

Safety Data Sheet – **Protecto-Tak**

1. Identification

Product Name: Protecto-Tak

UN Number: 1950

Recommended Use: Aerosol adhesive

Proper Shipping Name: AERSOLS

NZ Supplier:

Name: Marshall Innovations Ltd

Address: 41 Hotuhotu Street
Tauriko
Tauranga 3110

Phone: (07) 543 0948
0800 776 9727

Fax: (07) 541 1029

Website: www.mwnz.com

Manufacturer:

Name: Protecto Wrap Company

Address: 1955 South Cherokee Street
Denver, CO 80223

Email: info@protectowrap.com

Website: www.protectowrap.com

Emergency Contacts: Emergency Services (Fire, Ambulance, Police) – Dial 111
National Poisons Information Centre – 0800 764 766 (0800 POISON)
Company Contact – 0800 776 9727

2. Hazard Identification

Statement of Hazardous Nature:

This preparation is classified as a health or environmental hazard according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

Classified as a Dangerous Good according to NZS 5433.

Hazard Classification:

2.1.2A, 6.1E, 6.3B, 6.4A, 6.9A, 9.1B

Hazard Statements:



DANGER

Extremely flammable aerosol.
May be harmful if swallowed.
Causes mild skin irritation.
Causes serious eye irritation.
Causes damage to organs (central nervous system) through prolonged or repeated exposure through inhalation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

Prevention Statements:

PRESSURIZED CONTAINER: DO NOT PIERCE OR BURN, EVEN AFTER USE.
Keep out of reach of children.
Read label and safety data sheet before use.
Keep away from heat, sparks, open flames and hot surfaces.
No smoking.
Do not spray on an open flame or other ignition source.
Wash hands thoroughly after handling.
Wear protective eye / face protection.
Do not breathe fumes or mist from product.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.

3. Composition & Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Hexane	110-54-3	25–45
Dimethyl ether	115-10-6	5–15
Cyclohexane	110-82-7	5–10
Isobutane	75-28-5	5–10
Propane	74-98-6	5–10

Balance of materials are non-hazardous.

4. First Aid Measures

IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND.

New Zealand Poisons & Hazardous Chemicals National Information Centre phone 0800 POISON – 0800 764 766
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Skin: IF ON SKIN, remove all contaminated clothing and wash skin thoroughly with wear and soap. If skin irritation occurs, seek medical advice. Wash contaminated clothing before reuse.

Eyes: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.

Ingestion: IF SWALLOWED, rinse mouth with water. Do NOT induce vomiting. Call a POISON CENTRE or doctor if you feel unwell.

Inhalation: IF INHALED, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell or breathing difficulties persist.

IF exposed or concerned: Get medical advice/attention if you feel unwell

Advice to Doctor: Treat symptomatically.

5. Fire Fighting Measures

Flammability: Extremely flammable aerosol, forms explosive mixtures with air. Vapours are heavier than air and will travel along surfaces to remote ignition sources and flash back. Puncturing containers or heating cans above 54°C may cause containers to rupture.

Extinguishing media: Use carbon dioxide, foam or dry chemical extinguisher. Use fog nozzles if water is used. Use water to cool containers exposed to fire.

Hazardous Combustion products: Oxides or carbon and nitrogen and other organic compounds may be formed.

Firefighting instructions: Firefighters should wear positive pressure, self-contained breathing apparatus and full protective clothing. Provide shielding to protect from bursting cans. Do not allow run-off from firefighting to enter drains or water courses.

Explosion data (sensitivity to mechanical impact or static discharge): Flammable vapours may be ignited by static spark. Aerosol containers may explode in fire. Mechanical impact may rupture aerosol containers releasing flammable gases and vapours.

6. Accidental Release Measures

Spills: Remove all sources of ignition. Keep unauthorised personnel away. Do not touch or walk through spilled material. Stop leak if safe to do so. Ventilate area with explosion-proof equipment if natural ventilation is inadequate. Wear appropriate protective clothing as described in Section 8.

Absorb spill with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect material and place it in loosely covered metal or plastic containers for later disposal. Prevent spill from entering storm water and sewer drains and watercourses.

7. Handling & Storage

Safe Handling

Before use, carefully read the product label.

Keep out of reach of children.

Pressurized container: do not pierce or burn, even after use. Keep away from heat sources, sparks, flames and all other sources of ignition. No smoking around product. Do not spray on an open flame or other ignition source.

Do not breathe fumes / mist from this product.

Avoid contact with the eyes, skin, and clothing. Wear protective eye / face protection (see Section 8).

Wash hands thoroughly after handling. Prohibit eating, drinking and smoking in work areas.

Use only outdoors or in a well-ventilated area.

Do not cut, drill, grind or weld on or near containers, even empty containers. Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Certified Handler: Not Required

Storage

Store in a cool, well ventilated area (<50°C) away from heat, all sources of ignition and foodstuffs. Protect from sunlight. Store locked up.

Ensure containers are labelled, protected from physical damage and tightly sealed when not in use.

Do not store nearby strong acids, bases, reducers or oxidisers.

8. Exposure Controls & Personal Protection

Exposure Standards

Workplace Exposure Standards (WES):

No exposure standards have been set for this product. Exposure limits for ingredients are listed below.

Ingredient	CAS Number	TWA	STEL
Hexane	110-54-3	20 ppm 72 mg/m ³	1,000 ppm 3,500 mg/m ³
Dimethyl ether	115-10-6	400 ppm 766 mg/m ³	500 ppm 958 mg/m ³
Cyclohexane	110-82-7	100 ppm 350 mg/m ³	300 ppm 1,050 mg/m ³
Propane	74-98-6	Simple asphyxiant – may present an explosion hazard	

Data source: *Workplace Exposure Standards and Biological Indices (11th Edition, Nov 2019, WorkSafe)*

Biological Exposure Indices

Ingredient	Determinant	Sampling Time	BEI
n-Hexane	2,5-hexanedione in urine	End of shift	5 mg/L

Data source: *Workplace Exposure Standards and Biological Indices (11th Edition, Nov 2019, WorkSafe)*

Engineering Controls

Ventilation: Use only outdoors or in a well-ventilated area. General ventilation should be adequate for normal use. For use where the occupational exposure limits may be exceeded, mechanical ventilation such as local exhaust may be needed to maintain exposure levels below applicable limits. Use only explosion-proof ventilating equipment.

Personal Protection (PPE)

Wear protective eye / face protection.

Eyes/Face: Splash resistant Safety Glasses with side shields or safety goggles (AS/NZS 1337).

Skin: Wear gloves that are impermeable and resistance to the product. Consult your glove supplier for additional information on glove selection.

Respiratory: If the exposure limits are exceeded, an approved respirator appropriate for the form and concentration of the contaminants should be used. Respirators must comply with AS/NZS 1716 and maintained in accordance with AS/NZS 1715. Respiratory protection may be advisable when cleaning spills.

Other: Wear impervious clothing as needed to prevent contact. A safety shower and eye wash should be available in the immediate work area.

9. Physical & Chemical Properties

Appearance: White liquid packaged as an aerosol.

Odour: Solvent odour.

pH: No data available.

Boiling point: Not available.

Melting point: Not available.

Bulk density: 5.84 lbs/gallon

Solubility (water): Insoluble.

Flash point: -104°C

Autoignition Temp: No data available.

Lower Flammability Limit (LEL): 1.0%

Upper Flammability Limit (UEL): 18.0%

Evaporation rate: 9 (hexane) (n-butyl acetate = 1)

Vapour density: 3.5 (hexane)

Vapour pressure: 15 mm Hg @ 25°C (hexane)

Viscosity (dynamic): Not available.

VOC content: 550 g/L

10. Stability & Reactivity

Stability: Stable under normal conditions of storage and use.

Conditions to avoid: Heat sources, sparks, flames and other sources of ignition.

Incompatible Materials: Strong acids, bases, reducers and oxidisers.

Hazardous decomposition products: Oxides of carbon and nitrogen and other organic compounds.

Hazardous polymerisation: Will not occur.

11. Toxicological Information

Health Effects / Symptoms of Exposure

Acute Exposure:

Skin: Causes mild skin irritation. Repeated or prolonged contact may cause irritation, drying and defatting. The liquid may be absorbed through the skin causing effects similar to those described under inhalation and ingestion.

Eyes: Causes serious eye irritation. Contact may cause severe irritation with redness, tearing and blurred vision. Eye contact can lead to permanent damage if not treated promptly.

Ingestion: May be harmful if swallowed. This is an unlikely route of exposure with an aerosol product. Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness.

Inhalation: Inhalation of vapours may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, nausea, vomiting, disorientation and stupor. Severe overexposures may cause muscle weakness, numbness in the extremities, unconsciousness, respiration depression and death. Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal.

Chronic Exposure:

Respiratory or Skin sensitisation: This product is not expected to cause sensitization.

Mutagenicity: This product is not expected to be a mutagen. Hexane and cyclohexane have tested positive for mutagenicity in some test systems.

Carcinogenicity: Not expected to be a carcinogen. No ingredient in this product present at greater than 0.1% is listed as a carcinogen by NTP, IARC, or OSHA.

Reproductive Toxicity: This product is not expected to be a reproductive toxin. Hexane has been found to cause adverse reproductive effects and/or birth defects in some studies with laboratory animals.

Specific Target Organ Toxicity: Causes damage to organs through prolonged or repeated exposure through inhalation. May cause drowsiness or dizziness. Prolonged overexposure may cause peripheral nerve damage and central nervous system effects. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Aspiration Hazard: Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal.

Other information: No synergistic products are specifically known. Products containing chemicals that effect the same target organ systems would be expected to have synergistic effects; for example, other solvent containing products.

Medical conditions aggravated by exposure: Employees with pre-existing skin, respiratory, liver and kidney disease may be at increased risk from exposure.

Toxicological Data

No data available for this product as a whole. Toxicological data below is for individual ingredients.

Cyclohexane	LD50 (Oral, Mouse) =	813 mg/kg
	LC50 (Inhalation, Rat) =	13.9 mg/L

Data source: *Chemical Classification and Information Database*

12. Ecological Information

Toxic to aquatic life with long lasting effects.

Persistence in environment: No data available.

Biodegradability: No data available.

Mobility: No data available.

Ecotoxicological Data

No data available for this product as a whole. Data below is for individual ingredients.

Cyclohexane	LC50 (<i>Morone saxatilis</i> , 96-hr) =	8.3 mg/L
	EC50 (<i>Daphnia magna</i> , 48-hr) =	3.78 mg/L
	LD50 (Oral, Mouse) =	813 mg/kg
Hexane	LC50 (<i>Pimephales promelas</i> , 96-hr) =	2.5 mg/L
	EC50 (<i>Daphnia magna</i> , 48-hr) =	3.9 mg/L

Data source: *Chemical Classification and Information Database*

13. Disposal Considerations

Product is hazardous. Do not allow into drains, sewers or watercourses. Bulk or contaminated product must be disposed of through an approved hazardous waste contractor. Disposal waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Containers to be disposed of as hazardous waste. Pressurized container: do not pierce or burn, even after use.

14. Transport Information

Classified as a Dangerous Good according to NZS 5433:2007

Proper Shipping Name: AEROSOLS

Subsidiary Risk: N/A

UN Number: 1950

Packing Group: N/A

DG Class: 2.1

15. Regulatory Information

HSNO Approval

HSNO Group Standard: Aerosols (Flammable) Group Standard 2017 – HSR002515

16. Other Information

Abbreviations / Terminology:

AS/NZS	Joint Australian New Zealand Standard
AS/NZS 1337	Personal eye-protection
AS/NZS 1715	Selection, use and maintenance of respiratory protective equipment
AS/NZS 1716	Respiratory protective devices
BEI	Biological Exposure Indices
CAS#	Chemical Abstract Service number (a unique identifier for chemicals)
EC50	Median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction or reduction in growth/growth rate in 50 percent of organisms.
HSNO	(New Zealand) Hazardous Substances and New Organisms Act
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50 percent of organisms.
LD50	Median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50 percent of animals.
NTP	National Toxicology Program
NZS 5433	Transport of Dangerous Goods on Land
OSHA	Occupational Safety and Health Administration
TWA	Time Weighted Average
STEL	Short-Term Exposure Limit
WES	Workplace Exposure Standard

Prepared with reference to: *Hazardous Substances (Safety Data Sheets) Notice 2017*.

Current Version: 14 May 2020

Revision Information:

SDS may be revised from time to time, please ensure you have a current copy.

This revision: Updated overseas SDS to meet New Zealand requirements.

Previous revision dated: May 2019

Disclaimer:

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations.

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