



CHIEN PAO INDUSTRY CO LTD

1. Product and Company Identification

Product Identification : POLYURETHANE RESIN ADHESIVES	
Product ID : CP-636H	
Manufacturer's Name : CHIEN PAO INDUSTRY CO LTD	
Manufacturer's Address : No.238 San jia St Beitun District TAICHUNG CITY 406 TAIWAN	
General Information Telephone : 886-4-24379881	
Emergency Telephone : 886-4-2437-9881	FAX : 886-4-2437-7351

2. Composition/Information on Ingredients

Ingredients

Ingredient Name : POLYURETHANE Ingredient CAS Number : — %TEST : >1% OSHA PEL : — ACGIH TLV : —
Ingredient Name : TOLUENE Ingredient CAS Number : 108-88-3 %TEST : >1% OSHA PEL : 200 PPM/150 STEL OSHA PEL Code : M ACGIH TLV : 50 PPM EPA Reporting Quantity : 1000 LBS DOT Reporting Quantity : 1000 LBS Ozone Depleting Chemical : N
Ingredient Name : METHYL ETHYL KETONE Ingredient CAS Number : 78-93-3% TEST : >1% OSHA PEL : 590 MG/M ³ ;200 PPM OSHA PEL Code : M ACGIH TLV : 590 MG/M ³ ;200 PPM ACGIH STEL : 885 MG/M ³ ;300 PPM EPA Rpt Qty : 5000 LBS DOT Rpt Qty : 5000 LBS Ozone Depleting Chemical : N
Ingredient Name : METHYL ACETATE Ingredient CAS Number : 00079-20-9 %TEST : 10%~25% OSHA PEL : — OSHA STEL : — ACGIH TLV : — EPA Reporting Quantity : — DOT Reporting Quantity : — Ozone Depleting Chemical : —

3. Hazards Identification, Including Emergency Overview

Route of Entry Indicators	Inhalation : YES Skin : YES Ingestion : YES
Health Hazards Acute & Chronic :	1. INHAL : ANESTHETIC, IRRIT TO RESPIRATORY TRACT/NS DEPRESSION (HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, UNCONSCIOUSNESS). 2. SKIN : IRRIT, DEFATTING, DERMATITIS. 3. EYE : IRRIT. 4. CHRONIC : PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE, LIVER & KIDNEY DAMAGE. LUNG INJURY.
Explanation Of Carcinogenicity	NO COMPONENT OF THIS PRODUCT HAS BEEN
Signs And Symptoms Of Overexposure	IRRITATION, HEADACHES, DIZZINESS, ANESTHETIC, DISCOMFORT, DERMATITIS
Medical Conditions Aggravated by Exposure:	ASTHMA AND OTHER RESPIRATORY AILMENTS; CHEMICAL SENSITIZATION.
3(FLAMMABLE)	

4. First Aid Measures

First Aid :	
INHALATION :	REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM & QUIET. ADMINISTER CPR IF BREATHING HAS STOPPED. CALL DR.
SKIN :	WASH W/SOAP & WATER. REMOVE CONTAM CLOTHES WASH BEFORE REUSE. CALL DR.
EYE :	FLUSH IMMED W/LARGE AMOUNTS OF RUNNING WATER >15 MINUTES. USE AN EYE FLUSH. TAKE TO DR.
INGEST :	CALL A DR/POISON CONTROL CENTER IMMED. IF SWALLOWED, DON'T INDUCE VOMITING. HAVE PATIENT REST. GIVE ACTIVATED MEDICAL CARBON. OBTAIN MEDICAL ATTENTION IN ALL CASES.

5. Fire Fighting Measures

Extinguishing Media :	FOAM, DRY CHEMICAL, CO2
Fire Fighting Procedures :	HIGHLY FLAMMABLE. STOP LEAK IF POSSIBLE. USE WATER SPRAY TO DISPERSE VAPORS. ALLOW FIRE TO BURN UNDER CONTROLLED CONDITIONS/EXTINGUISH W/FOAM/DRY CHEMICAL. TRY TO COVER LIQUID SPILLS W/FOAM. DON'T USE A WATER EXTINGUISHER WHEN PRINTERS ARE ON FIRE.
Unusual Fire/Explosion Hazard :	EXTREME HAZARD. LEAKS OF GAS/SPILLS OF LIQUID CAN READILY FORM FLAMMABLE MIXTURES AT TEMPERATURES AT/ABOVE FLASHPOINT.

6. Accidental Release Measures

N/A

7. Handling and Storage

Spill Release Procedures:	ELIMINATE SOURCE OF IGNITION. PREVENT FROM ENTERING SEWERS /WATERWAYS/LOW AREAS. ABSORB & PREVENT SPREAD W/SAND, SAWDUST EARTH BY MEANS OF SHOVELS/BUCKETS & TRANSFER TO SECURE CONTAINERS TO FACILITATE ITS' DISPOSAL/RECYCLING.
Waste Disposal Methods:	DISPOSE OF IAW/LOCAL, STATE & FEDERAL REGULATIONS. THIS PRODUCT IS NOT SUITABLE FOR DISPOSAL BY EITHER LANDFILL/VIA MUNICIPAL SEWERS. DISPOSAL OF MATERIAL MUST BE MADE ACCORDING TO LOCAL REGULATIONS.
Handling And Storage Precautions:	KEEP CONTAINER CLOSED. HANDLE W/CARE IN THE PRESENCE OF ADEQUATE VENTILATION. OPEN SLOWLY IN ORDER TO CONTROL POSSIBLE PRESSURE RELEASE. STORE IN A COOL WELL VENTILATED PLACE AWAY FROM IGNITION/HEAT SOURCES. FLOOR OF THE SHOP MUST BE INCOMBUSTIBLE & ACT AS A RETAINER.

8. Exposure Controls & Personal Protection

Personal protection : Safety glasses, adequate ventilation.
Eye Protection : SAFETY GLASSES
Respiratory Protection : USE APPROVED RESPIRATORY PROTECTION EQUIPMENT.
Ventilation : ADEQUATE
Protective Gloves : NATURAL/BUTYL RUBBER
Other Protective Equipment : IMPERVIOUS PROTECTIVE CLOTHING
Work Hygienic Practices : REMOVE/LAUNDER CONTAMINATED CLOTHING/SHOES BEFORE REUSE.

9. Physical & Chemical Properties

Appearance : LIGHT-YELLOW LIQUID	Odor : STRONG CHARACTERISTIC ODOR
PH : —	
Boiling point : —	Flash point : — °F 22 °C
Autoignition temperature : —	Explosion limits : —
Vapor pressure : —	Vapor density : —
Density : 0.86~0.87 g/cm ³	Water solubility : —

10. Stability & Reactivity Data

Stability Indicator: YES
Materials To Avoid: STRONG OXIDIZING AGENTS
Hazardous Polymerization Indicator: NO

11. Toxicological Information

TOLUENE	Toxic by inhalation, ingestion or by absorption through skin. Serious irritant. Experimental teratogen.
METHYL ETHYL KETONE	Severe eye irritant. Can cause CNS depression. Skin irritant. May be harmful by ingestion, inhalation or through skin contact. May cause dermatitis.
ACETONE	Harmful by inhalation, ingestion or skin absorption. Irritant. Liquid may cause permanent eye damage (corneal clouding). Contact with skin may cause defatting, leading to irritation. Long-term exposure may cause liver damage. Typical TLV 750 ppm.

Toxicity data

TOLUENE	METHYL ETHYL KETONE	METHYL ACETATE
ORL-RAT LD50 636 mg kg ⁻¹	ORL-RAT LD50 2737 mg kg	UNR-MAN LDLO 1159 mg kg ⁻¹
IPR-RAT LD50 1332 mg kg ⁻¹	IHL-RAT LC50 23500 mg/m ³ /8h	ORL-RAT LD50 5800 mg kg ⁻¹
ORL-HMN LDLO 50 mg kg ⁻¹	IPR-RAT LD50 607 mg kg ⁻¹	UHL-RAT LC50 50mg l ⁻¹
IPR-MUS LD50 59 mg kg ⁻¹	ORL-MUS LD50 4050 mg kg ⁻¹	IHL-RAT LC50 50100 mg m ⁻³ /8h
IHL-MAM LC50 30 g m ⁻³	IHL-MAM LC50 38 g m ⁻³	ORL-MUS LD50 3000 mg kg ⁻¹
	IHL-MUS LC50 32 g/m ³ /4h	IHL-MUS LC50 44 g m ⁻³ /4h

12. Ecological Information

Biological degradability :	Good
Aquatic toxicity :	Low
Bioaccumulation potential :	Low

13. Disposal Considerations

Waste Disposal Methods:
 WASTE MATERIAL SHOULD BE TREATED/DISPOSED AT AUTHORIZED WASTE SITE. CONTACT APPROP LOCAL, STATE, FED REGS BEFORE DISPOSAL.

14. Transport Information

1. DOT 49 CFR Hazard Class: 3. Label : FLAMMABLE ,LIQUID ; DOT Packaging Group: II
2. IATA/ICAO Class : 3 °
3. IMDG Class : 3 °
UN Number : 1866

15. Regulatory Information

N/A

16. Other Information

THE ATTENTION OF THE USER IS DRAWN TO THE RISKS BROUGHT UPON BY THE MISUSE OF THE PRODUCT. THIS DATA SHEET DOES NOT EXEMPT THE USER FROM KNOWING & APPLYING THE RELEVANT REGULATIONS. IT IS RESPONSIBILITY OF THE USER TO TAKE ALL PRECAUTIONS NECESSARY TO THE USE OF THE PRODUCT. THE INFORMATION CONTAINED IN THIS PUBLICATION IS GIVEN IN GOOD FAITH, AND TO THE BEST OF OUR KNOWLEDGE AT THE TIME OF EDITION.

This information was last updated on December 31, 2003. Although we have tried to make it as accurate and useful as possible,

we can take no responsibility for its use or misuse, or for the accuracy of the information.