

# MATERIAL SAFETY DATA SHEET

**IWSPSA**

## SECTION 1: IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

**Product Name:** Polystyrene Safe Adhesive Spray Product code IWSPSA  
**New Zealand Supplier:** Insulation Wholesalers Ltd  
**Address:** 635a Makerua Rd RD4 Palmerston North  
New Zealand  
**Telephone:** +64 (0) 6 3298065  
**Emergency No:** **0800 764 766 (National Poison Centre)**  
**E-mail:** office@insulationwholesalers.co.nz  
**Date SDS Issued:** 19/02/19

## SECTION 2: HAZARDS IDENTIFICATION

**NZ – This substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001**

**NZ Group Standard & EPA Approval Code:** Aerosols (Flammable) – HSR002515

### Pictograms:



Flammable

Irritant

**Signal Word: Danger**

HSNO Class	Hazard Code	Hazard Statement	Category
2.1.2A	H222	Extremely Flammable Aerosol	Category 1
6.3A	H315	Causes Skin Irritation	Category 2
6.4A	H320	Serious Eye Irritation	Category 1
6.9	H336	May Cause Drowsiness or Dizziness	
9.1C	H412	Harmful to aquatic life with long lasting effects	Category 3

### Prevention Code      Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. No Smoking
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use
P261	Avoid breathing fumes or vapours.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.

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Date of SDS: 19 Feb 2020

Issued By: Insulation Wholesalers Ltd  
Ph: 06 329 8065 E: matt@insulationwholesalers.co.nz

<b>Response Code</b>	<b>Response Statement</b>
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing.
P332 + P313	If Skin Irritation occurs: Get medical advice/attention.
P337/313	If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

<b>Storage Code</b>	<b>Storage Statement</b>
P403 + P233	Store locked up in a well-ventilated place. Keep container tightly closed.
P410	Protect from sunlight. Do not expose to temperatures exceeding 50 °C

<b>Disposal Code</b>	<b>Disposal Statement</b>
P410	Dispose of according to the local authorities.

### SECTION 3: COMPOSITION OF HAZARDOUS INGREDIENTS

<b>Ingredient</b>	<b>Wt %</b>	<b>CAS Number</b>
Non-volatile components	18-25*	0000000*
Dimethyl Ether	30-35*	115-10-6
Propane	2-5*	74-98-6
Isobutane	2-5*	75-28-5
N-butane	2-5*	106-97-8
Methyl Acetate	10-20*	79-20-9
Heptane	5-10*	142-82-5
Hexane	15-20*	110-54-3

\*The specific chemical identity and/or exact percentage (concentration) of this composition is proprietary information.

### SECTION 4: FIRST AID MESURES

<b>If on Skin</b>	Wash skin with Soap and water – if irritation occurs Get medical advice/attention.
<b>If in Eyes</b>	Rinse eyes cautiously with lukewarm, gently flowing water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes If signs/symptoms persists: Get medical advice/attention.
<b>If Swallowed</b>	DO NOT INDUCE VOMMITING. Never give anything by mouth to an unconscious Person. If individual is conscious , give large quantities of water to dilute stomach contents. Immediately call a POISON CENTRE or Obtain Medical attention.

<b>If Inhaled:</b>	Remove person to fresh air . Remove contaminated Clothing and loosen remaining clothing. If breathing is difficult administer oxygen. Get Medica attention.
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**SECTION 5: FIRE FIGHTING MEASURES**

<b>Hazard Type</b>	Flammable gas
<b>Hazards from Products</b>	Thermal decomposition may yield Carbon Monoxide , Carbon Dioxide, irritating gases and Vapours.
<b>Suitable Extinguishing Media</b>	CO2 , Dry Chemical . do not use full water jet.
<b>Precautions for firefighters and special protective clothing</b>	Fire may produce toxic thermal decomposition; pressure demand , self-contained respiratory breathing protection should be provided for firefighters in buildings or other confined areas.
<b>HAZCHEM CODE</b>	2YE

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

For personal protection, see section 8.

No smoking or sources of ignition. Wear protective gloves and use suitable respiratory protective equipment. Soak up with absorbent materials and collect in suitable containers for correct disposal. Ventilate spill area . do not release into sewers/drains/waterways.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling:**

Keep out of reach of children.
Protect from sunlight. Do not expose to temperatures exceeding 50°C.
No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Avoid release to the environment.
Avoid contact with oxidizing agents (eg chlorine, chromic acid etc.)
Store away from acids. Store away from oxidizing agents.

## SECTION 8:

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	TWA ppm mg/m <sup>3</sup>
Dimethyl ether	7631-86-9	ACGIH	350ppm
Dimethyl ether	7631-86-9	OSHA	1450mg/m <sup>3</sup>
Methyl acetate	79-20-9	ACGIH	TWA:200
Methyl acetate	79-20-9	OSHA	TWA:610mg/m <sup>3</sup>

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The Time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15 Minute average exposure standard. Applies to any 15-Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short term and time-weighted average exposures apply.

**Engineering Controls:**

Ensure adequate ventilation

**Personal protective equipment (PPE)**

Eye/face Protection:	Wear eye protection with side shields. Eye wash bottle with pure water.
Skijn Protection:	Gloves made from the following material(s) are recommended: Nitrile Rubber.
Respiratory Protection	Not required if adequate ventilation. If ventilation is not adequate, a suitable respirator and cartridge should be used.

## SECTION 9:

## PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties:**

Appearance	Aerosol containing compressed gas
Colour	Clear
Odor	Solvent
Odor threshold	Not available
pH	Not available
Melting point	Not available
Boiling Point	Not Applicable
Flash Point	-40°C (Closed Cup)
Evaporation rate	1.9 [Ref Std: ETHER=1]
Flammability (solid, gas)	Flammable Aerosol: Category 1.
Flammable Limits (LEL)	No Data Available
Flammable Limits (UEL)	No Data Available
Vapor Density	2.95 [Ref Std: AIR=1]
Density	0.742 g/ml

Specific Gravity	0.742 [Ref Std: WATER=1]
Solubility in Water	Nil
Solubility – non-water	No Data Available
Partition coefficient: n-Octanol/water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	Not Applicable
Viscosity	Not Applicable
Hazardous Air Pollutants	≤0% weight
Molecular weight	No Data Available
Volatile Organic Compounds	75%
Solids Content	18-25%

## SECTION 10: STABILITY AND REACTIVITY

<b>Stability of substance:</b>	Stable at normal ambient temperatures and when use as recommended.
<b>Conditions to Avoid:</b>	Avoid heat, flames and sparks, avoid temperatures above 50C , direct sunlight .
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Smoke, carbon monoxide and carbon dioxide may form in the event of incomplete combustion.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation hazard is increased at higher temperatures. Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Considered an unlikely route of entry in commercial/industrial environments. The liquid may produce gastrointestinal discomfort and may be harmful if swallowed.

Skin Contact	The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. Open cuts, abraded or irritated skin should not be exposed to this material
Eye	There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.
Chronic	Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. Intentional abuse (glue sniffing) or occupational exposure to toluene can result in chronic habituation. Chronic abuse has caused inco-ordination, tremors of the extremities (due to widespread cerebrum withering), headache, abnormal speech, temporary memory loss, convulsions, coma, drowsiness, reduced colour perception, blindness, nystagmus (rapid, involuntary eye movements), hearing loss leading to deafness and mild dementia. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

### Toxicity

Name	Route	Species	Value
Overall Product	Ingestion	Rat	No data available Calculated ATE > 5000 mg/kg
Dimethyl Ether	Inhalation	Rat	LC50 > 200,000 ppm
Methyl Acetate	Dermal	Rat	LD50 > 2,000 mg/kg
Methyl Acetate	Inhalation gas (4 hours)		

### Acute Effects:

Swallowed	Not applicable
Dermal	Not applicable
Inhalation	Not applicable
Eye	Causes serious eye irritation
Skin	Causes skin irritation

carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Inhalation	Not applicable
Eye	Not applicable
Skin	Not applicable
STOT/SE	May Cause drowsiness or dizziness.
STOT/RE	Not applicable

### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

## SECTION 12: ECOLOGICAL INFORMATION

**New Zealand HSNO Class: 9.1C** = Harmful to aquatic life with long lasting effects

<b>Toxicity</b>	Harmful to aquatic life with long lasting effects.
<b>Persistence and Degradability:</b>	No data available.
<b>Bio-accumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>Other Adverse Effects:</b>	No data available.

Do not allow to enter waterways

## SECTION 13: DISPOSAL CONSIDERATIONS

### Disposal methods

Dispose of contents/container in accordance with the local/regional/national/ international regulations.
Dispose of waste product in a permitted industrial waste facility. The facility should be equipped to handle gaseous waste.
Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.
EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

## SECTION 14: TRANSPORT INFORMATION

**This product is classified as Dangerous Goods for transport: New Zealand: NZS 5433:2012**



### Road and Rail Transport

UN No	1950
Class Primary	2.1
Packing Group	None Allocated
Proper Shipping Name	AEROSOLS

**SECTION 15:****REGULATORY INFORMATION**

**New Zealand HSNO Classification:** 2.1.2A, 6.3B, 6.4A, 9.1C

**EPA Approval Code:** Aerosols (Flammable) HSR002515

**HSNO Controls in New Zealand:**

**Trigger Quantities for this Substance:**

	<b>Trigger Quantity</b>
Approved Handler	3000 L (AWC)
Location Certificate	3000 L (AWC)
Tracking Trigger Quantities	Not applicable
Signage Trigger Quantities	1000 L (9.1C)
Emergency Response Plan Trigger Quantities	300 (AWC) or 1000 L (9.1C)
Restriction of use	None Allocated

**SECTION 16:****OTHER INFORMATION**

HSNO Approved Code of Practice: Preparation of Safety Data Sheets

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