

HPC 2001

SAFETY DATA SHEET

Hazardous according to the criteria of ASCC

-1. SUBSTANCE IDENTIFICATION/ PREPARATION AND COMPANY DETAILS

Product Name: HPC 2001

Supplier: Curran Chemicals Pty Ltd
ACN: 83 080 622 662

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Australia

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2. HAZARDS IDENTIFICATION

Hazardous according to criteria of Safe Work Australia

GHS classification:

Flammable liquids, Category 2, **H225**
Acute toxicity (inhalation), Category 4, **H332**
Serious eye damage/Eye irritation, Category 2, **H319**
Carcinogenicity, Category 2, **H351**



Signal word

Danger

Hazard statements

H315: Cause skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer. Inhalation exposure may cause dysfunction of the central nervous system.

Precautionary statements

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container in accordance with local/regional/national/international Regulations.

Classified as Dangerous Goods for the purpose of transport by road or rail. Refer to relevant regulations for storage and transport requirements.

Class: 6.1 (B)

Poisons Schedule (Aust) / Toxic Substance(NZ): S5

This material is a scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended use: to remove paint on any surface (except vinyl).

Appearance: Light yellow with strong solvent odour.

Dichloromethane	75-09-2	60 – 80%	R40, Cat3 Carc
Proprietary blend of anionic and non-ionic surfactants		5 – 10%	-
Wax		< 1%	
Thickener		< 2%	
Xylene	1330-20-7	< 1%	

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126)

Ingestion: Rinse mouth with water. Give water to drink Do NOT induce vomiting. Seek immediate medical assistance.

Eye contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Seek immediate medical assistance.

Skin contact: Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. If irritation occurs seek medical advice.

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. Seek medical advice.

Notes to physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Specific Hazards: Non-flammable, however keep containers cool by spraying with water to prevent pressure build up and drums bursting. When subject to high heat may produce water vapour, carbon monoxide, carbon dioxide and other unidentified organic compounds.

Fire fighting further advice: Fire fighters to wear self-contained breathing apparatus if risk of exposure to fumes of phosgene, hydrogen chloride and carbon monoxide. Heating can cause vapour or products of decomposition (refer to section 10).

6. ACCIDENTAL RELEASE MEASURES

For all spills: Clear area of all unprotected personnel. Work up wind. Increase ventilation. Wear full protective equipment to prevent skin and eye contamination and inhalation of vapours.

Small Spills: Contain – use absorbent (soil, sand or other inert material). Transfer to a container for disposal or recovery (1).

Large Spills: Contain – prevent runoff into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled drums for disposal. If contamination of sewers or waterways has occurred advise the local emergency services.

Environmental Precautions: Material will sink in water. Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

7. HANDLING AND STORAGE

Storage: Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store Away from foodstuffs. Keep containers closed at all times – check regularly for leaks. Containers should be of Mild steel, or amber or dark solvent resistant plastic or glass. Do not store in aluminium or aluminium alloy Containers. Bulk storage vessels should be made of steel and require a suitable vent or pressure relief valve. Storage tanks should be bonded to accommodate 110% of the tank volume (1). Use of galvanised components should be avoided because of the risk of producing highly toxic dichloroacetylene.

Handling: Avoid breathing vapour. Avoid contact with skin and clothing. Do not swallow. Use with adequate ventilation. Do not enter confined spaces unless adequately ventilated. Welding or cutting should not be carried out on any vessel likely to contain solvent as toxic and corrosive decomposition products (hydrogen chloride) can be formed.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standards for constituents: -

Dichloromethane: 8hr TWA = 174mg/m³ (50ppm), Cat. 3 Carc. Sk

As published by the National Occupational Health and Safety Commission. TWA – the Time-Weighted Average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life. STEL (Short Term Exposure Limit) – the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour work day. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. Carcinogen Category 3 – substances suspected of having carcinogenic potential. The available information is not adequate for making a satisfactory assessment.

'Sk' notice – absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering measures: Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Vapour heavier than air – prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES(S), RESPIRATOR. Avoid skin and eye contact and inhalation of vapour. Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour	:	Light yellow with strong solvent odour.
Boiling Point/Melting Point (°C)	:	41
Vapour Pressure	:	300 (solvent only)
Percent Volatile by volume	:	60-80
Specific Gravity	:	1.2
pH (concentrate)	:	Not Applicable
pH (use in dilution of 1%)	:	Not Applicable
Solubility in water	:	Emulsifies
Other Data	:	None
Flash Point (°C)	:	None, Non-flammable

10. STABILITY AND REACTIVITY

Stability: Reacts heat, open flame, sparks, strong oxidising agents and acids.

11. TOXICOLOGICAL INFORMATION

Main symptoms: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

Ingestion:	Swallowing can result in nausea, vomiting and central nervous system depression. If coordinated there is a greater likelihood of vomit entering the lungs and causing subsequent complications. An eye irritant.
Skin contact:	Will have a degreasing action on the skin. Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis.
Inhalation:	Vapour may be irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and, if exposure is prolonged, unconsciousness.
Long term effects:	Evidence indicates that repeated or prolonged exposure to toluene could result in central nervous system disorders. (1)

Acute toxicity / Chronic toxicity No LD50 data available for product. The toxicity of the product may be attributed to the solvents it contains. Additive effects may occur with mixtures of solvents. Similar effects can occur where the consumption of alcohol is also involved.

For the component methylene chloride (1):

Oral LD50 (rat)" 2100 mg/kg

Inhalation LC50 (rat): 200 mg/m³/15 minutes.

No adverse effects on blood count, blood pressure, pulmonary function, neurological function, cognitive function, alertness, and coordination were detected when healthy adults were exposed repeatedly to up to 250 ppm of methylene chloride for 7.5 hours/day, 5 days/week for two weeks or in the case of the male subjects, at 500 ppm on two consecutive days. Several major studies on human workers showed no casual relationship between exposure to methylene chloride and an increase in the evidence of cancer.

A chronic inhalation study in the mouse has shown that methylene chloride is carcinogenic in this species, when exposed to levels well above the exposure level, causing tumours both in the liver and the lung. Additional studies in the mouse, rat and the hamster have shown no further significant evidence of a carcinogenic effect. The effect in mice is specific to this species and is very unlikely to occur in humans. This is due to well established differences in the metabolic pathways between rodents and humans. This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 2B agent. Group 2B – The agent is possibly carcinogenic to humans.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

However, for the component methylene chloride (1):

Low toxicity to aquatic organisms.

24 hr LC50 (Lepomis macrochirus):	230 mg/L
48 hr LC50 (Daphnia magna):	224,000 ug/L
96 hr LC50 (fat head minnow):	193 mg/L
96 hr LC50 (Mysid shrimp):	256,000 ug/L
14 day LC50 (Poecilla reticulata) guppy:	294 ppm 14 day.

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Advise flammable nature. Normally suitable for incineration by approved agent.

14. TRANSPORT INFORMATION

Road and Rail Transport: Classified as Dangerous Goods for the purpose of transport by road or rail. Refer to relevant regulations for storage and transport requirements.

UN-No:	1593
Class:	6.1
Hazchem code:	2Z
EPG:	8C1
Packing group:	Packing Group 3
Proper Shipping Name:	Dichloromethane

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, poison gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

Marine Transport: Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) for transport by sea

UN-No:	1593
Class:	6.1
Hazchem code:	2Z
EPG:	8C1
Packing group:	Packing Group 3
Proper Shipping Name:	Dichloromethane

Air Transport: Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) for transport by air.

UN-No: 1593
Class: 6.1
Hazchem code: 2Z
EPG: 8C1
Packing group: Packing Group 3
Proper Shipping Name: Dichloromethane

15. REGULATORY INFORMATION

Hazardous according to criteria of Safe Work Australia.

Hazard Category

Xn: Harmful

R-phrases(s)

R20: Harmful by inhalation
R36: Irritating to eyes.
R40(3): Possible risks of irreversible effects.

S-phrase(s)

S23: Do not breathe vapour.
S24/25: Avoid contact with skin and eyes.
S33: Take precautionary measures against static discharges.
S36/37: Wear suitable protective clothing and gloves.

Poisons Schedule (Aust) / Toxic Substance (NZ): S5 Caution

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

(1) Supplier Safety Data Sheet – Methylene chloride; CDS/# 10281 – Orica Australia Pty Ltd

This Material Safety Data sheet has been prepared by Stelco Chemicals Pty Ltd

This MSDS summarises at the date of issue our best knowledge of the health and safety information of the product, and in particular how to safely handle and use the product in the workplace. As each workplace is different each user must, prior to use, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification of further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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Product name: HPC 2001

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