MATERIAL SAFETY DATA SHEET

Pattex Contact Adhesive Premium

COMPANY DETAILS

PRODUCT NAME : Premium Contact Adhesive
PRODUCT TYPE : SOLVENT CONTACT BASED ADHESIVE
MADE IN : UNITED ARAB EMIRATES
MANUFACTURED BY : XCHEM INTERNATIONAL LLC
INDUSTRIAL PLOT # WIZ -08 (23, 25)
RAKIA – RAS AL KHAIMAH
UNITED ARAB EMIRATES

HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

Can cause eye irritation.
Can cause skin irritation.
Moderate respiratory tract irritant.
Harmful if swallowed.

COMPANY DETAILS

HMIS RATING:

□ HEALTH – 2
□ FLAMMABILITY – 4
□ REACTIVITY -- 0

HEALTH EFFECTS BY ROUTE OF ENTRY

EYE:
Can cause irritation.

SKIN:
Can cause skin irritation.

INHALATION:
Can cause moderate respiratory irritation. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Inhalation of vapours may cause loss of feeling and weakness in the hands and feet and loss of manual dexterity. Inhalation of high concentrations may result in central nervous system (CNS) effects such as dizziness, weakness, fatigue, nausea, headache, and lack of coordination.

INGESTION:
Ingestion is not an anticipated route of exposure. Harmful if swallowed. Irritating to mouth, throat, and stomach.

COMPOSITION / INGREDIENTS INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rubber</td>
<td>184963-09-05</td>
</tr>
<tr>
<td>Resin</td>
<td>64742-16-1</td>
</tr>
<tr>
<td>n - Hexane</td>
<td>110-53-3</td>
</tr>
<tr>
<td>Solvents</td>
<td>1330-20-7</td>
</tr>
</tbody>
</table>

FIRST AID MEASURES

Inhalation: If inhaled, immediately take the affected person to fresh air. Give sufficient oxygen. If not breathing, give artificial respiration. Get medical attention, if symptoms develop.

Skin contact: Rinse with running water and soap. Remove all contaminated clothing.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water, and seek immediate medical attention.

Ingestion: Do not induce vomiting, seek medical advice immediately.
MATERIAL SAFETY DATA SHEET

FIRE FIGHTING MEASURES

Auto ignition temperature: Not available
Flammable/Explosive limits - lower: Not Available
Flammable/Explosive limits - upper: Not Available
Extinguishing media: Use water spray, foam, dry chemical or carbon dioxide.
Special fire fighting procedures: Person exposed to combustion should wear self-contained breathing apparatus and full protective equipment.
Unusual fire or explosion hazards: Closed containers may explode when exposed to extreme heat. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along floor to an ignition source.

HANDLING AND STORAGE

Handling
Avoid contact with skin and eyes.
Application, processing: Provide good ventilation or extraction.
Keep away from heat, sparks and flame
Wash thoroughly after handling
Keep the container closed
Do not cut or weld on or near this container

Storage
Store in a cool, dry & ventilated location. Keep away from heat, sparks, flame and other Source of ignition. Keep container closed

ACCIDENTAL RELEASE MEASURES

Special Protection:
Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment. Additional precautions may be necessary based on special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

Clean up
Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

EXPOSURE CONTROL AND PERSONNEL SAFETY

Eye protection
Wear safety glasses when handling this product.

Skin Protection
Avoid skin contact by wearing chemically resistant gloves. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.

Gloves
Nitrile

Respiratory Protection
Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

Ventilation
Use local exhaust ventilation or other engineering controls to minimize exposures.
MATERIAL SAFETY DATA SHEET

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH Exposure Limit</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Hexane</td>
<td>50 ppm TWA</td>
<td>500 ppm TWA, 1800 mg/ m3 TWA</td>
</tr>
<tr>
<td>Solvents</td>
<td>54 ppm TWA</td>
<td>635 ppm TWA, NA</td>
</tr>
</tbody>
</table>

PHYSICAL AND CHEMICAL DATA

Physical State

- Form: Liquid
- Colour: Yellow Colour
- Odour: Solvent
- Odour Threshold: NA
- Specific Gravity: .86+/- .01 g/ltr
- Solid (%): 25+/-2

Information on basic physical and chemical properties

- pH: NA
- Melting point/range: NA
- Boiling point/range: NA
- Flash point: Below 0
- Ignition temperature: NA

STABILITY AND REACTIVITY

- Stability: Stable under normal conditions.
- Chemical Incompatibility: Strong oxidizing agents
- Hazardous Polymerization: Will not occur.
- Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, chlorine containing gases

TOXOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>LD 50 / LC 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexane</td>
<td>Oral LD 50, Rat = 28710 mg/ kg</td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50, Rat = 48000 ppm</td>
</tr>
<tr>
<td>Other Components</td>
<td>NA</td>
</tr>
</tbody>
</table>

ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Physico-chemical removability

DISPOSAL INFORMATION

As per local municipal law or any other concerned authority.
TRANSPORTATION INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

International Air Transportation (ICAO/IATA)
Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

Water Transportation (IMO/IMDG)
Proper shipping name: Adhesive
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

OTHER INFORMATION

The information given is based on our knowledge and performance of the material. This data is intended to enable safety assessment to be made and should not be construed as guaranteeing specific properties. Users are recommended to consult our technical team or technical data to advise specific applications.

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