Safety Data Sheet – JS160H Mastic

1. Identification

Product Name: JS160H Mastic

Recommended Use: Mastic for waterproofing applications.

UN Number: 1866

Proper Shipping Name: RESIN SOLUTION, flammable

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:
3.1B, 6.1E, 6.3A, 6.4A, 6.8B, 6.9B, 9.1D, 9.3C

Hazard Statements:

DANGER
Highly flammable liquid and vapour.
May be harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
May cause damage to organs (central nervous system) through prolonged or repeated exposure through inhalation.
May cause drowsiness or dizziness.
Harmful to aquatic life.
Harmful to terrestrial vertebrates.

Prevention Statements:
Keep out of reach of children.
Read label and safety data sheet before use.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames and hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical / ventilating / lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe vapours.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves and eye / face protection.

3. Composition & Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Toluene	108-88-3	15 – 25
Non-hazardous components		
Talc	14807-96-6	30 – 50
Polyethylene	9002-88-4	20 – 40
Asphalt	8052-42-4	20 – 30
Resins and polymers	-	3 – 20

4. First Aid Measures

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

If exposed or concerned, or you feel unwell, seek medical advice.

New Zealand Poisons & Hazardous Chemicals National Information Centre

phone 0800 POISON – 0800 764 766

Skin: IF ON SKIN (or hair), remove all contaminated clothing immediately. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs, seek medical advice.

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: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor if you feel unwell.

Advice to Doctor: Treat symptomatically.

5. Fire Fighting Measures

Flammability: Highly flammable liquid and vapour. Vapours are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat.

Extinguishing media Use carbon dioxide, universal foam, dry chemical or water fog. Do not use water stream. Use water to cool exposed containers and structures.

Hazardous Combustion products: Oxides of carbon and nitrogen, acrolein, ketones, aldehydes, benzaldehydes and other organic compounds.

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

6. Accidental Release Measures

Spills: Remove all sources of ignition. 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

Keep out of reach of children.

Avoid contact with the eyes, skin and clothing.

Do NOT breathe vapours.

Use only outdoors or in a well-ventilated area.

Wear protective clothing and equipment as described in Section 8.

Observe good personal hygiene, including washing hands thoroughly after handling.

Keep container tightly closed when not in use.

Keep product away from heat, sparks, open flames and all other sources of ignition. Do not permit smoking in use or in storage areas.

Use with non-sparking tools and explosion-proof equipment. Ground/bond container and receiving equipment when pouring bulk quantities. Take precautionary measures against static discharge.

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.

Prohibit eating, drinking and smoking in work areas.

Certified Handler: Not Required

Storage

Do not store above 49°C. Store in a dry, well ventilated area away from heat, direct sunlight, all sources of ignition and foodstuffs. Store locked up.

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

Do not store nearby oxidisers and acids.

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
Toluene (skin)	108-88-3	50 ppm 188 mg/m^3
Talc (containing no asbestos fibres)	14807-96-6	2 mg/m^3 (r)
Asphalt fumes	8052-42-4	5 mg/m^3

[(skin) – notification for a product that can be absorbed into the bloodstream through intact skin]

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

Biological Exposure Indices

Ingredient	Determinant	Sampling Time	BEI
Toluene	Toluene in urine	End of exposure or end of shift	0.03 mg/L
	o-Cresol in urine (following hydrolysis)	End of exposure or end of shift	0.3 mg/g creatinine

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. Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion-proof ventilating equipment.

Personal Protection (PPE)

Wear protective gloves and eye/face protection. Use following personal protective equipment as required.

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. Suitable glove materials include Teflon and Viton Butyl. 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: Black, viscous liquid.
Odour: Aromatic odour (toluene).
pH: No data available.
Boiling point: 111°C (toluene)
Melting point: No data available.
Flash point: 6°C (toluene)
Autoignition Temp: 480°C (toluene)
Lower Flammability Limit (LEL): 1.2%
Upper Flammability Limit (UEL): 7.1%

Bulk density: 11.4 lbs/gal
Specific gravity: 1.883
Solubility (water): Insoluble
Evaporation rate: 2.24 (toluene)
Vapour density: 3.14 (toluene)
Vapour pressure: 16.7 mm Hg @ 20°C (toluene)
Viscosity (dynamic): No data available.
VOC content: 180 g/L

10. Stability & Reactivity

Stability: Stable under normal conditions of use and storage.

Conditions to avoid: Dried resin solids can be flammable in the presence of the following materials or conditions: open flames, sparks, static discharge, and heat.

Incompatible Materials: No data available.

Hazardous decomposition products: Decomposition can occur at elevated temperatures.

Hazardous polymerization: Will not occur.

11. Toxicological Information

Health Effects / Symptoms of Exposure

Acute Exposure

Skin: Causes 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.

Ingestion: May be harmful is swallowed. Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness.

Inhalation: May cause damage to organs through prolonged or repeated inhalation. Inhalation of vapours may cause mucous membrane and respiratory irritation, and central nervous system depression with symptoms of headache, dizziness, nausea, vomiting, disorientation, stupor and unconscious. Severe overexposures may cause respiration depression and death. Hydrogen sulphide will evolve from asphalt and collect in the headspace of containers. Hydrogen sulphide is irritating to the eyes and respiratory tract at low concentrations. High concentrations of hydrogen sulphide can cause respiratory arrest and death.

***Chronic Exposure**:*

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

Mutagenicity: Based on available data, product is not classified as a mutagen. Toluene has tested positive for mutagenicity in some test systems.

Carcinogenicity: No ingredient in this product present at greater than 0.1% is listed as a carcinogen by NTP, IARC, or OSHA.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT): May cause damage to organs through prolonged or repeated exposure through inhalation. May cause dizziness or drowsiness.

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

Other information: Prolonged occupational overexposure may cause cardiac sensitization, effects on hearing and damage to the nervous system, blood system, liver and kidneys. Prolonged intentional toluene abuse may damage many organ systems, including: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Toluene has been found to cause adverse reproductive effects and/or birth defects in studies with laboratory animals. Prolonged inhalation of talc dust may cause lung damage (pulmonary fibrosis), however, the talc in this product is bound in a polymer matrix and dust exposure would not be expected

Medical conditions aggravated by exposure: Employees with pre-existing skin, 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.

Toluene	LD50 (Oral, Rat) =	636 mg/kg
	LC50 (Inhalation, Rat) =	12.5 – 28.8 mg/L

Data source: *Chemical Classification and Information Database*

12. Ecological Information

Harmful to aquatic life. Harmful to terrestrial vertebrates.

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.

Toluene	LC50 (*Oncorhynchus mykiss,* 96-hr) =	5.8 mg/L	
	EC50 (*Daphnia magna,* 48-hr) =	11.5 mg/L	
	EC50 (*Selenastrum capricornutum,* 48-hr) =	12.5 mg/L	(EC50 Growth)
	LD50 (Oral, Rat) =	636 mg/kg	

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. Containers may only be recycled if clean and free of residue so as to be non-hazardous.

14. Transport Information

Classified as a Dangerous Good according to NZS 5433:2007.

Proper Shipping Name: RESIN SOLUTION, flammable

UN Number: 1866

DG Class: 3

Subsidiary Risk: N/A

Packing Group: II

15. Regulatory Information

HSNO Approval

HSNO Group Standard: Surface Coatings and Colourants (Flammable) Group Standard 2017 – HSR002662

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
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
(r)	The value for respirable dust.
(skin)	Substance that is considered to have potential for significant skin absorption, which may result in a higher substance uptake than would have been expected from inhalation only.
TWA	Time Weighted Average
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: October 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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