



NAN YA PLASTICS CORPORATION

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NAN YA Rigid PVC Opaque sheet

DATE : Oct.4, 2018

MATERIAL SAFETY DATA SHEET

1. CEMICAL PRODUCT AND COMPANY IDENTIFIICATION

Manufacture's Name : NAN YA PLASTICS CROP. CHIA-YI 4TH PLANT, PLASTICS 3RD DIV.

Manufacturer's Address : NO.201, PEIKANG RD., SEC. 2, TAIBAO CITY, CHIA-YI COUNTY TAIWAN

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Product Name : NAN YA PVC Opaque sheet

Product Family Name : PVC sheet

2. PRODUCT IDENTIFIICATION

Chemical Name or Synonyms : Poly Vinyl Chloride

3. PRODUCT COMPONENTS

| <u>COMPONENTS</u> | <u>CAS REG. NO.</u> | <u>WEIGHT(%)</u> |
|-------------------|---------------------|------------------|
| 1. PVC | 9002-86-2 | >88 |
| 2. Tin Stablizer | | 2~1 |
| 3. Filler | | 5~4 |
| 4. Process Aid | | 4~2 |
| 5. Lubricant | | 2~1 |
| 6. Pigment | | 2~0.5 |

4. PHYSICAL PROPERTIES

| | |
|-----------------------|---------------------------|
| Appearance : | Opaque color planar sheet |
| Odor : | N/A |
| Viscosity : | N/A |
| Melting Point : | N/A |
| Boiling Point : | N/A |
| Vapor Pressure : | N/A |
| Vapor Density : | N/A(Air=1) |
| Specific Gravity : | 1.3~1.5@25°C (Water=1) |
| PH : | N/A |
| Solubility in Water : | Negligible |
| Volatility : | Negligible(Weight%) |

Evaporation Rate : Negligible(Butyl Acetate=1)

5. FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point : N/A

Auto Ignition Temperature : N/A

Upper Explosion Limit(%) : N/A

Lower Explosion Limit(%) : N/A

Extinguishing Media : Dry chemical water.

Fire protection Equipment : Wear self-contained, positive pressure breathing apparatus (MSHA/NIOSH approved, or equivalent) and full protective gear.

Unusual Fire And

Explosion Hazard : Powdered material may form explosive dust-air mixtures..

6. WORKPLACE EXPOSURE

| | <u>OSHA</u> | |
|--|--------------------|-------------|
| <u>COMPONENTS</u> | <u>PEL</u> | <u>STEL</u> |
| 1. PVC sheet | None | None |
| 2. Nuisance dusts (as particulates) | 5mg/m ³ | None |

7. HAZARD INFORMATION

Hazard Scale : 0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme

Health Designation : 1

Fire Designation : 1

Reactivity Designation : 0

Inhalation : Inhalation of vapors from heated product can cause nausea, Headache, dizziness as well as irritation of lungs, nose, and throat.

Eye Contact : Vapors from heated product can irritate the eyes.

Ingestion : Low hazard associated with normal conditions.

Skin Contact : Possible skin irritation. Contact with molten material can result burns.

Carcinogenicity : N/A

8. EMERGENCY AND FIRST AID PROCEDURES

Inhalation : If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eye Contact : If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

Ingestion : Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.

Skin Contact : If burned by contact with molten material. cool as quickly as Possible. Do not peel material from skin. Get medical attention.

9. REACTIVITY INFORMATION

| | |
|--|--|
| Stability : | Stable |
| Conditions to Avoid : | None |
| Hazardous Decomposition Decomposition | Thermal decomposition or combustion may emit vapors, carbon carbon monoxide, or carbon dioxide or hydrochloric acid . |
| Products : | |
| Incompatible Compounds : | |

10. SPILL OR LEAK INFORMATION

Sweep or scoop up and remove.

11. WASTE DISPOSAL

Landfill or incinerate at a facility that complies with local, state and federal regulations.

12. EXPOSURE CONTROLS / PERSONAL PROTECTION MEASURES

| | |
|--------------------------|---|
| Respiratory Protection : | None required under normal conditions. See Section 13. |
| Hand Protection : | Canvas or cotton gloves. |
| Eye Protection : | It is a good industrial hygiene practice to minimize eye contact. Wear a face shield when working with molten material. |
| Other Protection : | N/A |
| Ventilation : | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstance such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc. |

13. STORAGE AND HANDLING INFORMATION

| | |
|---------------------------------|---|
| Maximum Storage Temperature: | N/A |
| Storage Measures: | If material is stored under ambient temperature conditions, it is not hazardous. Avoid contact with molten material. |
| Handling Measures: | Keep away from fire. Blower collecting and local exhaust ventilation systems should be installed to prevent contaminant dispersion into the air. Sawing of this product generates particulates regulated as “inert” or “ nuisance ” dusts. To minimize dust emissions, engineering controls should be employed. such as baghouse filters and cyclone separators. |

14. GLOSSARY

| | |
|-------------------|---|
| mg/m ³ | milligrams per cubic meter (concentration) |
| MSHA | Mine Safety and Health Administration |
| N/A | Not Applicable or Not Available |
| NIOSH | National Institute for Occupational Safety and health |

| | |
|------|---|
| OSHA | Occupational Safety and health Administration (Department of Labor) |
| PEL | Permissible Exposure Limit (time-weighted average) |
| PET | Poly Ethylene Terephthalate |
| STEL | Short-Term Exposure Limit (15-minute) |

The information presented herein is believed to be factual and reliable. It is offered in good faith., but without guarantee, since conditions and methods for the use of our products are beyond our control. We recommend that the prospective user determine the suitability of our products and these suggestions before adopting them on a commercial scale.

Please direct comments and questions to NAN YA CHIA-YI 4TH PLANT Environmental.
Heath and Safety