

# MATERIAL SAFETY DATA SHEET

## AUSTRALIA:

Hammersley Products (Aust) Pty Ltd ACN 001 621 281  
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Hazardous according to the criteria of Worksafe Australia.

## I IDENTIFICATION

Product Name: **NS13**

Other Names: Proper Shipping Name is TOXIC LIQUID, ORGANIC, N.O.S.

Product Code: None.

UN No: 2810 Hazchem Code: 2X

Dangerous Goods Class: 6.1 Toxic Substances.

Sub Risk Class: None allocated.

Packaging Group: III - Most EPGs may now be substituted by the Initial Emergency Response Guide, available from Standards Australia.

Poison Schedule: S6

Chemical Family: Blend of ingredients (see below).

Uses: Cleaning solvent.

## Physical Appearance & Properties

Appearance & Odour: Clear, colourless solvent solution. Sweet, pungent odour of chlorinated hydrocarbon.

Melting/softening point: No specific data. Liquid at normal temperatures.

Boiling point and vapour pressure:  
Boils in a range above about 40°C

Volatile materials: Completely volatile at 100°C.

Flashpoint: >86°C

Specific gravity: 1.10

Solubility in water: Insoluble.

Corrosiveness: Not corrosive.

## Ingredients

<b>Chemical Entity</b>	<b>CAS No</b>	<b>Proportion, %</b>	<b>TWA, mg/m<sup>3</sup></b>	<b>Worksafe Exposure Limits STEL, mg/m<sup>3</sup></b>
Trichloroethylene	79-01-6	20-30	1080	
Tetrachloroethylene	127-18-4	10-20	340	1020
Dichloromethane	75-09-2	10-20	174	not set
Petroleum distillate	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

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## II HEALTH HAZARD DATA

### Health Effects:

The Dichloromethane and Tetrachloroethylene in this product were Classified by Worksafe in 1995 as Class 3 Carcinogens. This class includes those substances which have possible carcinogenic effects on humans but in respect of which the available information is not adequate for making a satisfactory assessment. There is some evidence from appropriate animal or epidemiological studies, but this is insufficient to place the substance in Category 2.

### Acute Effects:

Swallowed: Data suggests that this product is toxic if swallowed. Ingestion of small quantities may cause harm and larger quantities may lead to death.

Eye: Data suggests that this product should present no significant problems to typical persons if used as intended.

Skin: Data suggests that this product may be absorbed through the skin and be harmful by skin absorption. Major skin exposure may lead to health problems.

Inhalation: Data suggests that this product is harmful if inhaled. Minor or short term exposure may lead to short term health problems, although long term exposure may lead to permanent health problems.

### First Aid:

Safety deluge showers should be provided where this product is being used.

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia.

If swallowed, do NOT induce vomiting. Give a glass of water. Avoid giving milk or oils or alcohol.

Eyes: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Skin: If product gets on skin, immediately remove contaminated clothing and wash skin thoroughly with soap and water to remove material. If you begin to feel unwell, seek medical attention.

Inhalation: If vapours or mists have been inhaled, and irritation or unusual symptoms have developed, remove to fresh air and observe until recovered. Apply artificial respiration if not breathing. If irritation or symptoms persists more than about 30 minutes, seek medical advice.

Advice to Doctor: Treat symptomatically. Note the nature of this product.

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## III PRECAUTIONS FOR USE

Risk Phrases are: R25, R40, R45, R14/15. Toxic if swallowed. Possible risk of irreversible effects. May cause cancer. Harmful by inhalation and in contact with skin.

### Exposure Standards:

A time weighted average (TWA) has been established for Trichloroethylene, present in significant quantities in this product. This value is 270mg/m<sup>3</sup>. The corresponding STEL level is 1080mg/m<sup>3</sup>. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. See ingredients section on page 1 of this data sheet.

### Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

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## Personal Protection:

- Respiratory Protection: If there is a significant chance of vapours or mists accumulating in the area where this product is being used, a mask or respirator should be used. For help in selecting suitable equipment, consult AS/NZS 1715.
- Protective Gloves: Impermeable protective gloves should be worn when you are using this product, since absorption through the skin is harmful. Glove selection can be made on the basis of the following resistance for Trichloroethylene based products. Neoprene: good. Rubber: fair. Nitrile: good. Butyl: poor. For help in selecting suitable equipment, consult AS 2161.
- Eye Protection: Protective eyewear is not normally necessary when using this product. However, it is always prudent to use protective eyewear. Consult AS1336 and AS/NZS 1337 for advice on Industrial Eye Protection.
- Clothing: Clean impermeable overalls or protective clothing should always be worn when handling this product, preferably with an apron. If contaminated, laundry should be advised of the nature of the contamination, or, preferably, clothing should be destroyed. Consult AS2919 for advice on Industrial Clothing.
- Safety Boots: Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.
- Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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## IV SAFE HANDLING INFORMATION

Safety Phrases are: S20, S38, S53, S24/25, S36/37. When using, do not eat or drink. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

## Storage & Transport

This product is classed as UN2810, Dangerous Goods Class 6.1 Toxic Substances. Proper Shipping name is TOXIC LIQUID, ORGANIC, N.O.S. Class 6 Toxic Substances shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids where the Flammable Liquid is nitromethane), 5.1 (Oxidising Agents where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides where the Toxic Substances are Fire Risk Substances), 8 (Corrosive Substances where the Toxic Substances are cyanides and the Corrosives are acids), Foodstuffs and foodstuff empties. They may however be loaded in the same vehicle or packed in the same freight container with Classes, 2.1 (Flammable Gases), 2.2 (Non-Flammable, Non-Toxic Gases), 2.3 (Toxic Gases), 3 (Flammable liquids, except where the flammable liquid is nitromethane), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents except where the Toxic Substances are Fire Risk Substances), 5.2 (Organic Peroxides except where the Toxic Substances are Fire Risk Substances), 7 (Radioactive Substances), 8 (Corrosive Substances except where the Toxic Substances are cyanides and the Corrosives are acids), 9 (Miscellaneous Dangerous Goods)

This product is a S6 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

## Spills & Disposals

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective chemically resistant clothing including face mask, face shield, gauntlets and self contained breathing apparatus. See above under Personal Protection regarding Australian Standards relating to personal protective equipment. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible.

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After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

### Fire & Explosion Hazard

There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Flashpoint: >86°C

Flammability limits: Not applicable. This product is not flammable.

Extinguishing Media: Carbon dioxide, dry chemical, foam, water fog. Water fog or fine spray is the preferred medium for large fires.

Special Fire Fighting procedures:

If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and self contained breathing apparatus. All skin areas should be covered. Ensure that no spillage enters drains or water courses.

Unusual Fire & Explosion Hazards:

Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation: This product is unlikely to spontaneously polymerise.

Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Hydrogen chloride gas, chlorides, and in some circumstances, phosgene which is a toxic gas. Water.

Materials to avoid: Strong oxidising agents.

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### V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

<u>Contact Points:</u>	AUSTRALIA
<b>Police and Fire Brigade:</b>	<b>Dial 000</b>
<b>If ineffective:</b>	<b>Dial 1100 (Exchange)</b>
<b>National Poisons Information Centre:</b>	<b>Dial 13 1126 (from anywhere in Australia)</b>

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. The responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Please read all labels carefully before using product.