

ASCC (NZ) Pty. Ltd**MSDS Summary Information**

For further information : Please refer to the ASCC SDS

Issue: December, 2007

PRODUCT: Pegasol 1425**Other Names:** Petroleum spirit**Uses:** Industrial solvent: cleaning and degreasing**UN No.** 3295**Dangerous Goods Class:** 3**Subsidiary Risk:** None**Packing Group:** II**HAZCHEM:** 3YE

Hazardous Nature:	This product is classified as hazardous under HSNO criteria
Exposure Standards:	TWA: 600 mg/m ³ (159 ppm) STEL : Not specified
Environmental Standards:	EEL (air) : Not available

Physical Characteristics (Typical)	Section 9 of SDS
Appearance	Clear, colourless liquid
Boiling Point/Range (°C)	75 - 115
Flashpoint (°C)	-15
Specific gravity/Density (g/ml @ 15°C)	0.72
Chemical Stability	Stable at room temperature and pressure
Reactivity	Oxidising agents, mineral acids, halogenated organic compounds.

Product Ingredients	Section 3 of SDS	
Heptane and isomers	various	32 - 36
Cyclohexane	110-82-7	25 – 27
Hexane	110-54-3	15 – 20
Methylcyclohexane	108-87-2	< 10

For further ingredients information, please refer to the SDS

Hazardous Statements	Section 2 of SDS
H225 Highly flammable liquid and vapour	H316 Causes mild skin irritation
H304 May be harmful if swallowed	H320 Causes eye irritation
H363 May cause damage to organs through prolonged or repeated exposure	H411 Toxic to aquatic life with long lasting effects

For further Hazard and Precautionary information, please refer to the SDS

Dangerous Goods	Products that are classified as Dangerous for Storage and Transport: these products are allocated a UN No., with accompanying Class, Pack Group, and Sub. Risk, if required. Products that do not have a specific description under the code, but have low flash points, or such, must be classified under their most significant risk, e.g. Flammable Goods N.O.S. (Not otherwise specified), UN 1993
Hazardous Substance	Products are considered to be Hazardous if they pose an intrinsic risk to human or environmental health, such as mutagens (able to change DNA), teratogens (able to result in birth defects), carcinogens (able to generate cell abnormalities), etc.
HSNO Act	Hazardous Substance and New Organisms Act – limits and manages the transaction of hazardous substances in New Zealand and her territories.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name: Pegasol 1425
Other Names: Petroleum spirit
Chemical Family: Blended hydrocarbon
Molecular Formula: -
Recommended Use: Industrial solvent ; cleaning and degreasing
Supplier: Australasian Solvents and Chemicals Company Pty. Ltd
Address: PO Box 8340, Symonds Street, Auckland, N.Z.
Telephone: 0800 754 767
Emergency phone: **CHEMCALL: 0800 243 622**
All other inquiries: 0800 754 767

2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications: 3.1B, 6.1E, 6.3B, 6.4A, 6.9B, 9.1B

Signal word: **DANGER**

Hazard Statements :

H225 Highly flammable liquid and vapour H304 May be harmful if swallowed
 H316 Causes mild skin irritation H320 Causes eye irritation
 H363 May cause damage to organs through prolonged or repeated exposure
 H411 Toxic to aquatic life with long lasting effects

Precaution Statements :

P103 Read label before use P210 Keep away from ignition sources such as heat, sparks, open flame and hot surfaces. No smoking.
 P233 Keep container tightly closed P240 Ground container and receiving equipment
 P241 Use explosion-proof electrical, ventilating and lighting equipment P242 Use only non-sparking tools
 P243 Take precautionary measures against static discharge P260 Do not breathe vapours
 P264 Wash hands thoroughly after using P273 Avoid release to the environment
 P280 Wear protective gloves, protective clothing and eye protection

3. COMPOSITION : Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Heptane and isomers	various	32 - 36
Cyclohexane	110-82-7	25 - 27
Hexane	110-54-31	15 - 20
Methylcyclohexane	108-87-2	< 10
Other hydrocarbon compounds	various	< 10

4. FIRST AID MEASURES

For advice, contact National Poison Centre (Phone New Zealand: 0800 764 766) or a doctor.

Swallowed

If swallowed, do not induce vomiting. Give a glass of water if person is conscious. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Skin Contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. For advice, contact the National Poisons Centre (0800 746 766) or a doctor.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.

First Aid facilities

Provide eye baths and safety showers close to areas where splashing may occur.

Medical Attention

Treat according to symptoms. Gastric lavage may be indicated if ingested. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media :

Dry chemical or foam

Hazards from combustion products:

Carbon dioxide and carbon monoxide

Precautions for fire fighters and special protective equipment:

Full protective clothing and self-contained breathing apparatus

Hazchem Code: 3YE

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard.
- Prevent liquid from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimize the effect on the ground water.
- Contain the spilled liquid with sand or earth.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE

Precautions for safe handling:

This product is Highly Flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage:

Store in a cool, dry place away from direct sunlight. Do not pressurize, cut, heat or weld containers - residual vapours are flammable. This product is highly flammable and will fuel a fire in progress.

Incompatible materials:

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS : PERSONAL PROTECTION**Health Exposure Standards:**

The following Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES), 2002 have been set by the Occupational Safety and Health Service , NZ Department of Labour for components in this substance:

	WES-TWA	WES-STEL
Heptane	400 ppm; 1640 mg/m ³	500 ppm; 2050mg/m ³
Cyclohexane	100 ppm; 350 mg/m ³	300 ppm; 1050mg/m ³
Hexane (BIO)	20 ppm; 72 mg/m ³	
Methylcyclohexane	400 ppm; 1610 mg/m ³	

The suppliers recommendation for this product: WES-TWA 159 ppm; 600 mg/m³

Biological limit values :

None established

Engineering Controls:**Ventilation:**

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

Personal Protective Equipment:

Respiratory Protection: Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/ Body Protection: Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Boiling Point/Range	°C	75 115
Flash Point	°C	-15
Density @ 15°C	g/ml	0.72
Vapour Pressure @ 20°C	kPa	8.65
Vapour Density @ 20°C	kPa	Not available
Autoignition Temperature	°C	> 200
Explosive Limits in Air	%	1.0 – 7.0
Viscosity	cSt	Not applicable
Volatiles	%	100
Solubility in Water	% w/w	< 0.10

The values listed are indicative of this product's physical and chemical properties.
For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure.

Conditions to avoid: Sources of heat and ignition, open flames.

Hazardous decomposition products: No decomposition products except on burning. See "Fire Fighting Measures".

Hazardous reactions: Oxidizing agents, mineral acids, halogenated organic compounds.

11. TOXICOLOGICAL INFORMATION**Acute Effects****Ingestion**

Produces hallucinations and narcotic effect. Ingestion of large amounts will result in drowsiness, fatigue, loss of appetite, paresthesia in distal extremities (tingling in hands and feet). Possibility of muscle weakness, cold pulsation in extremities (hands and feet), blurred vision, headache and nausea. Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema.

Eye Contact

This product is irritating to the eyes, but will not permanently damage the eye tissue.

Skin Contact

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking of the skin.

Inhalation

Vapour concentrations are irritating to the nose and throat. Exposure to high concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations and possible loss of consciousness.

Chronic Effects

This product contains n-hexane, a confirmed toxicant for target organs and systems. There is evidence of potentially irreversible damage to the peripheral nervous system, particularly arms and legs.

Other Health Effects Information:

This product contains n-hexane, where effects of this constituent show incidents of experimental teratogenic and reproductive effects and mutation data has been reported. The effects of this product in combination with MEK are potentiated (greatly increased). This means the effects suffered by ingestion or inhalation will be increased, or experienced more quickly.

Toxicological Information:

Cyclohexane	LD50 (oral, mouse)	813 mg/kg
	LC50 (inhalation, rat)	13.9 mg/L
Heptane	LD50 (intravenous, mouse)	222 mg/kg
	LC50 (inhalation, human)	1000 ppm
Methylcyclohexane	LD50 (oral, mouse)	2250 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic in the aquatic environment with long lasting effects.

Aquatic toxicity:

Cyclohexane	<i>Daphnia magna</i>	EC50 (48hr)	3.78 mg/L
Hexane	Fathead minnow	LC50 (96hr)	2.5 mg/L
	<i>Daphnia magna</i>	EC50 (48hr)	3.9 mg/L
Methylcyclohexane	<i>Daphnia magna</i>	EC50 (48hr)	1.56 – 2.46 mg/L

Persistence/degradability: Product contains some components that are either persistent (cyclohexane) or bioaccumulative (heptane). This product can degrade rapidly in air. Expected to be removed in wastewater treatment. Based upon data for similar components or estimated data, this product is expected to biodegrade and be 'readily' biodegradable according to OECD guidelines.

Mobility: This product is highly volatile and will rapidly evaporate to the air if released into the water.

Environmental Exposure Standards:

EEL (WATER):	Not set
EEL (SOIL)	Not set
EEL (SEDIMENTS)	Not set

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

Special Precautions for Landfill or Incineration:

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be burned directly in appropriate equipment.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3295	UN No.	3295	UN No.	3295
Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S (petroleum spirit)	Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S (petroleum spirit)	Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S (petroleum spirit)
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	II	Packing Group	II	Packing Group	II
Hazchem	3YE	Hazchem	3YE		

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group II. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2007 Transport of Dangerous Goods on Land for information.

15. REGULATORY INFORMATION

Country/ Region: Australia, New Zealand

Inventory: AICS, NZCIL

Status: Listed

ERMA New Zealand Approval Code: HSR002650

Solvents (Flammable) Group Standard 2006

HSNO Controls: Codes: F1 - F6, F11, F12, F14, F16, T1, T2, T4, T7, E1, E6,, P1, P3, P5, PI3, P15, PG2, D2, D4 - D8, AH1, EM1, EM6, EM8 - EM13, I1, I3, I5, I8, I9, I11, I13, I16 - I19, I21, I23, I25, I28 - I30, GN35A.

Refer to www.ermanz.govt.nz for information on Controls.

16. OTHER INFORMATION

Reasons for Issue: Update HSNO and Transport related information

Abbreviations:

AICS: Australian Inventory of Chemical Substances

NZCI: New Zealand Chemical Inventory

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

NOHSC: National Occupational Health and Safety Council

References:

Supplier Material Safety Data Sheets

Sax's Dangerous Properties of Industrial Materials, Richard J. Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Australasian Solvents and Chemicals Company (NZ) Pty. Ltd.