AUSTRALASIAN SOLVENTS AND CHEMICALS COMPANY PTY LTD.

PO Box 8340, Symonds Street, Auckland NZ
Free Call: 0800 754 767
CHEMCALL: 0800 243 622
www.ascc.net.au

SAFETY DATA SHEET SUMMARY INFORMATION
For further information: Please refer to the Safety Data Sheet

Issue: March 17

PRODUCT: Pegasol™ 1425

Other Names: Petroleum spirit

Uses: Industrial solvent; cleaning and degreasing

UN No.:	3295
Dangerous Goods Class:	3
Subsidiary Risk:	
Pack Group:	II
Hazchem Code:	3YE

Hazardous Nature:	This product is classified as hazardous under HSNO criteria
Hazard Classifications:	3.1B: Highly flammable liquid and vapour; 6.1E: Aspiration hazard; 6.3A: Skin irritant; 6.9 (narcotic): May cause drowsiness or dizziness; 9.1B: Toxic to aquatic life with long lasting effects.
Exposure Standards:	TEL (Air): Not available ; TWA and STEL: Not available for mixture.
Environmental Standards:	EEL (Air): Not available

Physical Characteristics (Typical) — Section 9 of SDS

Appearance:	Clear, colourless liquid
Boiling Point/ Range (°C):	78 - 110
Flash Point (°C):	-15
Specific Gravity/ Density (g/ml @ 15°C):	0.72
Acidity/ Alkalinity:	Not applicable
Autoignition Temperature (°C):	>200
Chemical Stability:	Stable at room temperature and pressure

Product Ingredients — Section 3 of SDS

Ingredient:	CAS Number:	Proportion (% w/w):
Naphtha (Petroleum), hydrotreated light	64742-49-0	100

For further ingredients information, please refer to the full SDS.

Hazardous Standard Statements — Section 2 of SDS

H225 Highly flammable liquid and vapour, H304 May be fatal if swallowed and enters airways; H315 Causes skin irritation; H336 May cause dizziness and drowsiness, H411 Toxic to aquatic life with long-lasting effects.

For full Hazard and Precautionary Statements: See Section 2 of SDS

P210 Keep away from heat/sparks/flame. No smoking, P233 Keep container tightly closed, P240 Ground/bond container and receiving equipment, P241 Use explosion-proof equipment, P242 Use only non-sparking tools, P243 Take precautionary measures against static discharge, P261 Avoid breathing vapours, P264 Wash hands thoroughly after handling , P271 Use only outdoors or in well-ventilated area, P273 Avoid release to environment, P280 Wear protective gloves.

IDENTIFICATION

Product Name:	Pegasol™ 1425
Other Names:	Petroleum spirit
Chemical Family:	Blended hydrocarbon
Molecular formula:	Not available
Recommended Use:	Industrial chemical
Supplier:	Australasian Solvents and Chemicals Company Pty Ltd
Address:	PO Box 8340, Symonds Street, Auckland NZ
Telephone:	0800 754 767
Emergency Phone:	CHEMSAFE:
National Poisons Centre:	0800 764 766
CHEMCALL:	0800 243 622

1. HAZARDS IDENTIFICATION

Hazardous Substance:

This product is classified as hazardous under HSNO criteria.

HSNO Approval Number: HSR002650

Hazardous Classifications: 3.1B: Highly flammable liquid and vapour; 6.1E: Aspiration hazard; 6.3A: Skin irritant; 6.9 (narcotic): May cause drowsiness or dizziness; 9.1B: Toxic to aquatic life with long lasting effects.
GHS Pictogram:

Signal word: DANGER

Hazard Statements:
H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause dizziness and drowsiness.
H411 Toxic to aquatic life with long-lasting effects.

Precautionary Statements:
Prevention
P210 Keep away from heat/sparks/flame. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapours.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in well-ventilated area.
P273 Avoid release to environment.
P280 Wear protective gloves.

Response

P101 If medical advice is needed, have product container or label at hand.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
P331 Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice.
P362 Take off contaminated clothing and wash before reuse.
P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTRE or doctor if you feel unwell.
P370 + P378 In case of fire: Stop leak if sae to do so.
H391 Collect spillage.

Storage

P403 + P235 Store in well-ventilated place. Keep cool.
P233 Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of product and packaging in accordance with local regulations.

Dangerous Goods Classification 3 **Packing Group** II

Hazchem Code 3YE

2. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% w/w)
Naphtha (Petroleum), hydrotreated light ; Product is a complex mixture and may contain:	64742-49-0	100
Cyclohexane, 20 – <30%	110-82-7	
Heptane, 60 - <70%	142-82-5	
Methylcyclohexane, 10-<20%	108-87-2	
n-Hexane, 1-<5%	110-54-3	
Octane, 1-<5%	111-65-9	

3. FIRST AID MEASURES

For advice, contact the National Poisons Centre (Phone New Zealand: 0800 764 766) or a doctor.
If exposed or concerned: Get medical advice.

Swallowed

If swallowed, do NOT induce vomiting. Obtain immediate medical advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into lungs.

Skin Contact

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice. Launder contaminated clothing before re-use.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water for 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical attention if irritation persists.

Inhalation

Move the person to fresh air immediately. Keep warm and at rest until recovered. Get medical advice if feeling unwell. Begin artificial respiration if breathing has stopped and get immediate medical assistance.

First Aid facilities
Provide eye baths and safety showers close to areas where splashing may occur.
Note to Doctor/Physician
If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

4. FIRE FIGHTING MEASURES

Product is highly flammable liquid and vapour. Shut off product that may 'fuel' a fire, if safe to do so. Clear area. Vapour is heavier than air and may spread across ground and distant ignition is possible. 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
Alcohol foam, dry chemical or CO2. Do NOT use straight streams of water.
Hazards from combustion products
Smoke, carbon dioxide and carbon monoxide and incomplete combustion products.
Precautions for fire fighters and special protective equipment
Full protective clothing and self-contained breathing apparatus. Keep adjacent containers cool by spraying with water.
Hazchem Code
3YE

5. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Avoid contact with spilled material. Isolate and evacuate area. Wear personal protective equipment. Prevent entry by unnecessary or unprotected personnel. If possible, isolate or remove sources of ignition. Prevent product from escaping to drains and waterways. Product will float on water. Contain leaking packaging in a containment vessel. Prevent any vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately to relevant authorities.

Methods and materials for containment

Major Land Spill

- Stop leak if you can do so safely.
- Eliminate sources of ignition.
- Contain the spilled product.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Warn occupants in downwind areas of possible hazards.
- Keep the public away from the area.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the groundwater.
- Use clean non-sparking tools. All equipment must be grounded.
- Recover product by containing and collecting methods. For liquids: use a flame-proof pump or hand pump – or collect with suitable absorbent material, e.g. dry earth, sand or non-combustible 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

- Stop leak if you can do so safely.
- Eliminate sources of ignition.
- Warn occupants and shipping in downwind areas of possible hazards.
- Notify the port or relevant authority and keep the public away from the area.
- 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”.

6. HANDLING AND STORAGE

Precautions for safe handling

Liquid and vapour are highly flammable. No smoking. Wear personal protective equipment. Avoid breathing vapours or contact with skin, eyes or clothing. Use outdoors or in well ventilated area. Wash thoroughly after handling and before rest breaks or meals.

Keep container closed when not in use. Handle containers with care. Do not open near naked flame, sources of heat or ignition. Open slowly to control possible pressure release. No splash filling. Material will accumulate static charge which may cause an electrical spark (ignition source). Use bonding and/or earthing measures to avoid discharge (electrical spark) but note this may not eliminate hazard. Electrostatic charges may be generated when pumping. Restrict line velocity.

Conditions for safe storage

Store locked up in a cool, dry place well ventilated place away from direct sunlight and incomptible substances . Do not pressurise, cut, heat or weld containers. This product will fuel a fire in progress.

Compatible materials

Carbon steel, stainless steel, polyethylene, polypropylene, polyester, Teflon.

Incompatible materials

Natural rubber, butyl rubber, EDPM, polystyrene, PVC, polyacrylonitrile.

7. EXPOSURE CONTROLS: Personal Protection

Exposure Standards

The time-weighted average concentration (TWA) is the highest allowable exposure concentration in an eight-hour day for a five-day working week.
The short-term exposure limit (STEL) is the maximum allowable exposure concentration at any time.
WorkSafe has set workplace limits (WES) for components in this product.
Cyclohexane TWA: 350 mg/m^3 (100 ppm); STEL: 1050 mg/m^3 (300 ppm)
Heptane TWA: 1640 mg/m^3 (400 ppm); STEL: 2050 mg/m^3 (500 ppm)
Hexane $_{BIO}$ TWA: 72 mg/m^3 (20 ppm)
Methylcyclohexane TWA: 1610 mg/m^3 (400 ppm)
Octane TWA: 1400 mg/m^3 (300 ppm)

Supplier recommendation for product:
Total hydrocarbons, vapour RCP-TWA 1000 mg/m^3

The Toxic Exposure Limit in Air – TEL (Air): Not available
The Toxic Exposure Limit for Skin – TEL (Skin): Not available
The Toxic Exposure Limit for Drinking Water – TEL (Drinking Water): Not available

Biological Exposure 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 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.
For high airborne concentrations, use an approved supplied-air respirator operated in positive pressure mode.

Eye protection: Always wear chemical splash goggles or safety glasses with side shields when handling this product.
Skin/ Body Protection: Wear chemical/oil resistant clothing with long sleeves and long trousers or coveralls, and enclosed footwear or safety boots. Wear chemical resistant gloves, e.g. nitrile.

8. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	None	Clear, colourless liquid
Odour		Petroleum
Boiling Point/ Range	°C	78 - 110
Flash Point	°C	-15
SG/ Density @ 15°C	g/ml; kg/m^3	0.72
Vapour Pressure @ 20°C @ 38°C @ 50°C	kPa	8.65 19.44 Not available
Vapour Density @ 20°C, 101 kPa	g/ml; kg/m^3	Not determined
Autoignition Temperature	°C	>200
Explosive Limits in Air	% vol/vol	1 - 7
Viscosity @ 20°C (0.6 mm^2/sec) @ 40°C (0.41 mm^2/sec)	cSt	0.6 0.41
Percent volatiles	% v/v	100
Evaporation rate	(nBuAc=1)	6
Alkalinity/ acidity as pH	None	Not applicable
Solubility in water	g/L	Negligible

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

9. STABILITY AND REACTIVITY

Chemical stability
Stable at room temperature and pressure.
Conditions to avoid
Heat, sparks, open flames and other ignition sources.
Hazardous decomposition products
No decomposition products except on burning. See "Fire Fighting Measures".
Hazardous reactions
Strong oxidizing agents.
Hazardous Polymerisation
Will not occur.

10. TOXICOLOGICAL INFORMATION

Acute Effects
Ingestion
May be fatal if swallowed and enters airways. 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 slightly irritating to eyes, with short lasting discomfort, but will not permanently damage the eye tissue.

Skin Contact
This product is irritating to the skin.

Inhalation
May be irritating to eyes, nose, throat and lungs. The inhalation of vapours will cause narcotic effects; dizziness and drowsiness. Continued inhalation may result in unconsciousness, coma and/or death.

Chronic Effects
Central nervous system depression with symptoms including headaches, dizziness and nausea.

Other Health Effects Information
This product contains n-hexane, a confirmed toxicant for target organs and systems. Prolonged and/or repeated exposure to n-hexane can cause progressive and potentially irreversible damage to the peripheral nervous system, (e.g. fingers, feet, arms, legs). Simultaneous exposure to methyl ethyl ketone (MEK) or methyl isobutyl ketone (MIBK) and n-hexane can potentiate the risk of adverse effects from n-hexane on the peripheral nervous system. This means the effects suffered by ingestion or inhalation will be increased, or experienced more quickly. N-Hexane has also been shown to cause testicular damage at high doses in male rats. The relevance of this effect for humans is unknown.

Toxicological Information:

Cyclohexane	Oral, mouse, LD_{50} 813 mg/kg
	Inhalation, rat, LC_{50}(4h) 13.9 mg/L
Heptane	Intravenous, mouse, LD_{50} 222 mg/kg
	Inhalation, human, LC_{50}(4h) 1000 ppm
Methylcyclohexane	Oral, mouse, LD_{50} 2250 mg/kg

11. ECOLOGICAL INFORMATION

Ecotoxicity
Aquatic Toxicity:
Product classified as toxic in the aquatic environment with long-lasting effects.
Ecotoxicity Data:

Cyclohexane	*Daphnia magna*	EC_{50} (48 hr) 3.78 mg/L
Heptane	Fathead minnow	LC_{50} (96 hr) 2.5 mg/L
	Daphnia magna	EC_{50} (48 hr) 3.9 mg/L
Methylcyclohexane	*Daphnia magna*	EC_{50} (48 hr) 1.56 – 2.46 mg/L

Persistence/ Biodegradability:
Expected to be readily biodegradable. Product contains some components that may be more persistent (cyclohexane) or have potential to bioaccumulate (heptane).
Mobility:
Product is highly volatile and mobile in soil. Will evaporate to air if released in water. Not expected to partition to sediment and wastewater solids.

Exposure limits:
The Environmental Exposure Limit in Air – EEL (Air): Not available.
The Environmental Exposure Limit for Water – EEL (Water): Not available.

12. DISPOSAL CONSIDERATIONS

Disposal Methods
Recover or recycle product whenever possible. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

Special Precautions

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 incinerated in a regulated facility. In the absence of a designated industrial incinerator, this product should be treated and disposed through chemical waste treatment, or considered for use in solvent recycling.

13. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No	3295	UN No	3295	UN No	3295
Proper Shipping Name	HYDOCARBONS, LIQUID, N.O.S.	Proper Shipping Name	HYDOCARBONS, LIQUID, N.O.S.	Proper Shipping Name	HYDOCARBONS, LIQUID, N.O.S.
DG Class	3	DG Class	3	DG Class	3
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group	II	Pack Group	II	Pack Group	II
Hazchem	3YE	Hazchem	3YE	Hazchem	

Dangerous Goods Segregation

This product is classified as a Dangerous Good Class 3. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

14. REGULATORY INFORMATION

Country/ Region: New Zealand, Asia Pacific

Inventory: NZIoC; AICS

Status: Listed

HSNO Approval Number: HSR002650; Solvents (Flammable) Group Standard 2006.

Hazardous Classifications: 3.1B: Highly flammable liquid and vapour; 6.1E: Aspiration hazard; 6.3A: Skin irritant; 6.9 (narcotic): May cause drowsiness or dizziness; 9.1B: Toxic to aquatic life with long lasting effects.

HSNO Controls: Refer to www.epa.govt.nz for information.

Approved Handler:
When present in quantities greater than 250 L (when in containers greater than 5 L) or 500 L (when in containers up to and including 5 L), a HSNO 3.1B substance must be—
(a) under the personal control of an approved handler who holds a current test certificate to manage HSNO class 3 substances; or
(b) secured so that a person cannot gain access to the substance without tools, keys, or any other device used for operating locks.

Tracking: No

Site and Storage Controls: Trigger quantities.
Location and transit depot test certification
- 100 L (closed containers greater than 5 L)
- 250 L (closed containers up to and including 5 L)
- 50 L (open containers)

Hazardous atmosphere zone
- 100 L (closed containers)
- 25 L (decanting)
- 5 L (open occasionally)
- 1 L (open containers in continuous use)

Fire extinguishers
- 250 L

Response plans and secondary containment
1,000 L
Signage
250 L

Transport:
Passenger Service Vehicle: Not to exceed 2.5L per package.

Safety Data Sheet: Required.
Child Resistant Packaging: Required for packaging <2.5 L.

Packaging: UN Pack Group II. For exception refer to Group Standard approval.

15. OTHER INFORMATION

Date of Issue: 24 March, 2017.

Reasons for Issue: Review of product information and updating SDS format.

Replaces: 5 June, 2015.

Abbreviations:

AICS: Australian Inventory of Chemical Substances
CAS Number: Chemical Abstracts Number
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Authority
HSNO: Hazardous Substances and New Organisms

References:

- Supplier Safety Data Sheet
- NZ EPA Chemical Classification and Information Database (CCID)

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 Pty Limited.