

# SAFETY DATA SHEET

**PRODUCT NAME:** WHITE SPIRITS (Low Flash)

Issue Date: May 23

## IDENTIFICATION

**Product Name:** WHITE SPIRITS (Low flash)  
**Other Names:** Dearomatised hydrocarbons, Solvent X55  
**Product Code:** CWS20, ZWSPIR  
**Uses:** Solvent  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton  
 Phone: 079744971 Web: [www.hamchem.co.nz](http://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

## HAZARD IDENTIFICATION



### GHS Classifications

Flammable Liquid – Category 2  
 Acute Toxicity (Oral) – Category 4  
 Aspiration Hazard – Category 1  
 Eye Irritation – Category 2  
 Specific Target Organ Toxicity (Repeated Exposure) – Category 1  
 Hazardous to the Aquatic Environment (Chronic) – Category 1

**Signal word:** DANGER

### Hazard Statements

H225 Highly flammable liquid and vapour.  
 H332 Harmful if inhaled  
 H304 May be fatal if swallowed and enters airways  
 H319 Causes serious eye irritation  
 H372 Causes damage to organs through prolonged or repeated exposure  
 H410 Very toxic to aquatic life with long-lasting effects

### Prevention Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing fume/gas/mist/vapours/spray  
 P264 Wash hands thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/clothing and eye/face protection.

### Response Statements

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or Doctor.

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- P331 Do NOT induce vomiting  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P332 + P313 If skin irritation occurs: Get medical advice.  
P362 Take off contaminated clothing and wash before re-use  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTRE or Doctor if you feel unwell  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention  
P370 + P378 IN CASE OF FIRE: Use foam, dry chemical powder or carbon dioxide (CO<sub>2</sub>) to extinguish.  
P391 Collect spillage

**Storage Statement**

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

**Disposal Statement**

- P501 Dispose of contents/container to an approved waste facility in accordance with local regulations.

**COMPOSITION & INFORMATION ON INGREDIENTS**

Chemical Entity	CAS No.	Proportion (% w/w)
Naphtha (petroleum), hydrotreated light *This is a complex mixture that contains:	64742-49-0	100
Cyclohexane	110-82-7	20 – 30
Heptane	142-82-5	60 – 70
Methylcyclohexane	108-87-2	10 – 20
n-Hexane	110-54-3	1 – 5
Octane	111-65-9	1 – 5

**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 helping 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. Risk of aspiration into lungs resulting in chemical pneumonitis which may be fatal. This product or a component, may be associated with cardiac sensitization following very high exposures (well above occupational exposure limits) or with concurrent exposure to high stress levels or heart stimulating substances like epinephrine. Administration of such substances should be avoided.

**FIRE FIGHTING MEASURES**

**FLASH POINT:** -15°C

**FLAMMABLE LIMITS:** LFL: 1.0% v/v UFL: 7.0 % 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.

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**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.

**ACCIDENTAL RELEASE MEASURES**

**SPILLS:** Highly 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. Ground or bond (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 labelled 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.

**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 and coatings are carbon steel, stainless steel, polyethylene, polypropylene, polyester and Teflon. 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.

**EXPOSURE CONTROLS & PERSONAL PROTECTION**

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

	WES-TWA	WES-STEL
Cyclohexane	100 ppm (350 mg/m <sup>3</sup> )	300 ppm (1050 mg/m <sup>3</sup> )
Heptane	400 ppm (1640 mg/m <sup>3</sup> )	500 ppm (2050 mg/m <sup>3</sup> )
n-Hexane	20 ppm (72 mg/m <sup>3</sup> )	
Methylcyclohexane	400 ppm (1610 mg/m <sup>3</sup> )	
Octane	300 ppm (1400 mg/m <sup>3</sup> )	375 ppm (1750 mg/m <sup>3</sup> )

**Manufacturers recommended limit for product (mixture):**

Naphtha (petroleum) hydrotreated light 1000 mg/m<sup>3</sup> 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

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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.

**PHYSICAL & CHEMICAL PROPERTIES**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear, colourless
<b>Odour:</b>	Mild petroleum
<b>Boiling point (°C):</b>	78 - 110
<b>Flash point (°C):</b>	-15
<b>Flammability limits in air (%v/v):</b>	1.0 to 7.0
<b>Auto ignition temperature (°C):</b>	> 200
<b>Vapour pressure (kPa):</b>	8.65 @ 20°C 19.44 @ 38°C 31.47 @ 50°C
<b>Density at 15°C, g/cc:</b>	0.72
<b>Solubility in water:</b>	Negligible
<b>pH:</b>	Not available
<b>Vapour density (air =1):</b>	Not determined
<b>Evaporation rate (nBuAc =1):</b>	6

**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:** Dependent on conditions under which decomposition occurs. No decomposition at ambient temperatures.

**HAZARDOUS POLYMERIZATION:** Not known to occur.

**TOXICOLOGICAL INFORMATION**

**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. May cause central nervous system effects. Symptoms of overexposure include fatigue, confusion, headache, dizziness, and drowsiness. Very high exposures may result in abnormal heart rhythm (arrhythmias).

Co-exposure with heart-stimulating substances such as epinephrine, nasal decongestants, asthma drugs or cardiovascular drugs may initiate arrhythmias.

**SKIN CONTACT:** Moderately irritating to skin.

**EYE CONTACT:** Mild, short-lasting irritant. Symptoms can include burning sensation, redness, swelling, and/or blurred vision.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** If inhaled may cause adverse effects through prolonged or repeated exposure. May cause central nervous system effects. Symptoms of overexposure include fatigue, confusion, headache, dizziness, and drowsiness.

**CANCER INFORMATION:** Not classified as carcinogen.

**TERATOLOGY (BIRTH DEFECTS) AND REPRODUCTIVE DEFECTS:** Not classified.

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

**Toxicological data:** No available for mixture.

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### 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:** Not expected to bio accumulate significantly 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:**

Cyclohexane	Striped bass	LC50 (96hr)	8.3 mg/L
	<i>Daphnia magna</i>	EC50 (48 hr)	3.78 mg/L
Methylcyclohexane	Striped bass	LC50 (96hr)	5.8 mg/L
	<i>Daphnia magna</i>	EC50 (48 hr)	1.56 – 2.46 mg/L
n-Hexane	Fathead minnow	LC50 (96hr)	2.50 mg/L
	<i>Daphnia magna</i>	EC50 (48 hr)	3.9 mg/L

### DISPOSAL CONSIDERATIONS

Recover and recycle product whenever possible. Dispose of waste in accordance with Regional Authority or local council bylaws. Product is suitable for burning in approved controlled burner or incineration at very high temperatures. 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.

### TRANSPORT INFORMATION

**UN Number:** 3295  
**Proper Shipping name:** Hydrocarbons, Liquid, N.O.S  
**Dangerous Goods Class:** 3  
**Packing group:** II  
**Hazchem Code:** 3YE  
**Marine Pollutant:** Yes

### REGULATORY INFORMATION

**EPA New Zealand Approval Code:** HSR002650 – Solvents (Flammable) Group Standard 2020

**HSNO Hazard Classification:** 3.1B, 6.1D, 6.1E, 6.4A, 6.9A, 9.1A

Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for Controls and Conditions.

### 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](http://www.epa.govt.nz)  
Supplier Safety Data Sheet

**End of SDS.**

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