

Foshan Fokis New Materials Co., Ltd

Material Safety Data Sheet

I. Identification of the substance / preparation and company

Product Information / Number : Spray Adhesive					
Information on Producer/Supplier Name、Addresses、Phone : Foshan Fokis New Materials Co., Ltd / No.2 industrial zone Dongcun Xingtan town Shunde district Foshan city Guangdong Province / 0757-22897531					
Emergency Phone / Fax: Tel:0757-22897531/Fax:0757-22897531					
National Consulting hotline for Chemical Accidents & Emergencies : 0532-3889090 ; 0532-3889191					
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II. Composition / Information on Ingredients

Chemical Characteristics:			
Hazardous Components Name	CAS No.	Concentration / Percentage (%)	NFPA Hazard Rating
Ethyl Acetate	141-78-6	5-10	H: 1 / F: 3 / R: 0
Cyclohexane	110-82-7	30-35	H: 1 / F: 3 / R: 0
Solvent extracted oil	8030-30-6	30-35	H: 1 / F: 3 / R: 0
Synthetic Rubber	N/A	34-36	N/A

* H: Health F: Fire R: Reactivity

III. Hazard Identification

GHS classification conclusions: Flammable liquids (Class 2), skin corrosion/irritation (Class 2), Severe eye injury/eye irritation (Class 2A), germline mutagenicity (Class 1), carcinogenicity (Class 1), Toxicity of specific target organ systems - Single exposure (Class 3, Anesthetic effects), inhalation hazards (Class 1), aquatic environment hazards - acute (Class 1), aquatic environment hazards - chronic (Class 1).

H225 highly flammable liquids and vapors;

H315 causes skin irritation;

H319 causes severe eye irritation;

H340 may cause hereditary defects;

H350 may be carcinogenic;

H336 can cause lethargy or dizziness;

H304 can be fatal if swallowed and entered the respiratory tract.

H410 is highly toxic to aquatic organisms and has long lasting effects.GHS label signal word: Danger



GHS Label pictograph:

[preventive measure]

P203 Obtain, read and follow all safety instructions before use.

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P210 Keep away from heat sources, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container airtight.

P240 containers and loading equipment are grounded and equipotential connected.

The P241 uses explosion-proof [electrical/ventilation/lighting] equipment.

P242 Use tools that do not produce sparks.

P243 Take action to prevent electrostatic discharge.

P261 Avoid inhaling dust/smoke/gas/aerosol/vapor/spray.

P264+P265 Wash hands thoroughly after work. Don't touch your eyes.

P271 can only be used outdoors or in well-ventilated areas.

P273 Avoid release into the environment.

P280 Wear protective gloves/protective clothing/protective eye mask/protective mask/hearing protection.

【Accident response】

P301+P316+P317+P318+P319+P332+P337 If swallowed by mistake, if you feel discomfort, if skin irritation occurs, if eye irritation persists, if you have been exposed or have concerns: Seek medical attention.

P303+P361+P353 If skin (or hair) is contaminated: Remove all contaminated clothing immediately. Wash the affected area with water [or shower].

P304+P340 In case of accidental inhalation: Transfer the person to fresh air and maintain a comfortable breathing position.

P305+P351+P338 If entering eyes: Rinse carefully with water for a few minutes. If contact lenses are worn and can be easily removed, remove them. Keep rinsing.

P331 should not induce vomiting.

P362+P364 Remove contaminated clothing and wash it before reuse.

P370+P378 In case of fire, use dry powder, foam or carbon dioxide extinguishing agent.

P391 Collect spills.

【Safe storage】

P403+P233+P235 are stored in a well-ventilated place. Keep container airtight. Keep it cold.

P405 storage area must be locked.

【Waste disposal】

P501 Dispose of contents/containers in accordance with relevant national/local regulations.

IV. First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.
- **Skin Contact:** Flush with large amount of water; Use soap if available. Remove grossly contaminated clothing, including shoes and laundry before re-use. Discard shoes. If irritation persists, get medical attention.
- **Eye Contact:** Immediately flush eyes with large amount of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical

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• **Ingestion:** Do not induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention.

Note to physician: For inhalation, consider oxygen. For ingestion, consider gastric lavage. Avoid carbonates, bicarbonates.

V. Fire Fighting Measure

Flash Point : 0 °C
Auto-ignition : 377 °C
Low / Upper Flammable limits : 1.3 – 8.7 %
Extinguishing Media : Use water spray, foam, dry chemical or carbon dioxide.
Fire fighting procedures: Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
Hazardous Decomposition: Thermal decomposition could produce carbon monoxide, unidentified organic compounds.

VI. Accidental Release Measures

Spill and leak procedure: Shut off ignition sources. Stop leak if you can do it without risk. For small liquid spills, take up with sand or other absorbent material. For larger spills, dike far ahead of spill for later disposal. No smoking, flares or flames in hazard area. Keep unnecessary people away.
Environmental protection : Prevent diffusion, Prevent entry into the sewage system.
For safety and environmental precautions please review entire MATERIAL SAFETY DATA SHEET, for necessary information.

VII. Handling and Storage

Handling : Ensure efficient exhaust ventilation in the working area.
Storage : Keep container tightly closed and store between 5 °C and 40 °C.

VIII. Exposure Control / Personal Protection

Exposure limits		
Component	TWA	
	OSHA	ACGIH
Ethyl Acetate	400 ppm	400 ppm
Cyclohexane	300 ppm	300 ppm
Solvent extracted oil	750 ppm	500 ppm

Personal Protection Equipment :

- **Ventilation protection :** Ensure efficient exhaust ventilation in the working area.
- **Respirator protection:** Avoid prolonged or repeated breathing of vapor or mists. If exposure may exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure.
- **Eye protection :** Wear chemical goggles.
- **Hand protection :** Impervious neoprene or rubber gloves are recommended.
- **Clothing protection :** Standard industrial hygiene procedures should be practiced.
- **Hygiene Procedures :** Observe the common precautionary measure, contaminated clothes must be changed immediately. Wash hands after work is completed.

IX. Physical and Chemical Properties / Characteristics

Appearance : Light yellow liquid
Boiling Point / Boiling Range: 79 – 81 °C

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Odor : Pungent odor
Specific Gravity : 0.85 – 0.95 (Water=1)
Solubility in Water : Insoluble.

X. Stability and Reactivity

Stability : Stable.
Conditions to Avoid : Keep away from flame.
Incompatibility : Strong alkalis and strong acids.
Hazardous Decomposition Products : Formation of combustible and noxious fumes during thermal decomposition.

XI. Toxicological Information

<ul style="list-style-type: none">• Ethyl Acetate : Irritation data : Eye-hmn : 400 ppm Toxicity data : LC50 inhalation-rat 1600 ppm/8H ; LD50 oral-rat 5620 mg/kg Target organs : Central nervous system .• Cyclohexane : Irritation data : Skin-rabbit: 1548 mg/2D-1 Toxicity data : LD50 oral-rat 12705 mg/kg Target organs : Central nervous system .• Solvent extracted oil : Irritation data : Eye-rabbit : 20 mg/24H MOD ; Skin-rabbit: 500 mg/24 H MLD Toxicity data : LC50 rat-rat 50100 mg/m3/8H ; LD50 oral-rat 5800 mg/kg Target organs : Central nervous system

XII. Ecological Information

<ul style="list-style-type: none">• Ethyl Acetate Ecotoxicity Data: Fish toxicity: 1500000 ug/L 48 hour(s) LC 50 (Mortality) Medaka, high-eyes (Oryzias latipes). Invertebrate toxicity: 6000 mg/L 24 hour(s) EC 100 (Abundance) Water flea (Daphnia magna) Algal toxicity : >1000000 ug/L 48 hour(s) (Population Growth) Green algae (Scenedesmus pannonicus).• Cyclohexane Ecotoxicity Data: Fish toxicity: 4530 ug/L 96 hour(s) LC 50 (Mortality) Fathead minnow (Pimephales promelas) Invertebrate toxicity: 1420000 ug/L 96 hour(s) LC 50(Mortality) Marine bivalve (Katelysia opima) Algal toxicity : >160000 ug/L 48 hour(s) (Population Growth) Cryptomonad (Chilomonas paramecium).• Solvent extracted oil Ecotoxicity Data: Fish toxicity: 4 ug/L 96 hour(s) LC 50 (Mortality) Harlequinfish, red rasbora (Rasbora heteromorpha) Invertebrate toxicity: 35 ug/L 48 hour(s) EC 50 (Immobilization) Water flea (Daphnia pulex) Algal toxicity : <14 ug/L 11-14 hour(s) MATC (Growth) Red algae (Champiaparvula) Environmental Summary: Highly toxic to aquatic life.
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XIII. Disposal Information

Waste disposal methods : Waste disposal should be in accordance with existing federal, state and local environmental regulations.
Empty containers warnings : Empty containers may contain product residue; follow MSDS and label warnings even after they have been emptied.

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XIV. Transport Information

Dot Shipping Name	UN Number	Dot Hazard Class	PCK GRP
Inflammable Liquid	1133	3	II

XV. Regulation Information

- TSCA: All components are on the TSCA inventory.
- EC Risk and Safety Phrases:
 - R11 : Highly flammable.
 - R36 : Irritating to eyes.
 - R38 : Irritating to skins.
 - R65: May cause lung damage if swallowed.
 - R66 : Repeated exposure may cause skin dryness or cracking.
 - R67 : Vapours may cause drowsiness and dizziness.
 - S09 : Keep container in a well ventilated place.
 - S16 : Keep away from sources of ignition-No smoking.
 - S25 : Avoid contact with skin and eyes.
 - S33 : Take precautionary measures against static discharges.
 - S43 : In case of fire use sand, earth, chemical powder or alcohol type foam.

XVI. Other Information

The information given and the recommendations made herein apply to our products alone and not combined with other products. Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. In addition, the product will have different effect according to the purpose, material, and condition, Therefore, please have a test to assure the effect before formally use it.

Sources of information :

Reference document

Safely and Fine Protection Manual on Dangerous Goods

Publish by chemical industry publishing house.1994

Solvent handbook Publish by chemical industry publishing house,1994

Fire control law of the P.R.C

Harmful chemical safeguard handbook

Industrial Disease Prevention Law of the P.R.C

Environment protection law of the P.R.C