



NAN YA Ident No.: EL127H

Material Safety Data Sheet

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Revision : 2001-11-01

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name:

NPEL-127H

Company identification:

NAN YA Plastics Corporation

201, Tung Hwa North Road, Taipei, Taiwan, R.O.C.

Telephone: 886-2-27178257~8

Telefax: 886-2-27182258

Emergency telephone: 886-2-26806311 EXT724

2. COMPOSITION / INFORMATION OF INGREDIENTS

Ingredients : Bisphenol-A epoxy resin(number average molecular weight < 700)
CAS-No. : 25068-38-6
Hazard symbols : Xi
R-phrases : R36/38-R43
Concentration : >99.9%

3. HAZARDS IDENTIFICATION OF THE PRODUCT

Irritating to eyes and skin, may cause sensitization by skin contact.

4. FIRST AID MEASURES

After skin contact:

Rinse with plenty of water and soap. Remove contaminated clothes.

After eye contact:

Rinse immediately with plenty of water for at least 15 minutes, and seek medical advice.

After inhalation:

Move to fresh air. Seek medical advice if symptoms persist.

After ingestion:

Do not vomit; instantly seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Foam, dry powder, carbon dioxide, water spray jet.

Unsuitable extinguishing media:



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High pressure water jet.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Wear protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Keep away ignition sources.

Wear suitable protective equipment.

Environmental precautions

Do not allow to enter drainage system, surface or ground water.

Method for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

7. HANDLING AND STORAGE

Handling:

Ensure good ventilation/suction at the workplace.

Avoid open flames and sources of ignition.

Storage:

Keep away from food and drink.

Keep container tightly sealed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

Ensure for good ventilation/suction.

Control parameters:

None

Personal protection equipment

Respiratory protection: suitable breathing mask when there is inadequate ventilation.

Hand protection: suitable protective gloves.

Eye protection: protective goggles.

Skin and body protection: suitable protective clothes.

9. PHYSICAL AND CHEMICAL PROPERTIES



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Physical state : liquid
Color : yellowish
Boiling point : >150°C
Flash point : >150°C
Density : (20°C) 1.16g/cm³
Solubility : (20°C) practically insoluble in water.
Viscosity : (25°C) 10000~12000cps

10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid static electricity discharge.

Material to avoid:

Strong acid, strong base, strong oxidizer and amines.

Hazardous decomposition products

In fire toxic fumes may be generated.

11. TOXICOLOGICAL INFORMATION

Ingestion:

Acute oral toxicity: LD₅₀ 10000~11400 mg/kg body weight.

Skin contact:

Irritating to skin.

Eye contact:

Irritating to eyes.

12. ECOLOGICAL INFORMATION

Biological degradability:

Not readily biodegradable.

Bioaccumulation:

No information available.

Ecotoxicity:

Toxic to aquatic organisms.(LC₅₀ between 1 and 10 mg/L)**13. DISPOSAL CONSIDERATIONS**

Dispose of according to regulations.



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14. TRANSPORT INFORMATION

Transport over land ADR/RID

Class: 9 Number/Letter: 11-C

Hazard No.: 90

UN No.: 3082

Proper shipping name: environmentally hazardous substance, liquid, n.o.s.

Transport over sea IMDG

Class: Free

Transport by air ICAO/IATA

Class: Free

15. REGULATORY INFORMATIONS

Hazard labels : Xi Irritant

R-phrases : R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact

S-phrases : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water and soap.

S37/39 wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

This information is based on our current level of knowledge and relates to the products in the states in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

FIELD JOINT LAMIN 250MM 32BAR
EPOXY BUTT WRAP LAMINATION JOINT

| | | | | |
|-----|--------|-----------|-----------|------|
| DIA | 250 MM | PRESSURE | 32.0 | BARS |
| | | THICKNESS | 10.8 | MM |
| | | BOND AREA | 150 + 150 | MM |

FIT LAYER

| | | | |
|----------------------|-------|-----|-----------------|
| Woven roving (270/5) | 0.049 | KGS | 4 layers |
| Epoxy Resin | 0.550 | KGS | |
| Easy-Fit A | 0.118 | KGS | |
| Lactic Acid | 0.006 | KGS | |
| Cabosil | 0.011 | KGS | |

WEIGHT OF MATERIAL

| | | | |
|---|-------|-----|------------------|
| Woven roving (270/10) (winding) | 0.00 | KGS | 0 layers |
| Woven roving (360/10) (initial winding) | 1.08 | KGS | 12 layers |
| Woven roving (360/10) (winding) | 0.45 | KGS | 5 layers |
| Woven roving (580/10) (winding) | 1.16 | KGS | 8 layers |
| Woven roving (360/10) (sealing layer) | 0.18 | KGS | 2 layers |
| Epoxy Resin Easy-Fit | 2.30 | KGS | |
| Curing Agent Easy-Fit | 0.539 | KGS | |

| | | | |
|---------------------|-------------|------------|--|
| Top Tape 100 mm | 0.75 | SQ MTS. | |
| TOTAL WEIGHT | 6.44 | KGS | |

Future Pipe Industries
AG Lamination Recipe

Prepared :
 Approved :

Recipe Ref. : GRE SHOP JOINT / 250Ø / PN 32

Date : 13-Nov-07