

MARLEY MCS WhiteRevision Date14-Jan-2018Revision Number1.02Supersedes Date:05-Nov-2017

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name MARLEY MCS White

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Adhesives.

Uses advised against Consumer use, This article contains hazardous substances or mixtures intended to be

released under normal or reasonably foreseeable conditions of use.

1.3. Details of the supplier of the safety data sheet

<u>Company Name</u> <u>Manufacturer</u>

Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Lower Hutt, New Zealand
Lower Hutt, New Zealand
Lower Hutt, New Zealand

Tel: 04-567 5119 Tel: 04-567 5119 Fax: 04-567 5412 Fax: 04-567 5412

1.4. Emergency telephone number

Emergency Telephone 24 Hr: 0800 243 622

+64 4 917 9888

Poison Centre: 0800 764 766

E-mail address SDS.AP@Bostik.com

Section 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Serious Eye Damage/Eye Irritation	Category 2 (6.4)
Carcinogenicity	Category 2 (6.7B)
Reproductive toxicity	Category 1B (6.8A)
STOT - Single Exposure	Category 3 (f)
Acute aquatic toxicity	Category 3 (9.1D)
Chronic aquatic toxicity	Category 3 (9.1C)
Flammable Liquids	Category 2 (3.1B)

Classification in parenthesis is applicable for New Zealand Hazard Classification

ERMA Group HSR002669

2.2. Label Elements



Signal Word

DANGER

Hazard statements

H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness

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H351 - Suspected of causing cancer

H360 - May damage fertility or the unborn child

H412 - Harmful to aquatic life with long lasting effects

H225 - Highly flammable liquid and vapor

Precautionary Statements - Prevention

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P264 - Wash face, hands and any exposed skin thoroughly after handling

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P235 - Keep cool

Precautionary Statements - Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Eyes

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

Fire

In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

P405 - Store locked up

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

· May be harmful if swallowed

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Methyl ethyl ketone	78-93-3	20- <40
Tetrahydrofuran	109-99-9	10 - <20
Dibutyltin dilaurate	77-58-7	0.1- <1

^{***} Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice If medical advice is needed, have product container or label at hand.

Inhalation Remove to fresh air.

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Skin Contact Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/

attention.

In case of contact with eyes, rinse immediately with plenty of water and seek medical Eye contact

advice. Remove contact lenses, if present and easy to do. Continue rinsing. Call a

physician immediately.

Ingestion If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

Self-Protection of the First Aider Use personal protection recommended in Section 8. Isolate the hazard area and deny

entry to unnecessary and unprotected personnel.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

4.4. Reference to Other Sections

Reference to other sections See Section 12: ECOLOGICAL INFORMATION. Section 7: HANDLING AND

STORAGE. Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Use CO2, dry chemical, or foam.

Unsuitable Extinguishing Media No information available.

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising from the Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Chemical

5.3. Advice for firefighters

Special Protective Equipment for Wear self contained breathing apparatus for fire fighting if necessary.

Fire-fighters

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate **Personal Precautions**

ventilation, especially in confined areas.

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Use personal protection recommended in Section 8. Isolate the hazard area and deny For emergency responders

entry to unnecessary and unprotected personnel.

6.2. Environmental precautions

Environmental Precautions Do not empty into drains, dispose of this material and its container at hazardous or

special waste collection point.

6.3. Methods and material for containment and cleaning up

Methods for Containment Dike far ahead of spill; use dry sand to contain the flow of material. Contain and collect

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spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

(see Section 13). Protect from moisture.

Methods for cleaning up

Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill for later

disposal.

6.4. Reference to other sections

Reference to other sections See Section 12: ECOLOGICAL INFORMATION

Section 7: HANDLING AND STORAGE

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take

precautionary measures against static charges. Use explosion-proof electrical/

ventilating/ lighting/ equipment.

7.2. Conditions for safe storage, including any incompatibilities

General Hygiene Considerations Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work

area and clothing is recommended.

Storage Conditions Keep only in the original container/package in a cool well-ventilated place. Protect from

moisture. Protect from direct contact with water or excessive moisture.

Incompatible Materials Strong acids and bases

7.3. Specific end use(s)

Other Information No information available.

7.4. References to Other Sections

Reference to other sections See Section 12: ECOLOGICAL INFORMATION. Section 7: HANDLING AND

STORAGE. Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Chemical Name	New Zealand	Australia	European Union
Methyl ethyl ketone	TWA: 150 ppm	150 ppm TWA	TWA: 200 ppm
78-93-3	TWA: 445 mg/m ³	445 mg/m ³ TWA	TWA: 600 mg/m ³
	STEL: 300 ppm	300 ppm STEL	STEL: 300 ppm
	STEL: 890 mg/m ³	890 mg/m³ STEL	STEL: 900 mg/m ³
Tetrahydrofuran	TWA: 100 ppm	100 ppm TWA	TWA: 50 ppm
109-99-9	TWA: 295 mg/m ³	295 mg/m ³ TWA	TWA: 150 mg/m ³
	Skin	_	STEL: 100 ppm
			STEL: 300 mg/m ³
			S*
Dibutyltin dilaurate	TWA: 0.1 mg/m ³	0.1 mg/m³ TWA	-
77-58-7	STEL: 0.2 mg/m ³	0.2 mg/m ³ STEL	
	Skin	•	

Chemical Name	ACGIH TLV	NIOSH IDLH	OSHA PEL
Methyl ethyl ketone	STEL: 300 ppm	IDLH: 3000 ppm	TWA: 200 ppm
78-93-3	TWA: 200 ppm	TWA: 200 ppm	TWA: 590 mg/m ³
		TWA: 590 mg/m ³	_
		STEL: 300 ppm	
		STEL: 885 mg/m ³	

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Tetrahydrofuran	STEL: 100 ppm	IDLH: 2000 ppm	TWA: 200 ppm
109-99-9	TWA: 50 ppm	TWA: 200 ppm	TWA: 590 mg/m ³
	S*	TWA: 590 mg/m ³	_
		STEL: 250 ppm	
		STEL: 735 mg/m ³	
Dibutyltin dilaurate	STEL: 0.2 mg/m ³ Sn	IDLH: 25 mg/m ³ Sn	TWA: 0.1 mg/m ³ Sn
77-58-7	TWA: 0.1 mg/m ³ Sn	TWA: 0.1 mg/m³ except Cyhexatin	
	S*	Sn	

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available

(PNEC)

OTHER INFORMATION No information available

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

PPE - Personal Protection Equipment

Respiratory Protection

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear suitable protective clothing. No special technical protective measures are

necessary under normal conditions.

Hand Protection Wear suitable chemical resistant gloves. The selection of suitable gloves does not only

depend on the material, but also on further marks of quality and various manufacturers. No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask,

Not applicable for liquids

required in insufficiently ventilated working areas and during spraying. An air-fed mas or for short periods of work, a combination of professional filter is recommended.

General Hygiene Do not eat, drink or smoke when using this product. Wash hands thoroughly after Considerations handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and

wash before reuse.

Environmental Exposure Controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Paste Viscous
Color White
Odor Solvent

Odor Threshold No information available

Property Values Remarks • Method

pH No information available
Melting point / freezing point
Boiling point / boiling range
Flash Point No information available
approx 66 °C / 150.8 °F
approx -6 °C / 21.2 °F

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: 11.5 Lower flammability limit: 1.9

Vapor Pressure
Vapor Density
Relative Density
Water Solubility
No information available
No information available
Partially soluble

Solubility in Other Solvents
Partition Coefficient
Autoignition Temperature
Decomposition Temperature
Kinematic Viscosity
Dynamic Viscosity
No information available

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Explosive Properties No information available Oxidizing Properties No information available

9.2. Other information

Softening Point
Molecular Weight
Solvent content (%)

No information available
No information available
No information available

Solid content (%) approx 46
Density 1.4 g/cm³

Bulk Density

No information available

VOC > 300 g/L

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity Stable under recommended storage conditions.

10.2. Chemical stability

Stability Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and flames. Protect from moisture.

10.5. Incompatible materials

Incompatible Materials Strong acids and bases.

10.6. Hazardous decomposition products

Hazardous decomposition

products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied

information.

InhalationNo data available.Eye contactNo data available.Skin ContactNo data available.IngestionNo data available.

Numerical measures of toxicity

Unknown acute toxicity

0.154441 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

18.485091 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

28.671401 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

62.288401 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

23.553401 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
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Ī	Methyl ethyl ketone	= 2483 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	= 11700 ppm (Rat) 4 h
	78-93-3			
Ī	Tetrahydrofuran	= 1650 mg/kg (Rat)	-	= 21000 ppm (Rat) 3 h
	109-99-9			
Ī	Dibutyltin dilaurate	= 2071 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
	77-58-7	- - , ,		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Sensitization
Germ Cell Mutagenicity
Reproductive Toxicity
STOT - Single Exposure
STOT - Repeated Exposure
No information available.
No information available.
No information available.
No information available.

Target Organ Effects Central nervous system, Eyes, Lungs, Respiratory system, Skin.

Aspiration hazard No information available.

Carcinogenicity The following substance(s) are classified in Annex VI CLP (1272/2008) as carcinogenic.

IARC (International Agency for Group 2B - Possibly Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in

Research on Cancer) Human

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Harmful to aquatic life with long lasting effects.

Component Information

Data obtained on the component(s) include

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Methyl ethyl ketone	EC50=1972 mg/l	LC50 96 h 3130 - 3320 mg/L	EC50 48 h > 308 mg/L (Daphnia
78-93-3	(Pseudokirchneriella subcapitata)	(Pimephales promelas	magna)
		flow-through)	
Tetrahydrofuran	-	LC50 96 h 2700 - 3600 mg/L	EC50 24 h = 5930 mg/L (Daphnia
109-99-9		(Pimephales promelas static) LC50	magna)
		96 h 1970 - 2360 mg/L	
		(Pimephales promelas	
		flow-through)	
Dibutyltin dilaurate	-	LC50 48 h = 2 mg/L (Oryzias	-
77-58-7		latipes)	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

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No information available. **Endocrine Disruptor**

Information

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Tetrahydrofuran	Group III Chemical	-	-

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORTATION INFORMATION

IMDG

Products

UN Number UN1133 Proper Shipping Name Adhesives

Transport hazard class(es) 3
Packing Group

EmS-No F-E, S-D Special Provisions 223, 955 Limited Quantity (LQ) 5 L

Description UN1133, Adhesives, 3, III, (-6°C c.c.)

<u>IATA</u>

UN/ID No UN1133
Proper Shipping Name Adhesives

Transport hazard class(es) 3
Packing Group III
ERG Code 3L
Limited Quantity (LQ) 10 L
Special Provisions A3

Description UN1133, Adhesives, 3, III

<u>ADR</u>

UN/ID No UN1133

Proper Shipping Name Adhesives, Environmentally Hazardous

Transport hazard class(es) 3
Labels 3
Packing Group III

Description UN1133, Adhesives, Environmentally Hazardous, 3, III, (D/E)

Environmental Hazard Yes
Limited Quantity (LQ) 5 L
Special Provisions 640E
Classification Code F1
Tunnel Restriction Code (D/E)

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

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Key Literature References and Sources for Data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision Date 14-Jan-2018

Revision Note Not applicable.

Training Advice Provide adequate information, instruction, and training for operator

Disclaimer

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End of Safety Data Sheet