other hazards : -

SECTION 3 · Composition/Information on Ingredients

Mixtures :

Chemical property : PUD1001

Substance Identity	CAS No.	Approx. Weight (%)
Water		60
Polyurethane polymer		40

Remark : This product designed for free of NMP, Tin, APEO, OPP, Phthalates, Heavy Metals, Formaldehyde, Perfluoromethane-sulfonate, Cd, As, also SVHC content. This product has been registered in IECSC .

SECTION 4, First Aid Measures

The first-aid measures for different exposure routes :

Inhalation : Remove from exposure to fresh air immediately . If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin contact : Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.

Eyes contact : Flush eyes with plenty water at least 15 minutes, occasionally lifting the upper and lower lids . Get medical aid.

Ingestion : Wash mouth out with water. Get medical aid.

The most important symptoms and hazardous effects :

The protection of first-aiders :

Notes to physicians : Non Hazardous Material

SECTION 5, Fire Fighting Measures

Suitable fire extinguishing media: The substance is not combustible

Specific hazards may be encountered during fire-fighting:

Specific fire-fighting methods:

Special equipment / instructions for the protection of firefighters:

SECTION 6, Accidental Release Measures

Personal precautions : Use proper personal protective equipment as indicated in Section 8.

Environmental precautions : Avoid runoff into storm sewers and ditches which lead to waterways . Clean up spills immediately, observing precautions in the Protective Equipment section .

Avoid generating dusty conditions.

Clean-up procedures : Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

SECTION 7, Safe Handling and Storage Measures

Handling procedures : Follow all MSDS and label precautions even after container is emptied because they may contain product residues.

Storage procedures : Store in a cool, dry place. Corrosives area. Do not store in metal containers . Keep containers tightly closed.

SECTION 8, Exposure Controls Measures

Engineering controls :

Control parameters

Substance name	8 hours time weighted average exposure limits (TWA)	short-term exposure limits (STEL)	maximum exposure limits (CEILING)	biological standards (BEIs)
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Personal protective equipment :

Respiratory protection : A respiratory protection program that meets OSHA 's 29 CFR 1910.134 and ANSIZ88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use .

Hand protection : Wear appropriate protective gloves to prevent skin exposure .

Eye protection : Use chemical safety goggles and/or a full face shield where splashing is possible .Maintain eye wash fountain and quick -drench facilities in work area.

Skin and body protection : Wear appropriate protective clothing to prevent skin exposure . Wear an impervious apron.

Hygiene measures : Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Wash clothing before reuse. Discard contaminated shoes.

SECTION 9, Physical and Chemical Properties

Appearance (physical state, colour, etc) : white emulsion, liquid	Odor : odorless
Odor threshold : -	Melting point/freezing point : -
pH value : 6-8	Boiling point/boiling range : 100°C
Flammability (solid, gas) : -	Flash point : °F °C
Decomposition temperature :	Test method : <input type="radio"/> Open cup <input type="radio"/> Closed up
Autoignition temperature :	Explosion limits :
Vapor pressure : 24.3mmHg@25°C	Vapor density : >1 (Air=1)
Density : 1.02	Solubility : Immiscible with water.
Partition coefficient of n-octanol/water :	Evaporation rate :

SECTION 10, Chemical Stability and Reactivity Information

Chemical Stability : Stable under normal temperatures and pressures .

Possible hazardous reactions occurring under specific conditions :

Conditions to be avoided : Heat.

Materials to avoid : Oxidizing agents.

Hazardous decomposition products : -

SECTION 11, Toxicological Information

Routes of exposure : Eye

Symptoms : -

Acute toxicity : CAS#121-44-8 : Inhalation, mouse: LC50= 6 gm/m³; Oral, rat: LD50= 460 mg/kg;

Skin, rabbit: LD50= 570 ul/kg

Chronic toxicity or long term toxicity : -

SECTION 12, Ecological Information

Ecological toxicity: -

Persistence and degradability: -

Bio-accumulative potential: -

Mobility in soil: -

Other adverse effects: -

SECTION 13, Waste Disposal Measures

Methods of waste disposal : Dispose of container and unused contents in accordance with federal , state and local requirements.

SECTION 14, Transport Information

United nations number (UN No) : -

UN Proper shipping name : -

Transport hazard class(es) : -

Packing group number : N/A ,non-hazard chemical

Marine pollutant (YES/NO) : YES NO

Specific transport measures and precautionary conditions : -

SECTION 15, Regulatory Information

Applicable regulations: -

SECTION 16, Other Information

Reference documents

MSDS prepared by

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Telephone: 07-7510306

Title: Manager

Name (signature):

Alex Lan

Date: 2015/04/30

Remark: “ – “ = not available ; “ / “ = not applicable

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