



SAFETY DATA SHEET

PRODUCT NAME: WHITE SPIRITS (HIGH FLASH) 99%

Issue Date: 14 November 2025

SECTION 1: IDENTIFICATION

Product Name: WHITE SPIRITS (High flash Low aromatics)
Other Names: Turpentine substitute, petroleum spirits, solvent naphtha (petroleum), LAWS
Product Code: ZWSPHF, CWSH20
Uses: Thinner, cleaner.

Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Web: www.hamchem.co.nz Email: sales@hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

SECTION 2: HAZARD IDENTIFICATION



GHS Classifications

Flammable Liquid – Category 4
Aspiration Hazard Category 1
Specific Target Organ Toxicity (single exposure) – Category 3 narcotic effects,
Hazardous to the aquatic environment (chronic) – Category 2

Signal word: DANGER

Hazard Statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H316 Causes mild skin irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
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.

Prevention Statements

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.

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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 mist/vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and protective eye/face protection.
P281	Use personal protection equipment as required.

Response Statements

P314	Get medical advice if you feel unwell.
P308 + P313	If exposed or concerned: Get medical advice.
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.
P303 + P361 + P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P332 + P313	If skin irritation occurs: Get medical advice.
P370 + P378	In case of fire: Use foam, dry chemical or carbon dioxide (CO ₂).
P391	Collect spillage.

Storage Statement

P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.

Disposal Statement

P501	Dispose of product to a landfill in accordance with any local regulations.
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SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Entity	CAS No.	Proportion (% w/w)
Low aromatic solvent	64742-82-1	> 99
Contains:		
1,2,4-Trimethyl benzene	95-63-6	2 - 9
1,3,5-Trimethyl benzene	108-67-8	0.6 - 3
Ethylbenzene	100-41-4	≤ 0.3

SECTION 4: FIRST AID MEASURES

Consult the National Poisons Centre, telephone 0800 764 766 [0800 POISON] or a doctor in every case of suspected poisoning. If medical advice is needed, have product label or container at hand.

INGESTION: Do NOT induce vomiting. Call a Poison Centre or doctor immediately for advice. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

INHALATION: Move person to fresh air and keep warm and at rest until recovered. Ensure those providing assistance are not exposed to vapour hazard. If respiratory irritation, dizziness, nausea or unconsciousness occurs, get immediate medical assistance. If breathing is difficult or has stopped, used mechanical device or mouth to mouth resuscitation.

SKIN: Remove immediately all contaminated clothing and footwear. Wash affected area with plenty of soap and water. If skin irritation occurs, get medical advice. Wash contaminated clothing/footwear before re-use.

EYES: Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.

NOTES TO PHYSICIAN: Treat symptomatically. Causes central nervous system depression. Contact dermatitis may result from prolonged or repeated exposure. Risk of aspiration into lungs resulting in chemical pneumonitis which may be fatal. Consider gastric lavage with protected airway, and administration of activated charcoal.

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SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 41 to 42°C (typical)

FLAMMABLE LIMITS: LFL: 0.7 % v/v UFL: 6.5 % v/v

EXTINGUISHING MEDIA: Use dry chemical powder, carbon dioxide, sand or earth for small fires only. Use water fog or mist or alcohol-resistant foam for large fires. Do NOT use water in a jet. Use water spray to disperse vapours.

FIRE & EXPLOSION HAZARDS: Above flash point, vapour-air mixtures are explosive within the flammable limits given above. Vapour is heavier than air and may travel across ground and reach remote ignition sources causing a flashback fire danger. Avoid breathing smoke. Prevent extinguishing water from getting into the aquatic environment.

SPECIFIC HAZARDS: Cool fire exposed containers with large quantities of water.

FIRE-FIGHTING EQUIPMENT: Wear personal protection equipment and in enclosed spaces, self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILLS: Flammable liquid. Vapour forms explosive mixture with air. Isolate hazard area and keep unnecessary and unprotected people away from area. Stay upwind and keep out of low lying areas. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Shut off leak if safe to do so. Remove or isolate ignition sources. Contain spill. Avoid run off into drains or sewers. Do not contaminate watercourses or the ground. Take precautions against static discharge. Bond or ground (earth) all equipment. Ventilate contaminated area. For small spills, absorb with an appropriate material, e.g. vermiculite, and dispose of waste safely in a labelled sealed container for recovery or disposal.

For large spills (more than a drum), recover liquid and transfer by mechanical means to labeled salvage tank that can be sealed for recovery or disposal of product. Allow residues to evaporate. Water can be used to disperse vapours and to clean spill area although prevent water from entering sewers or drains. Remove any contaminated soil and dispose of safely by waste management company. Large spills to waterways will require specific actions such as containment booms and removal of product from surface of water. Seek advice of specialist.

If contamination of drains, sewers or waterways occurs immediately notify Emergency Services (111).

DISPOSAL: Dispose of contaminated waste or product to an approved enclosed controlled burner or incinerator, or to hazardous landfill in accordance with local regulations.

SECTION 7: HANDLING & STORAGE

HANDLING: Read label before use. Use only in well-ventilated areas. Avoid breathing vapours or direct contact with product. Remove ignition sources. Avoid sparks. Electrostatic charge may be generated during pumping with risk of fire. Restrict line viscosity to avoid generation of electrostatic discharge. Take precautions to use bonded or grounded (earthed) equipment. No Smoking. Do not use compressed air for filling, discharging or handling. Keep container closed when not in use. Wear personal protective equipment to prevent breathing of and contact with product. Wear suitable chemical resistant gloves and protect eyes from splashes. Wash hands and exposed skin after handling.

STORAGE: Suitable storage materials are mild steel and stainless steel. Suitable container paints are epoxy paint and zinc silicate. Ensure all storage areas have adequate fire-fighting equipment. Store in closed original container in a secure cool dry well-ventilated place, away from sunlight, ignition sources, heat, oxidizing agents, and out of reach of children, and away from food, drink and animal foodstuffs. Take precautions to avoid accumulation of vapours in pits and confined spaces. Avoid contact with natural rubber, butyl rubber, EPDM and polystyrene.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

EXPOSURE GUIDELINES: NZ Workplace Exposure Standard (WES) have been set for a component in this substance.

WES-TWA

WES-STEL

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PRODUCT NAME: WHITE SPIRITS (HIGH FLASH) 99%Ethylbenzene 100 ppm (434 mg/m³) 125 ppm (543 mg/m³)**Manufacturers recommended limit for product (mixture):**Mineral spirits 150 -200 350 mg/m³ as total hydrocarbons

ENGINEERING CONTROLS: Use only in a well-ventilated area. A half-face filter mask suitable for organic gases and vapours (Type A filter material) may be suitable for low concentration level exposures. Otherwise, use full-piece organic vapour respiratory protective equipment. Where air-filtering respirators are unsuitable (e.g. air-borne concentrations are high, risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Wear impervious antistatic protective clothing including safety shoes or boots. Wear appropriate chemical resistant gloves, e.g. nitrile. Avoid contact with eyes. Wear chemical goggles or safety glasses with side shields, if splash or aerosol/mist exposure risk. Refer to the relevant AS/NZ standards for appropriate personal protective equipment. Routinely wash work clothing and protective equipment to remove contaminants. Discard any protective equipment, clothing or footwear that cannot be cleaned.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear, colourless
Odour:	Paraffinic
Boiling point (°C):	162 - 192
Flash point (°C):	41 – 42 (typical)
Flammability limits in air (%v/v):	0.7 to 6.5
Auto ignition temperature (°C):	> 200 [296 by ASTM E-659 and 245 by DIN 51794]
Vapour pressure (kPa):	typical 110 @ 0°C typical 370 @ 20°C typical 1800 @ 50°C
Density at 15°C, g/cc:	0.72
Solubility in water:	Negligible
Solubility in other solvents:	miscible in aromatic and aliphatic solvents
pH:	Not available
Vapour density (air =1):	Not determined
Evaporation rate (nBuAc =1):	0.16
n-octanol/water partition coefficient (log POW)	3.7 – 6.7
Kinetic viscosity:	typically 1.08 mm ² /sec @ 25 °C
Surface tension:	typical 26.4 Mn/m @ 20 °C
Coefficient of expansion:	typical 0.0008 @ 20 °C
Dielectric constant:	typical 2.1 @ 20 °C
Refractive index:	typical 1.434 @ 20 °C
Saturated vapour concentration (in air):	21 g/m ³ (estimated value)
Volatile Organic Carbon (VOC) %:	85

SECTION 10: STABILITY & REACTIVITY

STABILITY (CONDITIONS TO AVOID): Stable under normal storage and use conditions. Avoid heat, sparks, open flames and other ignition sources.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition at ambient temperatures. Thermal decomposition highly dependent on conditions. Decomposition products may include mixtures of airborne solids, liquid and gases including carbon dioxide, carbon monoxide and other organic compounds.

HAZARDOUS POLYMERIZATION: Not known to occur.

SECTION 11: TOXICOLOGICAL INFORMATION

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POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

INGESTION: Aspiration into the lungs can cause chemical pneumonitis which can be fatal.

INHALATION: May cause irritation of upper respiratory tract. Inhalation of high concentrations may cause central nervous system depression resulting in symptoms including headaches, dizziness and drowsiness. Prolonged continuing exposure may result in unconsciousness and/or death.

SKIN CONTACT: Moderately irritating to skin.

EYE CONTACT: Minimally irritating.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: If inhaled may cause adverse effects through prolonged or repeated exposure. May cause central nervous system depression. Symptoms of overexposure can include headache, dizziness and drowsiness. Prolonged or repeated exposure to high concentrations have resulted in adverse effects to kidneys and in hearing loss in laboratory rats. Solvent abuse and noise interaction in a work environment may cause hearing loss.

CANCER INFORMATION: The product contains ethylbenzene a suspected human carcinogen and may be present at > 0.1% the cut off concentration for classification of the product.

TERATOLOGY (BIRTH DEFECTS) AND REPRODUCTIVE DEFECTS: The product contains ethylbenzene a suspected of damaging fertility or the unborn child, and may be present at > 0.1% the cut off concentration for classification of the product.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Not a mutagen.

Toxicological data: No available for mixture.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: This product has been classified as being toxic in the aquatic environment with long-lasting effects. Avoid release to environment.

MOVEMENT AND PARTITIONING: Product has minimal solubility in water. Highly volatile and will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

DEGRADATION AND PERSISTENCE: Has potential to bio accumulate and most components are rapidly biodegradable. Product is mobile in soil and may contaminate groundwater. Avoid contamination of drains and waterways. Oxidises by photo-chemical reactions in air.

ECOTOXICOLOGY: No EEL has been set for this substance.

Ecotoxicity data: Not available for product.

SECTION 13: DISPOSAL CONSIDERATIONS

Recover and recycle product whenever possible. Dispose of waste in accordance with Regional Authority or local council bylaws. Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send clean dry drums to recycler or metal scrap reclaimer. Do not use empty drums for storing other products.

SECTION 14: TRANSPORT INFORMATION

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

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PRODUCT NAME: WHITE SPIRITS (HIGH FLASH) 99%

UN Number: 1300
Proper Shipping name: TURPENTINE SUBSTITUTE
Dangerous Goods Class: 3 – Flammable Liquid
Packing group: III
Hazchem Code: 3[Y]E
Marine Pollutant: Yes

SECTION 15: REGULATORY INFORMATION

Classified as hazardous under the HSNO Act 1996 according to criteria of Minimum Degrees of Hazard (Threshold) Regulations, 2001.

EPA New Zealand Approval Code: HSR002649

HSNO Classifications: 3.1B, 6.1D, 6.3B, 6.9B, 9.1B

SECTION 16: OTHER INFORMATION**Key to abbreviations:**

CAS No. Chemical Abstracts Service Number
EPA Environmental Risk Management Authority
HSNO Hazardous Substances & New Organisms
STEL Short Term Exposure Limit
TWA Time Weighted Average
WES Workplace Exposure Standard

References:

Chemical Classification and Information database; www.epa.govt.nz
Supplier Safety Data Sheet

End of SDS.