

Code	Description	Size	Colour
37013	Gorilla Solvent Cleaner	1Lt	N/A
20125	Gorilla Solvent Cleaner	4 Lt	N/A

Recommended use:		Degreasing Solvent
HSNO group standard:		HSR002528
UN number, shipping name and packaging group:		1300, Turpentine Substitute
Supplier contact details:	Holdfast NZ Ltd	Freephone: 0800 70 10 80
	14 Avalon Drive	Phone: (07) 847 5540
	Nawton	Fax: (07) 847 0324
	Hamilton 3200	Email: sales@holdfast.co.nz
	New Zealand	Website: www.holdfast.co.nz
POISON CENTRE NUMBER: 0800 764 766 (24 hours)		

2. Hazards Identification

2.1 Hazardous Substances and New Organisms (HSNO) classification:

Classification	Hazard statement
3.1C	Flammable Liquids: medium hazard
6.3B	Mildly irritating to the skin
6.4A	Irritating to the eye
9.1B	Very ecotoxic in the aquatic environment
9.1C	Harmful in the aquatic environment

2.2 Symbols:

DANGER



2.3 Precautionary Statements:

Flammable liquid and vapour.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure
Toxic to aquatic life.

3. Composition/Information on Ingredients

3.1 Information on the ingredients used in the substance:

Ingredient	CAS No.	Individual HSNO classification	Concentration (%)
Hydrocarbon Solvents	108-67-8	3.1C, 6.3B, 6.4A, 9.1B (crustacean), 9.1C (algal, fish)	>60%

4. First Aid Measures

4.1 Skin contact:

Wash exposed area with mild soap and water. Get medical attention if irritation develops or persists.

4.2 Eye contact:

Immediately flush eyes with plenty of water for 15 minutes. If irritation persists, seek medical attention.

4.3 Inhalation:

Remove victim from area of exposure. If unconscious, give oxygen. Give artificial respiration if not breathing. Get immediate medical attention.

4.4 Ingestion:

Do not Induce Vomiting. Get immediate medical attention.

4.5 General advice and advice for physicians:

Exposure to high concentrations of this material (e.g., in enclosed spaces or with deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

5. Fire-Fighting Measures**5.1 Extinguishing media:**

Dry chemical, foam, or carbon dioxide.

5.2 Special hazards due to combustion:

Vapour accumulations may flash and/or explode if ignited. Keep ignition sources, open flames, ect, away from those fumes.

5.3 Advice for fire-fighters:

Proper respiratory equipment to protect against the hazardous effects of combustion products is recommended. Water in a straight hose stream may cause fire to spread and should be used as a cooling medium only.

5.4 Hazchem code:

No data.

6. Accidental Release Measures**6.1 Personal precautions:**

Wear gas mask with filter. Wear gloves, protective goggles and protective clothing. Maintain normal hygiene.

6.2 Environmental precautions:

Dam up the liquid spill. Use appropriate containment to avoid environmental contamination.

6.3 Methods for cleaning up:

Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways.

6.4 Disposal:

Contain material as described above and call the local fire or police department for immediate emergency assistance.

7. Handling and Storage**7.1 Handling:**

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapours can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes.

7.2 Storage:

Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

8. Exposure Controls/Personal Protection**8.1 Exposure limits:**

CAS no.	Substance or ingredient	WES-TWA	WES-STEL
108-67-8	Hydrocarbon Solvents	No data	No data

8.2 Engineering Controls:

General (mechanical) room ventilation is considered satisfactory in enclosed spaces. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

8.3 Exposure controls:

Control	Protective measure
Eye	Wear safety glasses with side shields or goggles when handling this material.
Respiratory	Use NIOSH/MSHA approved respirators.
Skin	PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.

9. Physical and Chemical Properties

9.1 General substance properties:

Property	Details
Appearance	Clear Colourless Liquid
Odour	Solvent odour
pH	No data.
Vapour pressure	No data.
Viscosity	No data.
Boiling Point	Boils over a range, typically 150 - 190 C
Volatile materials	No data.
Freezing/melting point	No data.
Solubility	No data.
Specific gravity/density	0.84
Flash point	400 C
Danger of explosion	No data.
Auto-ignition temperature	No data.
Upper and lower flammability limits	No data.
Corrosiveness	No data.

10. Stability and Reactivity

10.1 Stability:

Stable under normal conditions.

10.2 Conditions to avoid:

Exposure to excessive heat, open flames and sparks. Avoid conditions that favour the formation of excessive mists and/or fumes.

10.3 Incompatible materials to avoid:

Avoid oxidising agents.

10.4 Hazardous decomposition products:

Oxides of Carbon when burned.

11. Toxicological Information

11.1 Summary of Toxicity

This product is considered harmful.

11.2 Acute toxicity:

Test	Data and symptoms of exposure
Oral	The calculated LD ₅₀ for the final product is 3,280 mg/kg (rat).
Dermal	No evidence of dermal toxicity.
Inhaled	The calculated LD ₅₀ for the final product is 18g/m ³ /4h = 18mg/L/4h (rat)
Eye	Causes moderate eye irritation (6.4A).
Skin	The calculated LD ₅₀ for the final product is Moderate (rabbit).

11.3 Chronic toxicity:

Test	Data and symptoms of exposure
Sensitisation	Species: Rabbit – Result: The test substance was applied at 0.1 ml to the conjunctival sac of one eye of each of 6 rabbits (sex not reported) Mild iritis was observed in most eyes at 1 hour; slight corneal opacity was observed in 2 eyes at 24 hours, and 1 eye at 48 hours. Moderate conjunctival irritation was present in most eyes at 1 and 24 hours, but was slight at 48 and 72 hours. All eyes were normal by 7 days.
Mutagenicity	Final product not considered mutagenic. No constituent is considered mutagenic.
Carcinogenicity	Final product not considered carcinogenic. No constituent considered carcinogenic.
Reproductive/developmental	Final product not considered a reproductive/developmental toxicant. No constituent is considered a reproductive/developmental toxicant.
Systemic/targeted organs	No effects known.

12. Ecological Information

12.1 Ecological properties

Ecology	Ecological data
Aquatic ecotoxicity	No data.
Soil ecotoxicity	No data.
Terrestrial vertebrate	No data.
Terrestrial invertebrate	No data.
Mobility	No data.
Degradability	No data.

13. Disposal Considerations

13.1 Disposal methods:

This product may be disposed of in a landfill provided this product will be kept separated from contact with explosives, oxidisers and ignition sources at all times. This product may be disposed of by burning in an incineration facility. This product may be disposed of by purging. Further details can be provided by local and regional authorities.

13.2 Disposal restrictions:

The product must not be disposed of in a landfill or purged within range of legally located persons and places, where upon ignition, would expose them to more blast pressure and heat radiation than described in regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Burning must be managed to the performance requirements of regulation 6(3)(b) of the Hazardous Substances (Disposal) Regulations 2001. Disposal of this product by landfill, burning or purging must not exceed any relevant exposure limits and/or environmental exposure limits set for the substance or any of its components. Further details can be provided by local and regional authorities.

13.3 Special precautions for disposal:

No data.

14. Transport Information

14.1 Dangerous goods transport information:

Identification	Details	Identification	Details
UN number	1300	Proper shipping name	Turpentine Substitute
UN class	3.1C	Subsidiary risk	9.1
UN packing group	III	Hazchem code	3(Y)E

14.2 Transport provisions by land according to the Standard for the Transport of Dangerous Goods on Land (NZS 5433):

Special provision codes 190, 327, 344, 625. When using combination packages do not pack more than 1 L per inner packaging for liquids. Packages should be ≤30 kg.

14.3 Transport provisions by sea according to the International Maritime Dangerous Goods (IMDG) code:

Special provision codes 190, 327, 344, 625. When using combination packages do not pack more than 1 L per inner packaging for liquids. Packages should be ≤30 kg.

14.4 Transport provisions by air according to International Civil Aviation Organization (ICAO) Technical Instructions:

Special provision codes A145, A167, A802. Packages should be ≤30 kg.

15. Regulatory Information

15.1 HSNO approval number and Group Standard:

HSR002528

15.2 Group Standard conditions and other regulations:

Condition	Requirement
MSDS	Safety data sheet must be available to a person handling the substance within 10 minutes.
Labelling	Never remove or deface label.
Emergency plan	Required when storing >3,000 L.
Approved handler	Required when storing >3,000 L.
Tracking	Not required.
Bunding and secondary containment	Required when storing >3,000 L.
Signage	Required when storing >3,000 L.
Test certificate	Required when storing >3,000 L.
Flammable zone	Required when storing >3,000 L.
Fire extinguisher	Required when storing >3,000 L.

16. Other Information

16.1 Date of preparation or revision:

Revised 4th December 2013. Format updated.

16.2 Abbreviations:

Abbreviation	Description
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CAS number	Number assigned to chemical in the Chemical Abstracts Service registry
HAZCHEM code	Code used by fire-fighters to determine correct method of action in the case of fire
HSNO	Hazardous Substances and New Organisms (Act)
ICAO Technical Instructions	International Civil Aviation Organization Technical Instructions
IMDG code	International Maritime Dangerous Goods code controlled by the International Maritime Organization (IMO)
LC ₅₀	Lethal concentration 50% - concentration fatal to 50% of the tested population
LD ₅₀	Lethal dose 50% - dose fatal to 50% of the tested population
NZS 5433	New Zealand Standard 5433 (Standard for the Transport of Dangerous Goods on Land)
SDS	Safety data sheet
STEL	Short term exposure limit
TWA	Time weighted average (typically measured as 8 hours)
UN number	United nations number
WES	Workplace exposure standard

16.3 References

Chemical properties and HSNO classifications derived from the New Zealand chemical classification information database (CCID). www.epa.govt.nz.

Workplace exposure limits derived from Workplace Exposure Standards and Biological Exposure Indices 7th Edition. www.mbie.govt.nz.

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