

Product name : Contact Adhesive

1. PRODUCT AND COMPANY INFORMATION

Product name	Contact Adhesive
Commodity name serial number of Hazardous goods	1133 (UN)
Manufacturer or supplier name, address and telephone	10 Admiralty Street Northlink Building #03-51/52/34 Singapore 757695
Urgent telephone and facsimile	+65 6853 3113(Tel) +65 6853 3003(Fax)

2. INGREDIENTS IDENTIFICATION INFORMATION :

Chemical Property :		
Names of the hazardous ingredients	Concentration or concentration ranges (% of contents)	Classification and hazard symbols of the hazardous material
ETHYL ACETATE (C ₄ H ₈ O)	15-30	3
SOLVENT	10-35	3
Chloroprene Rubber	20~25	
Synthetic Resin	5~10	—

3. HAZARDS IDENTIFICATION INFORMATION:

Adverse health effects : Danger! Flammable liquid and vapor. Vapor may cause flash fire. Harmful or fatal if swallowed. Harmful if inhaled or absorbed through skin. Irritating to skin, eyes and respiratory tract.
Environmental effects : When release it to soil or water will violate to air and bio-degrade. Release to air will react with hydroxyl free radicals in the air and degrade with time.
Physical and chemical effects : 1.Extremely flammable for liquids and vapors! 2.Vapors are heavier than the air. 3.It may flashback with source of ignition. 4.It will produce toxic gas and thermal degradation under high temperature.
Specific hazards :
Main symptoms : Symptoms may include headache, sickness, dizziness, drowsiness, confusion, senseless, death, eye and skin irritation.
Hazard classification of the product : 3

4. FIRST-AID MEASURES:

The first-aid measures for different exposure routes :
. inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

. skin contact : Removing contaminated clothing and shoes. Wash thoroughly with soap and water for at least 15 minutes. Clean clothing/shoes before reuse.
. eye contact : Check for and remove any contact lens. Immediately flush eyes thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
. ingestion : If swallowed, do not induce vomiting. Give large amount of water. Get medical attention immediately.
The most important symptoms and hazardous effects : Irritation , In high concentration may cause faint .
The protection of first-aid personnel : Use rubber gloves protect hands
Notes to physicians : Consider to gastric lavage when ingestion

5. FIRE-FIGHTING MEASURES :

Suitable fire extinguishing media : Dry chemical powder, alcohol foam, and carbon dioxide.
Special hazards may be encountered during fire-fighting : Flammable liquid! Eliminate source of ignition: heat, electrical equipment, sparks, and flames. Vapor may form explosive mixture with air. Vapor may travel considerable distance to ignite source and flash back. Container explosion may occur under fire condition. Cool exposed container with water.
Special fire-fighting methods : 1.Keep people away. 2.Isolate fire area and deny unnecessary entry .3.Do not use direct water stream. 4.May spread fire. 5.Use water spray to cool fire exposed containers and fire affected zone until is out and danger of re-ignition has passed . 6.Move container from fire area if this is possible without hazard. 7.Fight fire from protected holder or monitor nozzles. 8.Immediately with draw all personal form area case of rising sound from venting safety device or discoloration of the container. 9.Burning liquids may be moved by flushing with water to protect personnel and minimize property of damage. 10.Water fog, applied gently may be used as a blanket for fire extinguishment. 11.Contained may cause environmental damage. 12.Review the "Accidental Release Measure" and the "Ecological information " section of MSDS .
Special equipment for the protection of firefighters : Wear self-contained breathing apparatus (SCBA) and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : 1.Use appropriate personnel protective equipment. 2.Keep unnecessary and unprotected personnel from entering.
Environmental precautions : 1.Ventilate area of leak or spill. 2.Remove all source of ignition. Keep away from heat. Use water spray to reduce vapors.
Methods for cleaning up : Stop leak if without risk. Dike spill if need. Soak up with dry sand, vermiculite, earth or other appropriate materials. Place in a chemical waste container. Call 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. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment
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before transferring materials. Do not get in eyes, skin, or clothing. Wash thoroughly after handling.
Storage : Storage in a cool, dry, well ventilated location. Keep away from caustics and oxidizers, heat, spark and flame. Storage and use area should be No Smoking area.

8. EXPOSURE CONTROLS MEASURES

Engineering control : Use local exhaust to capture vapor, mists or fumes .Check all areas for vapor before entering keep away from heat, sparks and open flame.
Personal protective equipment : <ul style="list-style-type: none"> . eye protection : Wear chemical safety goggles with side shields. . respiratory protection : Using organic vapor respirator For emergency or instance use: a full-face piece positive pressure, air supplier respirator. Do not use air-purifying respirator in oxygen-deficient atmosphere. . skin and body protection : Solvent impervious gloves, apron, boots, pants and jacket.
Hygiene measures : Keep away from foodstuffs , drinks and tobacco . Wash hands before breaks and at end of work .

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid	Form : Viscous liquid
Color : Light yellow	Odor : Irritation solvent odor
pH value :	Boiling point/boiling range : 85
Melt Point: -8	Combution energy: 3578.6 kJ/mol
Decomposition temperature :	Flashpoint : 28 (close cup)
Critical pressure(Mpa) : 4.92	Critical temperature: 38.95
Ignition temperature:566	Vapor density (Air=1.0): 2.65
Density(Water=1) : 0.95	Solubility : Not dissolve in water

10. STABILITY AND REACTIVITY

Stability : Stable under ordinary conditions of use and storage.
Possible hazardous reactions occurring under specific conditions : 1.Strong oxidizers (such as nitrate or perchloride acid increase the challenge of explosion and fire).2.Chloride(react to fire).3.Fluoride(explode extremely).
Conditions to avoid : Heat, flames, ignition source of incompatibles.
Materials to avoid : Strong oxidizers, acids.
Hazardous decomposition products : COx or NOx may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Cause severe skin, eye irritation. High concentrations are destructive to the mucous membranes, upper respiratory tract, lung irritation, chest pain and edema and central nervous system.
Local effects : May cause the damage of brain, liver, kidney and bladder.
Sensitization : Prolonged/repeated skin contact may cause burning/dryness

Chronic toxicity or long term toxicity : Long term high concentrations are destructive to the mucous membranes, upper respiratory tract, lung irritation, chest pain and edema and central nervous system, may cause skin problem.

Specific effects :

12. ECOLOGICAL INFORMATION

Possible environmental effects/environmental mobility :

This material is not expected to significantly bioaccumulate.

When release to soil or water, this material may evaporate and biodegrade to a moderate extent.

When released into the air, this material is expected to have a half-life of less than 2 days.

This material is expected to be low toxic to aquatic life. .

13. WASTE DISPOSAL MEASURES

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

14. TRANSPORT INFORMATION

International regulations for transport :

1.DOT 49 CFR: Class: 3 Pack Group: II Label: FLAMMABLE LIQUID

2.IATA/ICAO UN Class: 3

3.IMDG Class: 3

United Nation number (UN No) : 1133

Domestic regulations for transport :

1.road safety rule 84.

2.Dangerous load rule in boat.

3.Dangerous load rule in Taiwn train.

Specific transport measures and precautionary conditions : Avoid exposing under sunlight directly

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.

16. OTHER INFORMATION

Abbreviations:

N/A: Not applicable N/E: Not established

NIF: No information found

Revision Date: 30th, Dec, 2016

Filling Department: Foreign Trading Department

Data Audit Unit: quality control