Safety Data Sheet – JS 160H Mastic

1. Identification

Product Name: JS 160H 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: 0800 776 9727
Email: admin@mwnz.com
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 product is classified as hazardous according to the criteria of the *Hazardous Substances (Hazard Classification) Notice 2020*.

Classified as a Dangerous Good according to NZS 5433.

Hazard Classification:
Flammable liquids category 2
Skin irritation category 2
Eye irritation category 2
Reproductive toxicity category 2
Specific target organ toxicity - repeated exposure category 2

DANGER

Hazard Statements:
Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child [toluene ingredient].
May cause damage to organs through prolonged or repeated exposure.

Prevention Statements:
Keep out of reach of children.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof [electrical, ventilating, lighting, etc] equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Wear eye / face protection.
Wear protective gloves, protective clothing and hearing protection.
Wash hands or exposed skin thoroughly after handling.
Do no breathe dust/fume/mist/vapours/spray.

3. Composition & Information on Ingredients

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

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

Skin: IF ON SKIN (or hair), immediately take off any contaminated clothing and wash skin with water and soap and rinse thoroughly. Wash contaminated clothing before reuse. If skin irritation or rash appears or persists, seek medical advice/attention.

Eyes: IF IN EYES, rinse opened eye for several minutes under running water. Remove contact lenses, if present, and continue rinsing. If eye irritation persists/occurs, seek medical advice/attention.

Ingestion: IF SWALLOWED, do not induce vomiting. Rinse the mouth and lips with water and spit the fluids out. If feeling unwell or concerned, seek medical attention.

Inhalation: IF INHALED, immediately remove person to fresh air and keep comfortable for breathing. Inhalation may cause drowsiness or dizziness. 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.

This product is flammable and forms explosive mixtures with air. 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.

Flammable vapours may be ignited by static spark. Electrically bond and ground containers for product transfer.

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 sulphur and nitrogen, acrolein, ketones, aldehydes, benzaldehydes and other organic compounds.

Fire Fighting 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. Ventilate area with explosion-proof equipment if natural ventilation is inadequate.

Use appropriate PPE as detailed in section 8 below. Do not touch or walk through spilled material. Stop leak if safe to do so. 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 in accordance with section 13.

Prevent spill from entering storm water, sewer drains and watercourses.

7. Handling & Storage

Safe Handling

Before use, read label carefully and follow all instruction.
Keep out of reach of children.
Avoid contact with the eyes, skin and clothing. Wear protective clothing and equipment as described in Section 8.
Do NOT breathe vapours.
Use only outdoors or in a well-ventilated area.
Wash 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

Store locked up.
Store in a dry and well-ventilated place. Keep cool (below 49°C) and away from heat, direct sunlight, all sources of ignition and foodstuffs.
Ensure containers are labelled, protected from physical damage and properly sealed when not in use.
Do not store nearby oxidisers and acids.

8. Exposure Controls & Personal Protection

Exposure Standards

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

Workplace Exposure Standards (WES):

Ingredient	CAS Number	TWA	STEL	Note
Toluene	108-88-3	75 mg/m^3	377 mg/m^3	Skin absorption, Ototoxin
Talc (containing no asbestos fibres)	14807-96-6	2 mg/m^3 (respirable)	-	
Asphalt (petroleum) fumes	8052-42-4	0.5 mg/m^3	-	Skin absorption

Data source: *Workplace Exposure Standards and Biological Indices (15th Edition, Feb 2025, WorkSafe)*

Biological Exposure Indices (BEI):

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 (15th Edition, Feb 2025, WorkSafe)*

Engineering Controls

Ventilation: Use only outdoors, in a well-ventilated area or use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits. Use only explosion-proof ventilating equipment.

Personal Protection (PPE)

Wear protective gloves, impervious clothing, covered boots and eye/face protection.
Contaminated work clothing should not be allowed out of the workplace

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

Skin: Use Teflon or Viton Butyl gloves. The glove material must be impermeable and resistance to the product (in accordance with AS/NZS 2161). Consult your glove supplier for specific product information.

Respiratory: In case of inadequate ventilation and exposure limits are exceeded, wear an approved respirator with organic vapour filters. Respiratory protection should comply with AS/NZS 1716 and maintained with AS/NZS 1715.

9. Physical & Chemical Properties

Appearance: Black, viscous liquid.
Odour: Aromatic odour (toluene).
Odour threshold: Toluene odour threshold reported to be 1.6 ppm
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.

Reactivity: No data available.

Conditions to avoid: Open flames, sparks, static discharge, and heat. Dried resin solids can be flammable.

Incompatible Materials: Oxidisers and strong acids and bases.

Hazardous decomposition products: No data available.

11. Toxicological Information

Health Effects / Symptoms of Exposure

Acute Exposure

Skin: Cause 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: Cause serious eye irritation.

Ingestion: 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, stupor and unconscious. Severe overexposures may cause respiration depression and death. Hydrogen sulfide will evolve from asphalt and collect in the headspace of containers. Hydrogen sulfide is irritating to the eyes and respiratory tract at low concentrations. High concentrations of hydrogen sulfide can cause respiratory arrest and death.

Aspiration Hazard: Not classified.

Chronic Exposure

Respiratory or Skin sensitisation: Not classified.

Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child (toluene ingredient)

Specific Target Organ Toxicity (STOT): May cause damage to organs (liver, kidneys, blood/ hematopoietic system and central nervous system) through prolonged or repeated exposure (oral and inhalation routes).

Other information: Prolonged occupational overexposure may cause cardiac sensitization, effects on hearing and damage to the nervous system, blood system, liver and kidneys. 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

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Toxicological Data

Toxicological data below is for individual ingredients.

Toluene	LD_{50} (Oral, Rat) =	636 mg/kg
	LD_{50} (Dermal, Rabbit) =	8390mg/kg
	LC_{50} (Inhalation, vapour, Rat) =	12.5 mg/L air

Data source: *CCID*

12. Ecological Information

Persistence in environment: No data available.

Biodegradability: Expected not to be degradable.

Bioaccumilative: No data available.

Mobility in soil: No data available.

Ecotoxicological Data

No data available for this product as a whole or its ingredients.

13. Disposal Considerations

Product is hazardous. Avoid release to the environment. Do not allow into drains, sewers or watercourses.

Bulk (unused solution) or contaminated products may 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 5433:2020, UN Model Regulations, IATA and/or IMDG.

Product intended to be transported under the ‘Dangerous Goods in Limited Quantities and Consumer Commodities’ conditions of the Land Transport Rule: Dangerous Goods 2005 (maximum quantity per inner packaging: 5L).

Proper Shipping Name: RESIN SOLUTION, flammable
UN Number: 1866
DG Class: 3
Subsidiary Risk: Not applicable.

Packing Group: II
Marine Pollutant: Ingredients are not listed as Marine Pollutant.

15. Regulatory Information

HSNO Approval

All ingredients listed in the NZIoC.

HSNO Group Standard: Surface Coatings and Colourants (Flammable) Group Standard 2020 - HSR002662

TEL or EEL: None applied to this product or its ingredients.

Certified Handler: Not required

Tracking: Not required

Controlled Substance Licence: Not required

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
AS/NZS 2161	Occupational protective gloves
CAS #	Chemical Abstract Service number (a unique identifier for chemicals)
CCID	New Zealand Chemical Classification and Information Database
EEL	Environmental Exposure Limits
HSNO	(New Zealand) Hazardous Substances and New Organisms Act
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC_{50}	Median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50 percent of organisms.
LD_{50}	Median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50 percent of animals.
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	Transport of Dangerous Goods on Land
TEL	Tolerable Exposure Limits
TWA	Time Weighted Average
STEL	Short Term Exposure Limit

Prepared with reference to:

- *Hazardous Substances (Safety Data Sheets) Notice 2017,* published by Environmental Protection Authority, New Zealand.

Revision Information:

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

Current version: 22 April 2025, v3

Previous revision dated: October 2019 (v1), 14 May 2020, v2

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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