SOLVENT SUPPLIES LTD

33 Miro Street
Otaki NZ

Website: www.solventsupplies.co.nz
Email: support@solventsupplies.co.nz

Date: April 2024

Section 1: Identification of the Material and Supplier

Product Name: Polyurethane Thinner
Product Use: Thinner for professional use
Company Name: Solvent Supplies Limited
Address: 33 Miro Street, Otaki, New Zealand

Email: support@solventsupplies.co.nz

Emergency Telephone: **Police, Fire And Ambulance: 111**

New Zealand: **0800 737 363 Monday to Friday 8.00am – 4.30pm**
New Zealand Poisons Centre: 0800 764 766

Section 2: Hazards Identification

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.
Classified as a Dangerous Good according to NZS 5433
Classified as hazardous according to criteria in the HS (Minimum Degrees of Health) Regulations 2001.
EPA New Zealand Approval Code: HSR002662

HSNO Hazard Classification:

Flammable liquids:	Category 3.1B
Acute dermal toxicity:	Category 6.1E
Acute inhalation toxicity:	Category 6.1E
Skin corrosion/irritation:	Category 6.3A
Serious eye damage/eye irritation:	Category 6.4A
Toxicity for reproduction:	Category 6.8B
Target Organ Systemic Toxicant – Repeated Exposure:	Category 6.9B
Aspiration toxicity:	Category 6.1E
Acute aquatic toxicity:	Category 9.1C

Pictograms:

Signal Word: **DANGER**

Hazard statements:

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H313	Maybe harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.

Precaution Statements

P201	Obtain special instructions before use.
P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
N/A	If swallowed: Immediately call a poison centre or doctor.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
N/A	If exposed or concerned: Get medical advice/attention.
N/A	Do NOT induce vomiting.
N/A	If eye irritation persists: Get medical advice/attention.
P273	Avoid release to the environment.
P280	Wear protective clothing, gloves and eye/face protection.

Other hazards which do not result in classification:
Unknown.

Section 3: Composition/Information on Ingredients

Chemical Ingredient:	CAS No:	Concentration:	GHS Hazardous:
Xylene	1330-20-7	30-40%	✓
Ethyl acetate	141-78-6	20-30%	✓
n-Butyl acetate	123-86-4	10-20%	✓
Ethylbenzene	100-41-4	5-10%	✓
Isopentyl acetate	123-92-2	5-10%	✓
2-methylbutyl acetate	624-41-9	1-3%	✓
Toluene	108-88-3	0.1-0.3%	✓

Non-regulated ingredients: 0.0-0.1%

Section 4: First Aid Measures

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

Eye Contact:	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding eyelids apart. Seek medical advice.
Skin Contact:	Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Was skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.
Inhalation:	Avoid inhalation or vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or has stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
Ingestion:	If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vomiting. Keep at rest.

Symptoms/Effects, Acute and Delayed:

Inhalation:	May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeat and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ingestion:	May result in gastrointestinal distress.
Skin or eye contact:	May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.
Notes to physician:	No data available on this product. See section 3 and 11 for hazardous ingredients found in the product.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:	Universal aqueous film-foaming foam. Carbon dioxide (CO_2). Dry chemical and water spray.
Unsuitable Extinguishing Media:	High volume water jet.
Specific Hazards:	Highly flammable liquid and vapour. Vapours may form explosive mixtures with air. Remove all sources of ignition. Solvent vapours are heavier than air and may spread along floors. Do not allow run-off from fire-fighting to enter drains or water courses. Never use pressure to empty container – container is not a pressure vessel. Always keep in containers of same material as the original.
Fire-fighting equipment:	Wear as appropriate. Full protective flameproof clothing, Wear self-contained breathing apparatus for fire-fighting if necessary. In the event of fire, cool tanks with water spray.

Section 6: Accidental Release Measures

Personal Precautions:	Keep in a well-ventilated place. Keep away from sources of ignition. Comply with safety directives (see sections 7 and 8). Do not inhale vapours.
Environmental Precautions:	Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste systems.
Methods for cleaning up:	Contain and collect spillage with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local authorities. Clean preferably with a detergent and avoid the use of solvents.

Section 7: Handling and Storage

Handling:	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electronically: always use grounded leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid skin and eye contact. Do not breathe vapours or spray mists. Do not smoke, eat or drink in the application area.
Storage:	Observe label precautions. Refer to Technical Data Sheet (TDS) for further information about storage temperature. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Suitable container and packaging materials for safe storage:	Always keep in containers made of the same material as the supply container.

Section 8: Exposure Controls/Personal Protection

Health Exposure Guidelines:
NZ Workplace Exposure Standards (WES) has been set for components in this product.

Chemical Name	WES-TWA	WES-STEL
Xylene:	TWA	50 ppm
	TWA	217 mg/m3
Ethyl Acetate:	TWA	200 ppm
	TWA	720 mg/m3
n-Butyl Acetate:	TWA	150 ppm
	STEL	200 ppm

	STEL	950 mg/m3
	TWA	713 mg/m3
Ethylbenzene:	TWA	100 ppm
	STEL	125 ppm
	STEL	543 mg/m3
	TWA	434 mg/m3
Isopentyl Acetate:	TWA	100 ppm
	TWA	532 mg/m3
Toluene:	TWA	50 ppm
	TWA	188 mg/m3

Engineering Measures:	Provide adequate ventilation. This should be achieved by a good general extraction and – if practically feasible – by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.
Glossary:	CEIL: Ceiling Exposure Limit STEL: Short Term Exposure Limit TWA: Time Weighted Average
Personal Protective Equipment (PPE):	Personal Protective Equipment should be worn to prevent contact with eyes, skin or clothing.
Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Eye Protection:	Use safety eyewear designed to protect against splash of products.
Hand Protection:	The breakthrough time of gloves is unknown for the product itself. The glove material given is recommended on basis of the substances in the preparation.

Chemical Name:	Glove Material:	Glove Thickness:	Break Through Time
Xylene:	Nitrile rubber	0.33 mm	30 MIN
	Viton (R) ®	0.7 mm	480 MIN
Ethyl Acetate:	Nitrile rubber	0.33 mm	10 MIN
	Viton (R) ®	0.7 mm	480 MIN
n-Butyl Acetate:	Nitrile rubber	0.7 mm	10 MIN
	Viton (R) ®	0.33 mm	30 MIN

The protective glove should be checked in each case for their work specific suitability e.g. mechanical stability, product compatibility and antistatic properties. When the intended use is for spray application, a nitrile glove of the chemical resistance group 3 (e.g. Dermatril ®glove) is to be used. After contamination, the glove has to be changed. If immersing the hands into the product is not avoidable (e.g. maintenance work) a butyl or fluorocarbon rubber glove should be used. When skin exposure may occur to materials specified in section 3 of this SDS, advice should be sought from the glove supplier as to appropriate type to use with this product and the permeation breakthrough times. Care should be taken when working with sharp edged articles as these can easily damage the gloves and make them ineffective.

The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Damaged gloves or those showing signs of wear should be replaced immediately.

Skin and body protection
Wear suitable protective clothing. Personnel should wear antistatic clothing made of nature fibre or of high temperature resistant synthetic fibre.

Hygiene measures
Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use organic solvents.

Section 9: Physical and Chemical Properties

Property	Unit of Measurement	Typical Value
Appearance/Form:	-	Liquid
Colour:		Clear
Odour:	-	Characteristic Solvent
Odour Threshold:	-	No data available
pH:		Not applicable
Melting Point/Freezing Point:	°C	Not applicable
Flash Point:	°C	13 (EIN ISO 3679)
Evaporation rate:	nBuAc=1	Slower than Ether
Flammability:	Solid, gas	No data available
Upper Explosion Limit:		11.4%
Lower Explosion Limit:		1%
Vapour Pressure @ 20°C:	hPa	33.9
Solubility:		Moderate
Vapour Density:	air=1	No data available
Density:	g/cm3	0.88 (DIN 53217/ISO 2811)
Partition coefficient:	n-octanol/water	No data available
Auto-ignition temperature:	°C	360 (DIN 51794)
Decomposition temperature:	°C	No data available
Viscosity:	°C	<20 s (ISO 2431-1993 6 mm)

Section 10: Stability and Activity

Chemical Stability:	Stable.
Conditions to avoid:	Stable under recommended storage and handling conditions (see section 7).
Materials to avoid:	Keep away from strong oxidizing agents, strong alkaline and strong acid materials in order to avoid exothermic reactions.

Hazardous decomposition product:	When exposed to high temperatures, may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke and oxides of nitrogen.

Section 11: Toxicological Information

Potential Health effects: This section includes possible adverse effects which could occur if this product is not handled in the recommended manner.

Inhalation:	May cause nose and throat irritation. My cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion and unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain damage and nervous system damage.
Ingestion:	May result in gastrointestinal distress.
Skin or eye contact:	May cause irritation of the eyes. Repeated and prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Delayed and immediate effects and chronic effects from short/long term exposure:

Acute oral toxicity:	Not hazardous.
Acute dermal toxicity:	**Xylene:** Category 4 **Ethylbenzene:** Category 4 % of unknown composition: 2%
Skin corrosion/irritation:	**Xylene:** Category 2 **Ethyl Acetate:** Category 3 **n-Butyl Acetate:** Category 3 **Isopentyl Acetate:** Category 3 **2-Methylbutyl Acetate:** Category 3 **Toluene:** Category 2
Serious eye damage/irritation:	**Xylene:** Category 2A **Ethyl Acetate:** Category 2A
Respiratory sensitization:	Not classified according to GHS criteria.
Skin sensitization:	Not classified according to GHS criteria.
Germ cell mutagenicity:	Not classified according to GHS criteria.
Carcinogenicity:	Not classified according to GHS criteria.
Toxicity for reproduction:	**Toluene:** Category 2
Target Organ Systemic Toxicant – single exposure:	Not classified according to GHS criteria.
Target Organ Systemic Toxicant – repeated exposure:	No data available.
Aspiration toxicity:	**Xylene:** Category 1 **Ethylbenzene:** Category 1 **Toluene:** Category 1

Numerical measures of toxicity (acute toxicity estimation (ATE) etc):	No information available.
Symptoms related to the physical, chemical and toxicological characteristics:	Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Through skin absorption, solvents can cause some of the effects described here. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Section 12: Hazard Identification

Product contains environmentally hazardous substances and product is not classified per GHS.

Eco-Toxicity effects:	There is no data available on this product. The product should not enter drains and watercourses.
Acute toxicity:	**n-Butyl Acetate:** Category 3 **Ethylbenzene:** Category 2 **Xylene:** Category 9.4C % of unknown composition: 2% **Eco-toxic to terrestrial invertebrates.**
Persistence and degradability:	No information available.
Bio-Accumulation:	No information available.
Mobility in soil:	No information available.
Other Adverse Effects:	No information available.

Section 13: Disposal Considerations

Disposal:
Dispose of in accordance with local regulations.

Disposal considerations:
A disposal process that converts the waste into energy is recommended. If this is not possible, the hazardous waste must be disposed of by incineration.

Section 14: Transport Information

This product is not classified as a Dangerous Goods.
Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

NZS5433:

UN No	1263
Proper Shipping Name:	Paint related material
Hazard Class:	3
Packing Group:	II
Hazchem Code:	3YE

IMDG (Sea Transport):

UN No	1263
Proper Shipping Name:	Paint related material
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable
Packing Group:	II
Marine Pollutant:	No
EmS:	F-E,S-E

ICAO/IATA (Air Transport):

UN No	1263
Proper Shipping Name:	Paint related material
Hazard Class:	3
Subsidiary Hazard Class:	Not applicable
Packing Group:	II

Transportation Instructions:
Confirm that there is no breakage, corrosion or leakage from the container before shipping. Prevent damage to cargo when loading from falling, dropping or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statues and rules.

Section 15: Regulatory Information

Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Classification) Notice 2017.
HSNO Substance Approval Code: HSR002662

HSNO Control A:	This product must be under the control of an approved handler during use.
HSNO Classification:	No data available
Acute toxicity:	Category 6.1E
Acute inhalation toxicity:	Category 6.1E

Skin corrosion/irritation:	Category 6.3A
Serious eye damage/irritation:	Category 6.4A
Toxicity for reproduction:	Category 6.8B
Target Organ Systemic Toxicant – repeated exposure:	Category 6.9B
Aspiration toxicity:	Category 6.1E
Flammable liquids:	Category 3.1B
Acute aquatic toxicity:	Category 9.1C
Eco-toxic to terrestrial invertebrates:	Category 9.4C

Refer to Section 2 for hazardous classification and to www.epa.govt.nz for controls and conditions.
For additional compliance information, refer to Worksafe NZ www.worksafe.govt.nz

Section 16: Other Information

Issue Date: April 2024.

Abbreviations:

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

Safety data sheets are updated frequently. Please ensure you have a current copy.

Disclaimer:

Before using any product, read its label carefully and ensure that you understand its contents .The information contained herein is based on data considered accurate and reliable to the best of our knowledge and belief of the date complied. However no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use hereof. Solvent Supplies Limited assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such users or vendor assume all risks associated with the use of the material. It is the user's responsibility to satisfy themselves as to the suitability and completeness of the information for their own particular use. The users must determine whether the use of the information and data is in accordance with local laws and regulations.