

Infosafe No™ 3CH4P	Issue Date : February 2022	RE-ISSUED by CHEMSUPP
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 Product Name **SOLVENT X55**

Classified as hazardous

Section 1 - Identification

Product Identifier SOLVENT X55
Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)
Address 38 - 50 Bedford Street GILLMAN
 SA 5013 Australia
Telephone/Fax Number Tel: (08) 8440-2000
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Recommended use of the chemical and restrictions on use Industrial Solvent.

Other Names	<u>Name</u>	<u>Product Code</u>
	SOLVENT X55 TG	ST483
	Petroleum ether	
	Petroleum naphtha	
	Petroleum distillate	
	PETROLEUM SPIRIT 72-135°C	
	SOLVENT 13 TG	ST069

Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture Flammable Liquids: Category 2
 Aspiration Hazard: Category 1
 Skin Corrosion/Irritation: Category 2
 Toxic to Reproduction: Category 2
 Specific target organ toxicity - Single Exposure Category 3 (narcotic)
 Specific target organ toxicity - (Repeatd Exposure) Category 2
 Hazardous to the Aquatic Environment - Acute Hazard: Category 2
 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

Signal Word DANGER

Hazard Statement (s) H225 Highly flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H361 Suspected of damaging fertility or the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.

Pictogram (s) Flame, Health hazard, Exclamation mark, Environment,



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Precautionary Statement – Prevention	P102 Keep out of reach of children. P103 Read label before use. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement – Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P362 Take off contaminated clothing and wash before reuse.
Precautionary Statement – Storage	P403+P235 Store in a well-ventilated place. Keep cool.
Precautionary Statement – Disposal	P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Light Aliphatic Petroleum Solvent	64742-89-8	0->60 %
	n-Hexane	110-54-3	10-30 %
Other Information	Low boiling point naphtha [A complex combination of hydrocarbons obtained from the distillation of crude oil or natural gasoline. It consists predominantly of saturated hydrocarbons having carbon numbers predominantly in the range of C5 through C10 and boiling in the range of approximately 35C to 160C (95F to 320F).]		

Section 4 - First Aid Measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If vomiting occurs get immediate medical attention due to aspiration risk. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Seek immediate medical assistance.
Skin	Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Rest eyes for 30 minutes. Seek medical advice if effects persist.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

Section 5 - Firefighting Measures

Infosafe No™ 3CH4P Issue Date : February 2022 RE-ISSUED by CHEMSUPP

Product Name **SOLVENT X55**

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Hazards from Combustion Products	A complex mixture of airborne solids, liquids and gases, including carbon dioxide and other organic compounds. Carbon monoxide may evolve in cases of incomplete combustion. Highly dependent on conditions.
Specific Methods	Caution: Use of water spray when fighting fire may be inefficient. Small fire: Use foam, dry chemical, CO2 or water spray. Large fire: Use foam, fog or water spray - Do not use water jets. If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.
Specific Hazards Arising from the Chemical	HIGHLY FLAMMABLE: These products have a low flash point - Will be easily ignited by heat, sparks or flames at ambient temperatures. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Fire may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Many liquids are lighter than water. Many vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Vapours from run-off may create an explosion hazard.
Hazchem Code	3YE
Precautions in connection with Fire	SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

Section 6 - Accidental Release Measures

Spills & Disposal	ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50m - All equipment used in handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours. Absorb spill with earth, sand or other non-combustible material - Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal. Water spray may be used to knock down or divert vapour clouds. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Precautions	Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)

Section 7 - Handling and Storage

Precautions for Safe Handling	Avoid ingestion or inhalation of liquid or vapours. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated exposure. Use only with adequate ventilation. Keep container tightly closed when not in use. Handle and open container with care in a well-ventilated area. Ventilate workplace in such a way that the Occupational Exposure Limit (OEL) is not exceeded. Wear appropriate protective equipment. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep away from heat, and all sources of ignition (sparks, flames) - Do not smoke. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Take precautionary measures against static discharges. Ground and bond all equipment, and containers when transferring material. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/sec until fill pipe submerged to twice its diameter, then ≤ 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Empty containers retain product residue, (liquid and/or vapour), and can be dangerous and explosive. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. Must be stored in a diked (bunded) area, protected from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded).

Infosafe No™ 3CH4P	Issue Date : February 2022	RE-ISSUED by CHEMSUPP
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Storage Regulations	Refer Australian Standard AS 1940-2004 'The storage and handling of flammable and combustible liquids'.
Storage Temperatures	Ambient.
Product Transfer	Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Take precautions against electrostatic discharge by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/sec until fill pipe submerged to twice its diameter, then ≤ 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve.
Recommended Materials	For containers, or container linings use mild steel, stainless steel. For container paints, use epoxy paint, zinc silicate paint.
Unsuitable Materials	Avoid prolonged contact with natural, butyl or nitrile rubbers.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limit (OEL) Values	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	n-Hexane			72	20	
Other Exposure Information	A time weighted average (TWA) has been established for Hexane (n-Hexane) (Safe Work Australia) of 72 mg/m ³ , (20 ppm) and for Ethyl benzene (Safe Work Australia) of 434 mg/m ³ , (100 ppm). The corresponding STEL level for Ethyl benzene is 543 mg/m ³ , (125 ppm). 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.					
Engineering Controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.					
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.					
Eye and Face Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.					
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Nitrile rubber gloves PVA gloves. Silver Shield gloves					
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.					
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.					
Body Protection	Flame retardant antistatic protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.					
Hygiene Measures	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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Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Colourless Liquid.
Odour	Paraffinic sweet odour.
Boiling Point	66 - 115 °C.
Solubility in Water	<0.1 g/L
Solubility in Organic Solvents	Miscible in hydrocarbon solvent(s).
Specific Gravity	Typical: 685 - 720 kg/m ³ at 15 °C.
Vapour Pressure	15 kPa at 20 °C/68 °F (estimated value)
Relative Vapour Density (Air=1)	3.1
Coefficient Water/Oil Distr.	Log P (o/w): ca 4
Volatile Component	100%
Flash Point	<-20 °C
Flammability	Flammable liquid. HIGHLY FLAMMABLE. Keep away from heat, sparks or naked flames. Use flameproof equipment and fittings to prevent flammability risk. Electrically link and ground metal containers for transfer of the product to prevent accumulation of static electricity. Ensure adequate ventilation to prevent an explosive vapour-air mixture. Vapours will travel considerable distances to sources of ignition.
Auto-ignition Temperature	350 °C
Flammable Limits - Lower	1 %Vol
Flammable Limits - Upper	7.5 %Vol
Explosion Properties	Vapour may form an explosive mixture with air. Residues may cause an explosion hazard.
Initial Boiling Point and Boiling Range	40 °C min.
Relative Evaporation Rate	nBuAc=1 = 6.8 (ASTM D3539)
Other Information	Aniline Point: 58 - 64 °C (ASTM D611).

Section 10 - Stability and Reactivity

Chemical Stability	Stable under normal temperatures, pressures and conditions of use.
Conditions to Avoid	Heat, sparks, open flames and other ignition sources, confined spaces and incompatible materials.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	A complex mixture of airborne solids, liquids and gases, including carbon monoxide (in cases of incomplete combustion), carbon dioxide and other organic compounds. Highly dependent on conditions.
Hazardous Polymerization	Has not been reported.

Section 11 - Toxicological Information

Ingestion	May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory
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Inhalation	failure. May cause lung damage if swallowed. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal. Expected to be of low toxicity. Inhalation of vapour may cause respiratory tract irritation, drowsiness and dizziness. Harmful: danger of serious damage to health by prolonged exposure through inhalation. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death. Narcotic at high vapour concentrations.
Skin	Causes skin irritation. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. Symptoms may include a burning sensation and/or a dried/cracked appearance. Not expected to cause an allergic skin reaction.
Eye	Vapours may be irritating to the eye.
Carcinogenicity	Carcinogenicity: Category 1
Reproductive Toxicity	Reproductive toxicity (including via lactation): This material has been classified as a Category 2 Hazard.
STOT - Single Exposure	This material has been classified as a Category 2 Hazard. Exposure via inhalation may effect the central nervous system.
STOT - Repeated Exposure	This material has been classified as a Category 2 Hazard. Exposure via inhalation may effect the central nervous system.
Chronic Effects	Prolonged or repeated exposure affects the central nervous system. Repeated exposure causes peripheral neuropathy (severe nerve damage, resulting in sensory loss) which can be potentiated by ketones. Chronic hydrocarbon abuse (for example, sniffing glue or light hydrocarbons such as contained in this material) has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged or repeated skin contact may cause defatting and dermatitis. This material has caused kidney effects in male rats which are not considered relevant to humans.

Section 12 - Ecological Information

Ecotoxicity	No information available.
Persistence and Degradability	No information available.
Mobility	No information available.
Bioaccumulative Potential	No information available.
Short Summary of Assessment of Environmental Impact	Long term aquatic hazard: This material has been classified as a Category 2 Hazard. Non-rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data. Acute toxicity estimate (based on ingredients): 1 - 10 mg/L where the substance is not rapidly biodegradable and/or BCF > 500 and/or log Kow > 4.
Environmental Protection	Do not allow to enter waters, waste water, or soil!

Section 13 - Disposal Considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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Section 14 - Transport Information

Transport Information	Dangerous Goods of Class 3 Flammable Liquids, are incompatible in a placard load with any of the following: - Class 1, Class 2.1, if both the Class 3 and Class 2.1, dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane and Class 7.
ADG UN Number	1268
ADG Proper Shipping Name	PETROLEUM DISTILLATES, N.O.S. - (SOLVENT NAPHTHA)

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ADG Transport Hazard Class	3
ADG Packing Group	II
Hazchem Code	3YE
EPG Number	3A1
IERG Number	14
Environmental Hazards	Expected to be toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Section 15 - Regulatory Information

Poisons Schedule	S5
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Section 16 - Any Other Relevant Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
Safe Work Australia, 'Hazardous Chemical Information System'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula Mixture of C5 - C10 hydrocarbons.

Technical Data The quantity of benzene present in this material is not expected to exceed 0.1 %v/v.
...End Of MSDS...

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