



**S-Ion Lanka (Pvt) Ltd**

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**Material Safety Data Sheet – S-Ion Solvent Cement**

**1.0 IDENTIFICATION OF THE MATERIAL AND MANUFACTURER**

MANUFACTURER

S-Ion Lanka (Pvt) Ltd  
No.135, Ratamedapara, Singakkuliya, Sadalankawa.  
Tel: +94 37 4699100

PRODUCT

Product Name: S-Ion PVC-U Pipe Cement  
Other Names: ADHESIVES containing flammable liquid  
Manufacturer's Code: 101/102

USE

For bonding PVC-U pipes and fittings in non-pressure applications. Apply by brush.

**2.0 HAZARDS IDENTIFICATION**

HAZARD CLASSIFICATION

NOHSC Classification: Hazardous Substance  
SUSDP Classification: Schedule 5 poison

HAZARD STATEMENTS

H225 -: Highly Flammable liquid and vapours.  
H303 -: May be harmful if swallowed.  
H333 -: May be harmful if inhaled  
H316 -: Causes mild skin irritation  
H320 -: Causes eye irritation  
H336 -: May cause drowsiness or dizziness.  
H305 -: May be harmful if swallowed and enters airways

GHS LABEL ELEMENTS



GHS02



GHS05



GHS07



GHS08

SAFETY PHRASES

P210-: Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P233 -: Keep container tightly closed



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- P240 -: Ground /bound container and receiving equipment
- P241-: Use explosion – proof electrical / ventilating / lighting equipment
- P242 -: Use only non – sparking tool.
- P243 -:Take precautionary measures against static discharge
- P261 -: Avoid breathing dust/ fume/gas/mist/spray/vapour
- P264 -: Wash hands thoroughly after handling
- P271-: Use only outdoors or in a well-ventilated area
- P280-:Wear protective gloves/protective clothing/eye protection/face protection

**3.0 COMPOSITION / INFORMATION ON INGREDIENTS**

<u>CHEMICAL ENTILITY</u>	<u>CAS NO.</u>	<u>APPROX %</u>
Polyvinyl Chloride polymer	-	-
1-Cyclohexanone	[108-94-1]	25 – 70 %
3-Butanone	[78-93-3]	1 – 15 %
1 - Acetone	[109-99-9]	0 – 10 %

**4.0 FIRST AID MEASURES**

**FIRST AID**

Swallowed: For advice, call a Poisons Information Centre or a doctor at once. Do NOT induce vomiting. If spontaneous vomiting occurs, keep head below the hips to prevent aspiration into lungs.

Eyes: Can stick eyelids together. If in eye, irrigate immediately with copious amounts of water for 15 minutes with eyelids held open. Seek medical advice immediately.

Skin: Wash affected areas with soap and copious quantities of water immediately. Remove contaminated clothing and footwear. Decontaminate footwear and wash clothing before reuse. Seek medical advice if skin irritation develops.

Inhaled: Remove victim to fresh air. Seek medical advice immediately if adverse symptoms such as respiratory irritation,



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dizziness or unconsciousness develop. If breathing has stopped apply artificial respiration.

First Aid Facilities: Have eyewashes and safety showers available where contact can occur.

ADVICE TO DOCTOR Treat symptomatically. Look for signs of aspiration into lungs. The substance may cause chemical pneumonitis.

**5.0 FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA Water fog, foam, dry chemical, carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS Smoke, carbon monoxide, carbon dioxide, chlorine gas, hydrogen chloride and other noxious fumes.

PRECAUTIONS FOR FIRE FIGHTERS Keep containers cool with water spray to prevent rupture of container. Wear full protective equipment including self-contained breathing apparatus. Vapour accumulation could flash and or explode even if ignited from a distance.

HAZCHEM CODE 3 [Y]E

**6.0 ACCIDENTAL RELEASE MEASURES**

EMERGENCY PROCEDURES This product is a highly flammable liquid. Isolate hazard area and deny entry to unauthorized personnel. Remove all sources of ignition. Stop leak if it can be done without personal risk. Avoid breathing vapours. Ventilate enclosed area.

CLEAN UP PROCEDURE Small Spills: Wear safety goggles or face shield and butyl rubber gloves and wipe up spill with paper or rags. Allow product to dry outdoors or in a well-ventilated area and dispose as general industrial waste. Large spills: Notify fire brigade. Wearing full personal protective equipment,



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including self-contained breathing apparatus, contain spill with sand, earth or Vermiculite. Prevent run-off into drains or waterways. Bail or pump any free liquid into sealable metal containers. Collect absorbed material and also place it in into sealable metal drums. Seal containers and label them in accordance with the Hazardous Substances Labelling Code.

**7.0 HANDLING AND STORAGE**

**PRECAUTION FOR SAFE HANDLING**

Practice sound industrial hygiene. Wear butyl rubber gloves, safety glasses with side shields and clothing that will minimize skin contact. Wash hands before work breaks. Remove contaminated clothing and protective equipment before entering eating areas. Keep away from ignition sources and guard against static electricity discharges. Avoid run-off into drains or watercourses.

**STORAGE**

Store in a cool dry place and out of direct sunlight. Store in a manner that will minimize fire risks. Guard against static electricity accumulation discharge  
or  
Store in a banded area, and if in excess of the regulatory quantity, in a flammable goods store. Do not store with oxidizing agents.

**8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE**

An exposure limit for this product has not been set.

Suggested Exposure standard TWA 25 ppm

**BIOLOGICAL LIMIT VALUES**

Suggested Biological limits = 2 mg/L. (ACGIH)

**ENGINEERING CONTROLS**

Use only in well ventilated areas and with local exhaust ventilation. Maintain air concentrations below exposure standards.

**PERSONAL PROTECTION EQUIPMENT**

Under condition of ordinary use, wear safety glasses with side shields, butyl rubber gloves long sleeved overalls and sturdy work boots. In case of a large spills or when working in confined areas, use a full-face respirator fitted with suitable organic vapour canister (for



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selection guidance see AS 17150), impervious long sleeved overalls, long sleeved butyl rubber gloves and butyl rubber gumboots.

**9.0 PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL DESCRIPTION**  
**PROPERTIES**

**Appearance:** A clear, slightly viscous liquid  
**Odour:** Characteristic ketonic odour  
**pH:** Not applicable  
**Vapour Pressure:** Not established for this product.  
**Vapour Density:** >1 (Air=1)  
**Boiling Point:** Not established for this product.  
**Melting Point:** Not established for this product.  
**Solubility in Water:** Partially miscible  
**Specific Gravity:** ca. 0.98  
**Flash Point:** Not established for this product, around 40 °C  
**Ignition temperature:** Not established for this product, around 430 °C.

**OTHER PROPERTIES**

No data.

**10.0 STABILITY AND REACTIVITY**

**CHEMICAL**  
**STABILITY**

This material is stable under normal ambient and anticipated storage and handling conditions.

**CONDITIONS**  
**TO AVOID**

Avoid excessive temperatures, ignition sources and contact with incompatible materials.

**INCOMPATIBLE**  
**MATERIALS**


Strong mineral acids, hydrogen peroxides, strong alkalis, oxidizing agents, and chloroform.

**HAZARDOUS**  
**DECOMPOSITION**  
**PRODUCTS**

Thermal decomposition will produce hydrogen chloride.

**HAZARDOUS**  
**REACTIONS**

Hazardous polymerization will not occur.

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## **10. TOXICOLOGICAL INFORMATION**

This mixture has not been tested as a whole for its health effects. The toxicology data and health effects given below are those of the major components, of this preparation.

**ACUTE HEALTH EFFECTS** Swallowed: Ingestion may cause headaches, nausea, vomiting and adverse effects to the central nervous system. Large doses may result in coma and death. Toxicity by this route is expected to be low. LD<sub>50</sub> (rat) is around 1600 mg/kg.


Eyes: Strong eye irritant. Can stick eyelids together. May cause reddening of the eye and lachrymation. May produce transient corneal damage.

Skin: Moderate skin irritant. May cause some reddening, drying and rough chapped skin. Can be absorbed through the skin. LD<sub>50</sub> (rabbit) is around 1000 mg/kg.

Inhaled: Irritant to the respiratory system. Inhalation of high vapour or mist concentrations may lead to dizziness, nausea and loss of consciousness and continued inhalation may lead to death. LC<sub>50</sub> (rat) is around 20 mg/L/4h.

**CHRONIC HEALTH EFFECTS** Prolonged or repeated skin contact may defat the skin and could lead to irritant contact dermatitis. Liver and kidney damage have been reported for test animals, particularly at high exposure levels. Animal studies suggest that it may potentiate the toxic action of some other compounds such as n-hexane. None of the ingredients in this mixture is a sensitizer, mutagenic or carcinogenic.

**DELAYED EFFECTS** Liver and kidney damage as well as blood and bone marrow effects have been observed in test animals exposed to cyclohexanone.

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## **11. ECOLOGICAL INFORMATION**

**ECOTOXICITY** Based on the data of the major raw materials used in this product, this mixture may be toxic to aquatic organisms.

**PERSISTENCE AND DEGRADABILITY** The solvents used in this mixture are readily biodegradable. PVC resin - is biologically not degradable. Ketones-Reduction: DOC >70%, BOD >60%; BODs to COD >50%.

**MOBILITY** No bioaccumulation is to be expected.


## **12. DISPOSAL CONSIDERATIONS**

This product is a hazardous waste and may only be disposed of in accordance with applicable local regulations. These regulations vary from jurisdiction to jurisdiction and hence the user is advised to seek advice from the local authority before considering disposal. The disposal information given below is a general guide and does not replace the requirement of the local regulations.

**DISPOSAL** If possible recycle, otherwise incinerate in a suitable facility. Empty containers should be drained thoroughly and then vented in a safe place away from heat or ignition sources. Send drums to a drum washing and recycling facility.

**SPECIAL PRECAUTIONS** Do not puncture, cut or weld a drum that has not been cleaned - it is an explosion hazard. The empty, uncleaned drums still fall under the auspices of the ADG Code and must be transported accordingly.

When large amounts of this product need to be disposed of, the services of a registered, professional waste disposal organization is highly recommended.

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### **13. TRANSPORT INFORMATION**

This product has been classified as Dangerous Goods. It must be transported in accordance with the ADG Code requirements.

**UN Number:** 1133

**Proper Shipping Name:** ADHESIVES  
containing flammable liquid

**ADG Class:** 3

**ADG Subsidiary Risk:** None allocated

**ADG Packaging Group:** II

**Hazchem Code:** 3 [V] E

**IMDG/IMO Code:** Same classification as  
ADG Code

**ICAO/IATA Code:** Same classification as  
ADG Code

### **14. REGULATORY INFORMATION**

This product is a Schedule 5 poison.

### **15. OTHER INFORMATION**

#### **ACRONYMS**

CAS Number: Chemical Abstracts Service Registry Number

DG: Dangerous Goods

Hazchem Code: An emergency action code of numbers and letters, which gives information to emergency services.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

N.O.S.: Not otherwise specified.

NOHSC: National Health and Safety Commission.

R-Phrases: Risk Phrases.

S-Phrases: Safety Phrases.

SUDP: Standard for the Uniform Scheduling of Drugs and Poisons.

UN Number: United Nations Number

The health and safety information contained in this MSDS is believed to be true and correct. However because S-Ion Lanka Pvt Ltd does control over the method of use of this product, all statements or suggestions are made without warranty, expressed or implied, regarding the reliability of the information, or the hazards resulting from the use of the material. Every user should consider the information given in this MSDS in the context of how this product will be used in the user's work place, including the effects of other products on the premises.