



Chan Sieh Enterprises Co., Ltd.

Revision Date 10 May, 2016

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPERATION AND THE COMPANY

Product Name : L-2812

Chemical Name: Aqueous Polyurethane Resin Dispersion

Suggested usage and limitation:

Company Information : Chan Sieh Enterprises Co., Ltd. **Emergency:** +886-2-2581-6516

3F, No.90, Nanking E. Rd., Sec.2 Tel: +886-2-2581-6516

Taipei, TAIWAN 104 Fax: +886-2-2531-7923

R. O. C. Email: chansieh@ms17.hinet.net

2. HAZARDS IDENTIFICATION

Hazard classification:

Labeling:

Hazard pictograms:

Signal word:

Hazard Statements: May cause skin reddish and dizziness.

May be harmful if by inhalation, skin absorbing or ingestion.

Precautionary statements: Handle with gloves if necessary.

Prevent flow into water of drainer and river.

Other hazards:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Characterization: Waterborne Polyurethane

CAS No.:

Hazard ingredients	Concentration (percentage)	Hazard pictograms
DMAC	7-10	
Triethylamine	1-2	

4. FIRST AID MEASURES

Inhalation Remove the patient to a place with fresh air.
Skin Contact: Wash with water.
Eye Contact: Immediately flush with plenty of water for 15 minutes, and obtain medical attention if still irritating.
Ingestion The patient should drink plenty of water immediately, and call a physician or poison control center immediately. Never give anything by mouth to or induce vomiting in person who is convulsing or unconscious.

The Most important Symptoms and hazardous effects: Skin reddish and dizziness

Personal protection for the first aid person: Current unknown.

Indication for physician: Stomach wash may be required if ingestion.

5. FIRE-FIGHTING MEASURES

Extinguish media: It is not flammable in emulsion type, but the dried residue will burn after water is vaporized. Use alcohol foam, CO₂, dry chemical as extinguish media.

Special hazards may occur during fire-fighting: Currently unknown.

Special fire-fighting procedure: do not push water directly to the fire to prevent fire extension.

Protection for fire fighter: Protective clothes and gloves

6. ACCIDENTAL RELEASE MEASUREMENT

Personal precautions Use personal protective equipment if necessary. Spilled material may cause floor to be slippery. Exercise caution.

Environmental precautions : Prevent flow into drainer or river.

Methods for cleaning up : Add absorbents and shovel into drums.

7. HANDLING AND STORAGE

Handling precautions No special request.

Storage conditions Store between 5°C and 40°C and prevent to be frozen with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Construction control: Close room should has ventilation system.

Control factors: TWA :-

STEL :-

Ceiling :-

LC₅₀: 100,000ppm/4H (rat, inhalation)

LD₅₀: 10,000mg/Kg (rat, ingestion)

Personal protection equipment

Respirators protection not required in a ventilation area.

Hands protection rubber or plastic gloves (depends).

Eyes protection chemical safety goggles (depends).

Skin and body protection -

Hygiene practices: Obey the operation rule and prevent unnecessary contact, be careful during handling, and wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Milky white liquid

Odor Slight

Specific gravity (water=1) 1.0 – 1.1 (20°C)

Boiling point (at 760mmHg) > 100°C

Freezing point 0°C

Solubility in water (% by wt.) 100%

Vapor pressure (at 20°C) 17 mm/Hg (20°C)

Vapor density (air=1) not applicable

pH value 7 ~ 9

Decomposition temp. -

Flashing point none -

Explosion Limited UEL : - LEL : -

Partition coefficient (n-octanol/water, log Kow) : -

10. STABILITY AND REACTIVITY

Stability Stable

Possible hazards under special condition None

Conditions to avoid None

Material to avoid Acids, Divalent metal ion

Hazardous decomposition products Not applicable

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Inhalation: slight amount of monomer's vapor will irritate the breath system.

Skin: continuous contact will make skin reddish

Eyes: irritation

Ingestion: Vomiting

Regional effects:

Sensitization:

Chronic toxicity or long term toxicity:

Special effects: - -

12. ECOLOGICAL INFORMATION

Ecotoxicity: LC50 -

EC50 -

BCF -

Persistence and degradability: Can be Bio-degradable.-

Bioaccumulative potential: Non accumulative

Mobility in soil: Most of parts will be absorbed by the soil when released into soil.

Other adverse effects: -

13. DISPOSAL CONSIDERATIONS

Incinerate in a furnace or bury in a landfill where permitted under local government regulations.

14. TRANSPORT INFORMATION

UN number:

UN Proper shipping name:

Transport hazard class(es):

Packing group:

Marine pollutant (yes/no): no

Specific transport measures and precautionary conditions:

15. REGULATORY INFORMATION

Road and traffic safety regulation.

16. OTHER INFORMATION

This information is made by our Ta-Yuan Plant.

The information contained in this safety data sheet is the result of the most up-to-date available in our company. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation. The user must ensure that the information is suitable and complete in relation to the specific use of the product
