

Richard Foot Pty Ltd

MATERIAL SAFETY DATA SHEET

PRODUCT: RF ELECTRONIC CLEANING SOLVENT NO.1 (LIQUID)

PRODUCTION IDENTIFICATION

Trade Name: Hexanes
Other Name: Isohexane

UN No: 1208
Dangerous Goods Class: 3
Subsidiary Risk: None Allocated
Hazchem Code: 3[Y]E
Packaging Group: II
EPG: 14
Poisons Schedule: 5

Manufacturers Code: Various

Hazardous according to criteria of Worksafe Australia

Use

A clear colourless liquid, immiscible with water, for cleaning electronic connectors, printed circuit boards etc.

Packaged in 1, 2, 5 and 20 litre containers

Physical Description/Properties

Appearance: Clear almost colourless liquid with benzene-like odour.

Boiling Point: 54-61 Deg C

Melting Point: <-50 Deg C

Vapour Pressure: N/A

Specific Gravity: N/A (water = 1)

Flash Point: Closed Cup <-21

pH: N/A

Solubility in water: 0.02 g/l (25 deg C)

Flammability Limits: (as percentage volume in air)

Lower Explosion Limit: 0.8

Auto ignition Temperature: 260 Deg C

Distillation range: 53-63 Deg C @ 1013 hPa

Vapour Pressure: 240 hPa @ 20 Deg C

Evaporation rate: 1.8 (ethyl-ether=1)

Density: 0.67 g/cc @ 15 Deg C

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Ingredients

Chemical Entity	CAS NO.	Proportions %
Naphthanic Hydrocarbons C5-C6	[64742-49-01]	96.8
N-Hexane	[100-54-3]	3.2

HEALTH HAZARD INFORMATION

Health Effects

Acute:

Swallowed: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. May cause feeling of sickness, coughing and a shortness of breath.

Eye: May cause irritant effects, redness and pain.

Skin: The product defats and dries the skin. May cause redness.

Inhaled: High vapour concentrations are irritating to the eyes and the respiratory tract. May cause coughing and dizziness.

Chronic:

No information available.

First Aid

Swallowed: Do not induce vomiting. Keep at rest. Get prompt medical attention. In case of vomiting, danger of entering the lungs (may damage the lungs).

Eye: Flush eyes with large amounts of water for several minutes. Then consult a doctor.

Skin: Wash off with soap and water. Remove grossly contaminated clothing, including shoes, and launder before reuse.

Inhaled: Move to fresh air, keep patient warm and at rest. Call doctor if loss of consciousness and if breathing stops give artificial respiration.

Advice to Doctor: Treat symptomatically.

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PRECAUTIONS FOR USE

Exposure Standards

Hexane: TWA – 500 ppm, 1760 mg/m³. STEL – 1000 ppm, 3500 mg/m³.

Engineering Controls

Ensure adequate ventilation to keep airborne concentrations below exposure standard.

Personal Protection

Where concentrations in air may exceed the exposure standard and means of exposure reduction are not adequate, approved respirators may be necessary to prevent overexposure by inhalation. Eye: For open systems where contact is likely, wear safety glasses with side shields. Skin: Wear chemical resistant gloves, PVA and nitrile rubber are suitable, and standard work clothes.

Flammability

Highly flammable. Liquid releases vapour that form flammable and explosive mixtures to temperature at or above the flashpoint (<-21 Deg C). Product can accumulate static charges which can cause incendiary electrical discharge.

SAFETY HANDLING INFORMATION

Storage/Transport

In view of electrostatic accumulation hazard, use proper grounding procedure. Use only in explosion proof area. Ensure good interior ventilation, especially at floor level. Keep sources of ignition away – do not smoke. Store in a cool place, away from sources of heat. Heat will increase pressure and may lead to container explosion. Keep away from strong oxidizing agents.
Storage temperature: Cool, not in direct sunlight.

Packaging/Labeling

UN NO.1208
Class 3
Sub Risk None Allocated
Hazchem Code 3[Y]E
Pack Group II
EPG No. 14
Shipping Name Hexanes
Hazard Extremely Flammable Harmful

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Risk Phrases

R11 Highly flammable.

R65 Harmful: may cause lung damage if swallowed.

Safety Phrases

S9 Keep container in a well ventilated place

S16 Keep away from sources of ignition - No smoking.

S23:ISOHEX Do not breath gas/fumes/vapour/spray.

S33 Take precautionary measures against static discharge

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Spills and Disposal

Clean up personnel should wear full protective clothing including respiratory protection if airborne concentrations exceed exposure standard. Extinguish any naked flames, avoid sparks, and do not smoke. Evacuate personnel from the area. Avoid inhaling vapour. Shut off source is possible. Prevent spilled material from entering sewers, watercourses, or low areas. Inform local authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Take measures to minimize the effect on the groundwater.

Contain spilled liquid with sand or earth. Recover by pumping (use an explosion proof pump) or with a suitable absorbent and place in suitable containers.

Disposal

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

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FIRE AND EXPLOSION HAZARD

Fire/Explosion

Extreme fire hazard. Leaks of vapour or spills of liquid can readily form flammable mixture at temperatures at or above the flash point. Shut off fuel to fire. If leak or spill has not ignited, use water spray to disperse the vapour. Either allow fire to burn under controlled conditions or extinguish. Avoid spraying water directly into storage containers due to danger of boil over. Do not use full water jet.

Extinguishing Media

Fire fighters should wear full protective clothing including self contained breathing apparatus. Use AFFF, alcohol resistant foam or dry chemical power (halogens) as an extinguishing media.

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