



Material Safety Data Sheet

1.PRODUCT AND COMPANY INFORMATION

Product name : PolychloropreneAdhesive

Other names : Grip Glue

Product code : H70GG , H71GG

Use recommendations and limitations : Adhesive

2.HAZARDS IDENTIFICATION

Hazards classification : Flammable liquids Category 2, Skin corrosion/Irritation Category 2, Serious eye damage/eye irritation Category 2A, Skin sensitization Category 1, Acute toxicity Category 4 (oral), Specific target organ systemic toxicity ~ repeated exposure Category 1, Hazardous to the aquatic environment/acute toxicity category 3, Aspiration hazard Category 1

Label content : -

Pictogram : Flame, Health Hazard, Exclamation mark

Signal words : Danger

Hazard statements :

- Highly flammable liquid and vapor
- Harmful if swallowed
- Cause skin irritation
- Cause serious eye irritation
- Long-term or repeated exposure will cause damage to organs
- Be fatal if swallowed and enter the respiratory tract
- Toxic to aquatic organisms and long lasting impact
- It may cause skin allergy

Precautionary statements :

- Close container tightly
- It's far away from the ignition and should be in No Smoking area
- Store in a cool and well ventilated place.
- Wear suitable gloves
- Once clothes are contaminated , remove immediately
- Wear eye/face protection.
- Avoid contact with eyes or skin. If eye contacts, flush immediately with water and get medical aid.
- Do not eat, drink or smoke when using this product.
- Do not induce vomiting.
- Avoid release to the environment

Other hazards : -

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3. INGREDIENTS IDENTIFICATION INFORMATION

PURE MATERIAL :

Name : /
Synonyms : /
CAS No. : /
The hazardous ingredient (% of the content) : /

MIXTURE :

Chemical property :	
Names of hazardous ingredients	Concentration or concentration ranges (% of contents)
Toluene (TOL)	54-59%
Methyl Ethyl Ketone (MEK)	6-9%
Mixture-Hexane	9-12%
Methyl Methacrylate (MMA)	0-4%
Names of nonhazardous ingredients	Concentration or concentration ranges (% of contents)
Chloroprene Rubber	14-18%
Synthetic Resins	6-10%

4. FIRST-AID MEASURES:

The first-aid measures for different exposure routes:
<ul style="list-style-type: none"> • inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration or Cardio-Pulmonary Resuscitation. If breathing is difficult, give oxygen. Get a prompt medical care. • skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get a prompt medical care. • eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Get a prompt medical care. • ingestion: Do not induce vomiting. Apply 240-300c.c water to drink. Get a prompt medical care.
The most important symptoms and hazardous effects: Vapor may depress central nervous system. It may cause insensibility at high concentration.
The protection of first-aids: Wear impervious gloves to prevent from contacting with pollutant.

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Notes to physicians: If somebody ingests it, it may wash out the stomach.

5. FIRE-FIGHTING MEASURES:

Suitable fire extinguishing media: Dry chemical powder, alcohol foam, and carbon dioxide.

Special hazards may be encountered during fire-fighting:

It is flammable for liquid and vapor. Vapor is heavier than air and can be transported far away. It may spread to distant back when it meets ignition source and flash. It will decompose and produce toxic gas at high temperature. It is flammable at room temperature. High concentration in water may be flammable.

Special fire-fighting methods:

Situating at upwind area to prevent from danger vapor and poisonous decomposition. Use water to cool exposed containers. Use water spray to slake fire may not be effective, except firefighter is trained by flammable liquid extinguishing. Use water to slake fire is not effective. People without protection equipment can not entry the place.

Special equipment for the protection of firefighters:

Wear air respiration, protecting clothes and gloves.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Restrain people to close the area unless it cleans well. Check for the people that do the cleaning job are well trained. Wear suitable protecting equipments.

Environmental precautions:

Ventilate area of leak or spill. Remove all source of ignition. Notice relative environmental department of government. **Prevent spillage from entering into the sewage or closed system.**

Methods for cleaning up:

Under the safe situation, try to block or reduce overflows and leaks. **Take up the spillage** with earth soil, dry sand, or other appropriate materials. Place **the spillage** in a chemical waste container. Call emergency and associate agents for assistance on disposal.

7. SAFE HANDLING AND STORAGE MEASURES

Handling: Keep out of reach of children. Avoid breathing vapors. Use only in a well ventilated area. Do not get in eyes, skin, or clothing. Wash thoroughly after handling.

Storage: Storage in a cool, dry and well ventilated location. Keep away from heat and flame.

Storage and use area should be No Smoking area.

8. EXPOSURE CONTROLS MEASURES

Engineering control : Use partial air exhaust device, when use inspects the air relief installation and the working space, avoids the heat, the spark and the fire hazard.

Control parameters

8 hours time weighted average exposure limits	Short-term exposure limits	Maximum exposure limits	Biological standards
100ppm (TOL) 200ppm (MEK)	125ppm (TOL) 250ppm (MEK)	-	2mg/L (Methyl Ethyl Ketone, After work in

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100ppm (MMA)	125ppm (MMA)		urine)
Personal protective equipment : <ul style="list-style-type: none"> • Respiratory protection : Use positive pressure respiration • Hand protection : Protection Gloves (PVC、Teflon、Viton) • Eye protection : 1. Chemical safety goggles; 2. Mask. • Skin and body protection : 1.Full protecting clothes. 2. Working boots. 3.Must have shower or wash eyes equipment at working area. 			
Hygiene measures : The operational site refuses to smoke or the diet, after the processing, must wash the hands thoroughly.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearances(state、color. etc.) : Light yellow gonorrhea liquid	Odor : Irritating smell of solvent
Odor threshold : 0.049-85ppm (detect) 0.034-75ppm (discover)	Melting point : -
pH value : -	Boiling point / Boiling range : 68°C ~ 110°C
Flammability(solid、liquid) : -	Flashpoint : °F -21.7 °C
Decomposition temperature : 300°C	Test method : Open cup ● Close cup
Auto-ignition temperature : 480°C ~ 516°C	Explosion limits : 1.0% ~ 12.5%
Vapor pressure : 22~78 mmHg@20°C	Vapor density : heavier than air
Density : MEK : 0.81、TOL : 0.86、MMA : 0.944。	Solubility : slightly soluble in water
Octanol / Water partition coefficient : -	Evaporating rate : -

10. STABILITY AND REACTIVITY

Stability : Stable under ordinary conditions of use and storage.
Possible hazardous reactions occurring under specific conditions : <ol style="list-style-type: none"> 1.Strong oxidant (peroxide, nitrate, perchloride acid) : Increase fire and explosion dangerous 2.Chloride: Extremely react and cause fire. 3.Fluoride and Nitrogen dioxide: Explosion
Conditions to avoid : Heat, flames, ignition source of incompatibles.
Materials to avoid : Strong oxidation and strong acid.
Hazardous decomposition products : Contact with heat may decompose CO _x or NO _x

11. TOXICOLOGICAL INFORMATION

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Exposure routes : Inhalation 、 Skin and Eye contact 、 Ingestion
Symptoms : Vapor will cause the damage of brain, liver, kidney and bladder.
Acute toxicity : Inhalation: Cause nose, throat and the breathing passages irritation. Cause tiredness and Lethargy. High concentrations are destructive to the mucous membranes, upper respiratory tract, lung irritation, chest pain and edema and central nervous system. Skin: Cause slight irritation. Long-term to contact cause dermatitis. Eye: Cause slight irritation. Ingestion : 1. To restrain central nervous system.2. May cause dead. LD50(Rat, Oral) : <870 mg/kg (TOL) 、 2740mg/kg (MEK) 、 7872mg/kg (MMA) 。 LC50(Rat, Inhalation) : 6000ppm/4H (TOL) 、 11300ppm/4H (MEK) 、 78000 mg/m ³ /4H (MMA) 。
Chronic toxicity or long term toxicity : Long-term exposure may affect the central nervous system damage, upper respiratory tract, chest pain and non-actions; and may cause dermatitis.

12.ECOLOGICAL INFORMATION

Eco-toxicity : LC50 (Fish) : 7.3-22mg/1/96H (TOL) 、 690-5640 mg/1/96H (MEK) 0.089 mg/1/96H (MMA) EC50 (Invertebrate in water) (cyclops) : - BCF: 1 (Methyl Ethyl Ketone) 、 1.67-380 (TOL)
Persistence and degradation : half-life(air) : 64.2-642 hr (Methyl Ethyl Ketone) 、 10-104 hr (TOL) 、 2.7-3 hr (Methyl Methacrylate) half-life(surface water) : 24-168 hr (Methyl Ethyl Ketone) 、 96-528 hr (TOL) 、 6.3-336 hr (Methyl Methacrylate) half-life(ground water) : 48-336 hr (Methyl Ethyl Ketone) 、 168-672hr (TOL) half-life(soil) : 24-168 hr (Methyl Ethyl Ketone) 、 92-528 hr (TOL)
Organism accumulation : No accumulation.
Movement through soil, Koc : -
Other negative effects : -

13.WASTE DISPOSAL MEASURES

Methods of waste disposal : Discarded material should be incinerated at a permitted facility

14.TRANSPORT INFORMATION

United Nation number (UN No) : 1133
UN Name : Adhesive

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DOT hazard classification : Flammable liquids Category 3
Packing Group : II
Ocean contaminants (Yes/No) : no
Specific transport measures and precautionary conditions : -

15.REGULATORY INFORMATION

Applicable regulations :
OSHA : Hazardous by definition of Hazard Communication Standard (29 CFR 0910.1200)
Labor Safety and Health Law, Taiwan.
Rules on Hazard Communication of Dangerous and Toxic, Taiwan.