

Material Safety Data Sheet

Revision: December. 2010

Product Name: GnomePen

1) Chemical Product and Company Identification

Identification of the product: GnomePen

Chemical Family: Polychloroprene adhesive

Identification and information of the company:

Invignome

Dr. Zeev Barvish

Fax: 972-8-6450680

Website: www.invignome.com ; Email: sales@invignome.com

P.O. Box 3063, Beer Sheva. ZipCode 84130, Israel.

2) Composition / Information on ingredients:

Product Description: A basic yellow colored liquid.

Chemical characterization (preparation)

Preparation with polychloroprenes

Data on components:

Material	%	C.A.S No.	UN #
Toluene	50-40	00108-88-3	1294
Polychloroprene	15-25	09010-98-4	
Petroleum distillates	35-30	64742-49-0	1203
Phenol Resin	10-15	25085-50-1	
Waxes	1-10		
Dyes	1-5		

3) Hazards Identification

Classification



Highly Flammable



Harmful

Xn

R 11 Highly Flammable

R 36 Irritating to the eyes

R 65 Harmful: May cause lung damage if swallowed

R 67 Vapors may cause drowsiness and dizziness

4) First Aid Measures

General information: Take off immediately all contaminated clothing; remove the affected victim from exposure

After inhalation: Provide fresh air. Call for prompt medical attention. Using proper respiratory protection, immediately. Administer respiration if breathing is stopped. Keep at rest

After skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin irritation, seek medical treatment.

After eye contact: Flush with large amounts of water for 10 to 15 minutes holding eyelids apart. If irritation persists, get medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

5) Fire Fighting Measures

Suitable extinguishing media:
In case of fire use carbon dioxide, sand or extinguishing powder. Never use water.

Fire Fighting Procedures:

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off “fuel” to fire. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak.

Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

Special Fire Precautions:

Avoid spraying water directly into storage containers due to danger of boilover.

See also, Section 4 “First Aid Measures” as well as Section 10 “Stability and Reactivity”

Hazardous Combustion Products:

No unusual.

6) Accidental Release Measures:

Land Spill:

Eliminate sources of ignition. Warn occupants of downwind areas of fire and explosion hazard.

Prevent liquid from entering sewers, watercourses, or low areas.

Keep public away. Shut off source if possible to do so without hazard. Advise the authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimize the effect on the ground water.

Contain spilled liquid with sand or earth.

Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. If liquid is too viscous for pumping, scrape up with shovels or pails and place in suitable containers for recycle or disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

See Section 4 "First Aid Measures" as well as Section 10 "Stability and Reactivity".

Water Spill:

Eliminate sources of ignition. Warn occupants and shipping in downwind areas of fire and explosion hazard and request them to stay clear.

Notify port or relevant authority and keep public away. Shut off source if possible to do so without hazard. Confine if possible.

Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non-confined waters.

Consult an expert on disposal of any recovered material and ensure conformity to local disposal regulations.

See also Section 4 "First Aid Measures" and Section 10 "Stability and Reactivity".

7) Handling and Storage:

Handling:

Information for safe handling: provide good ventilation and/or exhaust system in the work area.

Avoid the formation of aerosol.

Storage:

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release.

Store in a cool, well ventilated place away from incompatible materials.

Do not handle, store, or open near an open flame, sources of heat, or sources of ignition.

Protect material from direct sunlight.

Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.

DO NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue and solvent gasses, do not expose them to open flame.

DO NOT reuse empty containers without commercial cleaning or reconditioning.

8) Exposure Controls/Personal Protection

Workplace Exposure Limits:

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be stored and handled in a lab hood. Provide mechanical ventilation of confined spaces. See respiratory protection recommendations.
Use explosion-proof ventilation equipment when using large volumes of the product.

Threshold Limit Value-TLV

This product contains Toluene. The ACGIH recommends a TWA of 50 ppm (147 mg/m³) for Toluene Personal Protection:

For open systems where contact is likely, wear safety glasses with side shields, long sleeves and chemical resistant gloves.

Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate. Approved-respirators may be necessary to prevent overexposure by inhalation.

For laboratory use, use the product in a chemical fume hood.

9) Physical and Chemical Properties

These are indicative values only. Please refer also to the product specification sheet.

Physical State: Liquid

Form/Color: Yellowish

Odor: Aromatic

Boiling Point Range 56 DegC

Flash Point (TCC) -20 DegC

Autoflammability Not self-igniting

Ignition Temperature 200 (Din 51794) DegC

Explosive properties The product is not explosive.

Fumes form explosive mixtures
with air.

Vapor-Pressure (20 DegC) 247 hPa

Density (15 DegC) 0.866 G/cc

Solubility in water (20.00
DegC)

<0.10 Wt%

Is Material Hygroscopic? No.

Viscosity (25 DegC) 1500-2000 cps or so.

Evaporation Rate (n-Bu Acetate =1): 3.10

Percent of solids: 25.5 %

10) Stability and Reactivity

Hazardous Polymerization: No
Conditions to Avoid Polymerization: Not applicable
Stability: Stable
Conditions to Avoid Instability: Not applicable
Materials and Conditions to Avoid (Incompatibility):
Strong oxidizing agents

Hazardous Decomposition Products: None

11) Toxicological Information:

Acute:

Inhalation:

Vapor concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system affects.

Skin Contact:

Low order of toxicity.

Frequent or prolonged contact may defeat and dry the skin, leading to discomfort and dermatitis.

Eye Contact:

Will cause eye discomfort, but will not injure eye tissue.

Ingestion:

Small amount of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema.

Minimal toxicity. Additional information is available on special request.

12) Ecological Information

Ecotoxicological effects:

Aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Additional ecological information:

Do not allow to enter ground soil, sewage or drains.

13) Disposal Considerations

The following advice only applies to the product as supplied. Combination with other materials may well indicate another route of disposal.

Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

Care should in any case be taken to ensure compliance with EC, national and local regulations.

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers.

Dispose not together with household waste.

14) Transport Information:

Land (railroad/road, such as RID/ADR)

ADR/RID Class, Item: Class 3, Code: F1

Description of goods: UN 1133, adhesives

Substance in Number: 1133

Danger Label: 3

Packaging group: III

Sea (IMDG)

UN Number: 1133

Proper shipping name: Adhesives, containing flammable liquid contain acetone and methyle acetate

IMO Class: 3

IMDG Code: Class 3

EmS Number: F-E, S-D

Marine Pollutant: No

Packaging Group: III

Risk Label: 3

15) Regulatory Information:

Classification and labeling according to EEC Directives

Classification/symbol: Highly Flammable/F

Classification/symbol: Harmful/Xn

R phrases R 11 highly flammable

R 36 Irritating to eyes

R 65 Harmful: may cause lung damage

R 67 Vapors may cause drowsiness and dizziness

Safety Advice S (2) Keep out of reach of children

S 9 Keep container in a well-ventilated place

S 16 Keep away from sources of ignition – no Smoking

S 25 Avoid contact with eyes

S 23 Do not breathe vapor

S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S29 Do not empty into drains

16) Other information

This information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of Invignome's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.