

FOR FURTHER INFORMATION, PLEASE REFER TO THE SDS FOLLOWING

Issue: August 20

PRODUCT: White Spirits
Other Names: Stoddart solvent, Blended hydrocarbon, Petroleum derived complex substance
Uses: Industrial solvent: cleaning and degreasing
Signal Word: Danger

UN No.	1300
Dangerous Goods Class	3
Subsidiary Risk	None
Pack Group	III
Hazchem	3Y

Hazardous Nature:	This product is classified as hazardous under HSNO criteria
Hazardous Classification:	3.1C, 6.1E (aspiration), 6.3B, 6.9B, 9.1B
HSNO Approval Number:	HSR002652
Exposure Standards:	TWA: Stoddart solvent (White spirits): 525 mg/m ³ (100 ppm); Ethylbenzene: 434 mg/m ³ (100 ppm); Trimethyl benzene: 123 mg/m ³ (25 ppm); STEL: Ethylbenzene: 543 mg/m ³ (125 ppm)

Physical Characteristics (Typical)

Section 9 of SDS

Appearance	Clear, colourless liquid
Boiling Point/ Range (°C):	155-200
Flash Point (°C):	44
Specific Gravity/ Density (g/mL @ 15°C):	0.7853
Chemical Stability:	Stable at room temperature and pressure.

Product Ingredients

Section 3 of SDS

Naphtha (petroleum), hydrodesulfurised heavy	64742-82-1	100%
Contains: 1,2,4 Trimethyl benzene	95-63-6	2.0-9.0%
1,3,5 -Trimethyl benzene	108-67-8	0.6-4.0%
Ethylbenzene	100-41-4	≤0.1%

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

GHS Pictograms

Section 2 of SDS



For further risk and safety information, please refer to the full SDS.

DEFINITIONS

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, eg. Flammable Goods N.O.S. (Not otherwise specified), UN 1993. Products not classed as Dangerous Goods are designated as not regulated for transport or N/R (non-regulated).
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. Materials classified with risks such as potential for misuse, like flammability, or explosions when heated and ignited, may be both classed as Dangerous Goods and Hazardous Substances.

1. IDENTIFICATION

Product Name:	White Spirits
Other Names:	Stoddart solvent, Blended hydrocarbon, Petroleum derived complex substance
Chemical Family:	Aliphatic, cycloparaffinic, low aromatic hydrocarbons
Recommended Use:	Industrial solvent: cleaning and degreasing
Supplier:	ASCC Limited
Street Address:	112A Bush Road, Rosedale, Auckland, New Zealand
Telephone:	(09) 966 2447
Emergency phone:	0800 243 622 (24 hours) +64 4 917 9888 (Outside NZ)
National Poisons Centre:	0800 764 766

2. HAZARDS IDENTIFICATION**Hazardous Nature**

This product is classified as hazardous under HSNO criteria

Hazardous Classification

3.1C, 6.1E (aspiration), 6.3B, 6.9B, 9.1B

GHS Pictograms

Signal Word Danger

Dangerous Goods Classification 3

Hazard Statements

H226: Flammable liquid and vapour

H304: May be fatal if swallowed and enters airways

H316: Causes mild skin irritation

H373: May cause damage to organs through prolonged or repeated exposure

H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/light/.../equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements

P301+ P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331: Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P370+P378: In case of fire: Use alcohol foam, carbon dioxide or water spray to extinguish

P391 Collect spillage

Storage Statements

P403+P235: Store in a well ventilated place. Keep cool.

P405: Store locked up.

Disposal Statements

P501: Dispose of contents, or container in accordance with local/regional/national/international regulation.

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Naphtha (petroleum), hydrodesulfurised heavy	64742-82-1	100
Contains: 1,2,4 Trimethyl benzene	95-63-6	2.0-9.0
1,3,5 -Trimethyl benzene	108-67-8	0.6-4.0
Ethylbenzene	100-41-4	≤0.1

4. FIRST AID MEASURES

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

Ingestion

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

Eye Contact

Hold eyelids apart and flush the eye with running water for at least 15 minutes. Check for and remove any contact lenses. Continue rinsing. Seek medical attention if irritation persists

Skin/Hair 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.

Inhalation

Move the victim to fresh air and keep at rest in a position comfortable for breathing. Begin artificial respiration if breathing has stopped. Seek medical attention

First Aid facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

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 firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Foam, water spray or fog. Dry chemical, carbon dioxide, sand or earth are suitable for small fires. Do not use water jet. Keep adjacent containers cool by spraying with water.

Hazards from combustion products

Carbon dioxide and carbon monoxide

Specific Hazards

Flammable liquid. May emit toxic fumes upon burning.

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code: 3Y

6. ACCIDENTAL RELEASE MEASURES**Accidental Release Controls**

Clean up spills immediately, using protective equipment. All equipment used when handling spilled product must be grounded. A vapour suppressing foam may be used to reduce vapours.

Emergency Procedures

Prevent material 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 product 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 minimise the effect on ground water
- Contain any spilled liquid with sand or earth
- Recover liquid spills 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 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. Material will accumulate static charge. Use grounding leads to avoid discharge (electrical spark).

Conditions for safe storage

Store in tightly closed original container in a dry, cool and well-ventilated place.

Incompatible materials

Natural Rubber, Butyl Rubber, EPDM, Polystyrene, combustibles, reducing agents

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

The time weighted average (TWA) concentration, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week for this product is: Stoddard solvent (White spirits): 525 mg/m³ (100 ppm); Ethylbenzene: 434 mg/m³ (100 ppm); Trimethyl benzene: 123 mg/m³ (25 ppm). The short-term exposure limit (STEL), which is the maximum allowable exposure concentration at any time is: Ethylbenzene: 543 mg/m³ (125 ppm).

Biological limit values

Ethylbenzene: 0.25 g/g creatinine (sum of mandelic acid and phenylglyoxylic acids in urine at end of shift/end of exposure)

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 or full-face filter mask to protect from overexposure by inhalation.

Recommended Filter Type: Type A filter (organic vapour)

Refer to AS/NZS 1715: *Selection, Use and Maintenance of Respiratory Equipment* and AS/NZS 1716: *Respiratory Protective Devices* for further details on the use of respiratory protective equipment.

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 (e.g. PVC) be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear, colourless liquid
Odour	-	Paraffinic
Odour Threshold	ppm	Not available
Melting Point/Range	°C	< -60
Boiling Point/ Range	°C	155-200
Flash Point	°C	44
Flammability	-	Flammable
Specific Gravity @ 15°C	-	0.7853
Vapour Pressure @ 37.8°C	kPa	≤ 240
Explosive Limits (LEL – UEL)	%	0.7 – 6.5
Vapour Density @ 20°C	kPa	> 1.00
Autoignition Temperature @ 101.325 kPa	°C	280-470
Decomposition Temperature	°C	Not available
Viscosity @ 378°C	mm ² /s	1
pH	-	Not available
Partition Coefficient Log K _{ow}	-	4.76 (estimated)
Percent Volatiles	%	100
Solubility with Water	% w/w	Negligible
Other Solubility	% w/w	Miscible in aromatic and aliphatics
Other Information	-	-

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

Material may produce irritating and highly toxic gases from decomposition by heat and combustion during burning.

Hazardous reactions

Oxidizing agents, mineral acids, halogenated organic compounds and peroxides. Flammable liquid: may form explosive mixtures at temperatures at or above the flashpoint. Will be easily ignited by heat, sparks or flames.

Hazardous Polymerisation

Not anticipated to occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Small amounts of liquid aspirated into the lungs during ingestion, or from vomiting, may cause chemical pneumonitis, or pulmonary oedema. Ingesting any amount of this product will result in headaches, nausea, dizziness, and tracheal burning.

Eye Contact

This product is mildly irritating to eyes, with short lasting discomfort, 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.

Inhalation

This product may be irritating to the respiratory tract. Exposure to large 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 < 0.1% ethylbenzene, which is recognised as a suspected human carcinogen and reproductive toxicant

Other Health Effects Information

Individuals with pre-existing skin or respiratory complaints may be sensitive to this product.

Toxicological Information

Oral / Dermal LD₅₀: LD₅₀ (oral, rat) > 5000 mg/kg (rat); LD₅₀ (Dermal, rat): > 2000 mg/kg

1,2,4 Trimethyl benzene: LD₅₀ (oral, rat) = 3280 mg/kg

Inhalation LC₅₀: LC₅₀ (Inhalation, rat) > 7.63 mg/L/4hr

1,2,4 Trimethyl benzene: LC₅₀ (Inhalation, rat) = 18 mg/L/4 h

Acute Toxicity (6.1A, 6.1B, 6.1C, 6.1D): Not classified as an acute toxicant

Aspiration Hazard (6.1E): May be fatal if swallowed and enters airways.

Respiratory Irritation (6.1E): Not classified

Skin Corrosion/Irritation (8.2A, 8.2B, 8.2C, 6.3A): Causes mild skin irritation

Serious Eye damage/irritation (8.3A, 6.3A): Not classified

Respiratory or Skin Sensitisation (6.5A, 6.5B): Not classified

Germ cell mutagenicity (6.6A, 6.6B): Not classified

Carcinogenicity (6.7A, 6.7B): Not classified

Reproductive Toxicity (6.8A, 6.8B, 6.8C): Not classified

Specific Organ Toxicity (Repeated and Single Exposure) (6.9A, 6.9B): May cause damage to organs through prolonged or repeated exposure.

Narcotic Effects (6.9B): Not classified

12. ECOLOGICAL INFORMATION**Ecotoxicity****Aquatic Toxicity**

Fish toxicity, LC₅₀ (96 hr): LL₅₀ (Pimephale promelas): 8.2 mg/L

Crustacean toxicity (Daphnia Magna), EC₅₀ (48 hr): EL₅₀: 4.5 mg/L

Green algae toxicity, EC₅₀ (72 hr): 3.1 mg/L

Blue-green algae toxicity (Cyanobacteria), EC₅₀ (72 hr): No data available

Persistence/Degradability

77% biodegradation with low bioaccumulation.

Mobility

This product is absorbed by soils, and likely to contaminate ground water and surrounding environment.

Bioaccumulative Potential

Not expected to be bioaccumulative

Other Information

Toxic to aquatic life with long lasting effects.

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 harmful residue and/or fumes and vapours that are flammable. 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 must be disposed as chemical waste in accordance with the local authority.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1300	UN No.	1300	UN No.	1300
Proper Shipping Name	TURPENTINE SUBSTITUTE	Proper Shipping Name	TURPENTINE SUBSTITUTE	Proper Shipping Name	TURPENTINE SUBSTITUTE
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	3Y	Hazchem	3Y	Hazchem	3Y

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3, packing group III.



15. REGULATORY INFORMATION

Country/ Region: New Zealand

Inventory: NZIoC

Status: All components are listed in NZIoC

HSNO Approval: HSR002652: Solvents (Flammable) Group Standard 2017

HSNO/HSWA Controls: Refer to the above Group Standard, Health and Safety at Work Act 2015, www.epa.govt.nz and www.worksafe.govt.nz for further information on controls

Certified Handler: Not required

Tracking: Not required

Restriction to workplace: Not applicable

Signage: Threshold quantity: 1,000 L

Fire extinguishers: Threshold quantity: 500 L

Emergency Response Plan: Threshold quantity: 1,000 L

Secondary containment: Threshold quantity: 1,000 L

Agricultural Compounds and Veterinary Medicines Act 1997 (ACVM): Not applicable

Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable

Stockholm Convention: Not applicable

Rotterdam Convention: Not applicable

16. OTHER INFORMATION

Reasons for Issue: Section 14: subrisk correction

Replaces SDS dated: 20 May 2020

New SDS issue date: 28 August 2020

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

AS/NZS: Standards Australia & Standards New Zealand

BCF: Bioconcentration Factor

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service

CCID: Chemical Classification and Information Database
EC₅₀: Effective Concentration, 50 per cent
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
HSNO: Hazardous Substances and New Organisms Act 1996
HSWA: Health and Safety at Work Act 2015
IARC: International Agency for Research on Cancer
IC₅₀: Half Maximal Inhibitory Concentration
LC₅₀: Lethal Concentration, 50 per cent
LD₅₀: Lethal Dose, 50 per cent
LEL: Lower Explosive Limit
LOAEL: Lowest-observed-adverse-effect level
N/R: Not Regulated
NOAEL: No-observed-adverse-effect-level
NOEC: No Observed Effect Concentration
NZIoC: New Zealand Inventory of Chemicals
NZS 5433 New Zealand Standard Transport of Dangerous Goods on Land
OECD: Organisation for Economic Co-operation and Development
STEL: Short-Term-Exposure Limit
TLV: Threshold Limit Value
TWA: Time-Weighted Average
UEL: Upper Explosive Limit

References:

- Supplier Safety Data Sheets
- EPA CCID <https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/>
- Workplace Exposure Standards and Biological Exposure Indices. 11th Edition, published by WorkSafe New Zealand November 2019. <https://worksafe.govt.nz/topic-and-industry/work-related-health/monitoring/exposure-standards-and-biological-exposure-indices>
- US EPA Toxnet ChemIDPlus: <http://chem.sis.nlm.nih.gov/chemidplus> (August 20)
- OECD eChemPortal Substance Search <https://www.echemportal.org/echemportal/participant/page.action?pageID=9>

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