#### No.: EL128

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#### **1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

Chemical name: Epoxy resin product

Synonym: NPEL-128

Relevant identified uses and uses advised against: Civil engineering, coating, laminates, adhesives

Manufacturer, importer or supplier:

NAN YA PLASTICS CORPORATION LIMITED

Address: 201 Tung Hwa N. Road, Taipei City

Tel: (02)27178258

Emergency telephone number/tax number: tel: (02)26806311-2724

fax: (02)26808725

#### 2. HAZARDS IDENTIFICATION

Classification of the chemical: Skin corrosion/irritation, category 3; Serious eye
damage/irritation, category 2B; Skin sensitization,
category 1; Chronic environmental hazard,
category 3
Identification:
Pictogram: exclamation mark
Signal word: Warning
Hazard Statements:
Cause mild skin irritation.
Cause eye irritation.
May cause allergic skin reaction.
Hazardous to aquatic life with long lasting effects.
Precautionary Statements:
Wear suitable protective clothing and gloves.
If eyes/skin contact occurs, immediately wash with plenty of water
and get medical advice.
Close the container tightly and place in well-ventilated place. Avoid
release to the environment.
Other hazards:

#### 3. COMPOSITION / INFORMATION OF INGREDIENTS

Pure substance

Chinese name and English name: 液态环氧树脂 (Liquid Epoxy Resin)

Synonym: --

CAS No.: 25068-38-6

Hazardous ingredients (Percentage of the ingredients): 100%

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#### 4. FIRST AID MEASURES

First aid methods for different exposure routes:

- Inhalation: 1. Remove the source of contamination or move the patient to fresh air. 2. If discomfort continues, seek medical attention immediately.
- Skin contact: 1. Rinse the contaminated area with water and soap for 5 minutes or until the contaminant is removed.

Eye contact: 1. Wipe off or absorb excess chemical as soon as possible. 2. Immediately hold eyelids open and flush gently with running warm water for 15 minutes or until contaminant is removed. 3. Seek immediate medical attention.

Ingestion: 1. Give the patient 240-300 ml of water to dilute the compounds in the stomach. 2. If the patient vomits spontaneously, tilt his body forward to reduce the risk of aspiration. Rinse the mouth and give water repeatedly.3. Seek immediate medical attention.

Most important symptoms and hazard effects: --

Protection for first-aiders: Wear level C protective equipment to perform first aid in the safety zone.

Notes to doctors: --

## **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing agents: dry chemical powder, carbon dioxide, water spray,		
foam		
Special hazards arising from the fire:		
Special firefighting procedure: 1. Stay upwind to avoid toxic decomposition		
product. 2. Use water spray to cool tanks or		
containers exposed to the fire. 3. Use water jet to		
extinguish is useless.		
Special protective equipment for firefighters: Firefighters must wear air breathing		
apparatus, bunker clothing and		
protective gloves.		

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: 1. Restrict access until the spill area is completely cleaned up.		
2. Cleanup should be done by trained personnel. 3. Wear appropriate		
personal protective equipment.		
Environmental precautions: 1. Ventilate the leak area. 2. Remove all sources of		
ignition 3. Notify the government of occupational		
safety and health and environmental protection-related		
units.		
Methods for cleaning up: 1. Do not touch the spill. 2. Avoid spills into sewers or		
confined spaces. 3. Stop or reduce spills if safety permits.		

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	4. Contain the spill with soil, sand, or other stable and non-
	flammable materials that will not react with the leak. 5. For
	small spills, absorb the spill with an absorbent that will not
	react with the spill. Contaminated absorbent should be
	contained in appropriate covered containers properly
	labeled. 6. For large spills, contact firefighting units,
	emergency response units and suppliers for assistance.

### 7. HANDLING AND STORAGE

Disposal:

1. Use away from spark, open fire or other combustion sources, and post "no smoking" signs in work areas. 2. Emergency response devices for fighting fire and leaking should be provided.

Storage:

1. Store in cool, dry, well-ventilated places away from direct sunlight. Away from heat, ignition sources and incompatible materials.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering control: 1. Use non-sparking, grounded ventilation system separated			
from the general exhaust system. 2. Discharge exhaust air			
directly to the outdoors and take appropriate measures for			
environmental protection. 3. Provide sufficient fresh air to			
	supplement the a	ir discharged from the	e exhaust system.
Control parameters			
8h time weighted	Short-term time	Moximum	
average	weighted average	Maximum	Dielegiaaligdiaater
permissible	permissible	permissible	
concentration	concentration	concentration CEILING	BEI
TWA	STEL		
Personal protective equipment:			
Respiratory protection: activated carbon mask			
Hand protection: impervious gloves			
Eye protection: 1. protective mask 2. chemical safety goggles.			
Skin and body protection: overall work clothes, work boots.			
Hygiene measures: 1. Take off contaminated clothes as soon as possible after work and			
wash before reuse. 2. Smoking, eating or drinking is strictly prohibited in the workplace.			

3. Wash hands thoroughly after handling this material. 4. Keep the workplace clean.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: colorless or pale yellow liquid	Odor: None
Odor threshold:	Melting point:

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pH value:	Boiling point/boiling range: >250℃
Flammability (solid, gas):	Flash point: >252℃
Decomposition temperature:	Test method: ( ) open cup (V) closed cup
Autoignition temperature:	Explosive limits:
Vapor pressure:	Vapor density:
Density: 1.16 (water=1)	Solubility: practically insoluble (in water)
Partition coefficient of n-Octanolwater (log	Evaporation rate:
Kow):	

### **10. STABILITY AND REACTIVITY**

Stability: Stable under normal conditions.

Possible hazardous reactions under special conditions: 1. Peroxide, strong reducing agent: reacts violently, increasing the risk of fire and explosion.

Conditions to avoid: Static electricity, sparks, flames and other sources of ignition.

Materials to avoid: 1. Strong oxidizing agent. 2. Strong reducing agent. 3. Amines.

Hazardous decomposition products: Thermal decomposition produces CO, CO2, etc.

### **11. TOXICOLOGICAL INFORMATION**

Exposure routes: skin, inhalation, eyes, ingestion

Symptoms: headache, nausea, vomit

Acute toxicity:

Inhalation: -

Skin: Direct contact may cause mild irritation.

Eyes: Irritating if contact eyes.

Ingestion: Irritate the throat, esophagus and stomach.

Chronic toxicity or long-term toxicity: Repeat or long-term exposure may cause allergic reaction or dermatitis.

Special effects: --

#### **12. ECOLOGICAL INFORMATION**

Ecotoxicity: LC50 (fish): 3.1 mg/l/96H

EC50 (invertebrate): 1.4~1.7 mg/l/48H

Biological concentration factor (BCF): 200~3000

Persistence and degradability: The biodegradability is low.

Bioaccumulation: --

Mobility in soil: Mobility is low if released into the soil.

Other adverse effects:

#### **13. DISPOSAL CONSIDERATIONS**

Disposal method:

1. Dispose according to relevant regulations.

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2. Waste to be disposed of should be stored according to storage safety requirements.

3. Product can be disposed of through incineration and landfill.

## **14. TRANSPORT INFORMATION**

UN Number: 3082

Proper shipping name: Environmentally hazardous substance, liquid, N.O.S.

Transport hazard class: 9

Packing Group: III

Marine pollutant: No

Special shipping method and considerations: -

## **15. REGULATORY INFORMATIONS**

Applicable regulations:

Occupational Safety and Health Act

Road Traffic Management and Penalty Act

Criteria for the Industrial Waste Storage, Collection and Processing Facility

Classification and Labeling Requirements for Hazardous Chemicals

Standards of Permissible Exposure Limits of Airborne Hazardous Substances in the Workplace

<b>16. OTHER INFORMATION</b>		
Defense	1 DTECC 4-4-1	

Reference	1. RTECS database, TOMES PLUS disc, Vol.41, 1999		
	2. HSDB database, TOMES PLUS disc, Vol.41, 1999		
Prepared by	Company name: NAN YA PLASTICS CORPORATION LIMITED		
	Address: 201 Tung Hwa N. Road, Taipei City		
	Tel: (02)27178258		
Prepared by	Title: senior technical personnel	Name (seal): 周垂偏	
Prepared on	01/24/2018		
Note	"-" – No information available;	"/" – Not applicable	

This information is based on our current knowledge and is believed to be reliable. However, we cannot guarantee its accuracy nor assume responsibility for any results of using it. User has the responsibility to determine the suitability of the product for a particular purpose.