

BOSTIK MULTIGRASS ART GRASS ADH
 Revision Number 3

Revision Date 14-May-2019
 Supersedes Date: 24-May-2018

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

1.1. Product Identifier

Product Name BOSTIK MULTIGRASS ART GRASS ADH
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.

1.3. Details of the supplier of the safety data sheet

<p>Company Name Bostik New Zealand Limited 19 Eastern Hutt Road Wingate, Lower Hutt, New Zealand Tel: 04-567 5119 Fax: 04-567 5412</p>	<p>Manufacturer Bostik New Zealand Limited 19 Eastern Hutt Road Wingate, Lower Hutt, New Zealand Tel: 04-567 5119 Fax: 04-567 5412</p>
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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: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2 (6.3A)
Reproductive toxicity	Category 2 (6.8B)
STOT - single exposure	Category 3 (7)
Acute aquatic toxicity	Category 2 (9.1D)
Chronic aquatic toxicity	Category 2 (9.1B)
Flammable Liquids	Category 2 (3.1B)

Classification in parenthesis is applicable for New Zealand Hazard Classification

ERMA Group HSR002662

2.2. Label Elements



Signal word Danger

Hazard statements

- H411 - Toxic to aquatic life with long lasting effects
- H336 - May cause drowsiness or dizziness
- H361 - Suspected of damaging fertility or the unborn child
- H315 - Causes skin irritation

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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, hot surfaces, sparks, open flames and other ignition sources. 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

P321 - Specific treatment (see supplemental first aid instructions on this label)

Inhalation

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

Skin

P332 + P313 - If skin irritation occurs: Get medical advice/attention
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P363 - Wash contaminated clothing before reuse

Fire

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

Spill

P391 - Collect spillage

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mixture

3.2 Mixtures

Chemical name	CAS No.	Weight-%
Cyclohexane	110-82-7	10 - <20
Methylcyclohexane	108-87-2	5 - <10
Hexane	110-54-3	1 - <5
Toluene	108-88-3	1 - <3
Acetone	67-64-1	1 - <3

*** 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.

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

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	advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. 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. Move containers from fire area if you can do it without risk.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3. Advice for firefighters

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

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

For emergency responders Use personal protection recommended in Section 8. Isolate the hazard area and deny 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 spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,

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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, hot surfaces, sparks, open flames and other ignition sources. 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)

Specific Use(s) Adhesives.

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
Cyclohexane 110-82-7	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 300 ppm STEL: 1050 mg/m ³	100 ppm TWA 350 mg/m ³ TWA 300 ppm STEL 1050 mg/m ³ STEL	TWA: 200 ppm TWA: 700 mg/m ³
Methylcyclohexane 108-87-2	TWA: 400 ppm TWA: 1610 mg/m ³	400 ppm TWA 1610 mg/m ³ TWA	-
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	20 ppm TWA 72 mg/m ³ TWA	TWA: 20 ppm TWA: 72 mg/m ³
Toluene 108-88-3	TWA: 50 ppm TWA: 188 mg/m ³ Skin	50 ppm TWA 191 mg/m ³ TWA 150 ppm STEL 574 mg/m ³ STEL	TWA: 50 ppm TWA: 192 mg/m ³ *
Acetone 67-64-1	TWA: 500 ppm TWA: 1185 mg/m ³ STEL: 1000 ppm STEL: 2375 mg/m ³	500 ppm TWA 1185 mg/m ³ TWA 1000 ppm STEL 2375 mg/m ³ STEL	TWA: 500 ppm TWA: 1210 mg/m ³

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Chemical name	ACGIH TLV	NIOSH IDLH	OSHA PEL
Cyclohexane 110-82-7	TWA: 100 ppm	IDLH: 1300 ppm TWA: 300 ppm TWA: 1050 mg/m ³	TWA: 300 ppm TWA: 1050 mg/m ³
Methylcyclohexane 108-87-2	TWA: 400 ppm	IDLH: 1200 ppm TWA: 400 ppm TWA: 1600 mg/m ³	TWA: 500 ppm TWA: 2000 mg/m ³
Hexane 110-54-3	TWA: 50 ppm S*	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m ³	TWA: 500 ppm TWA: 1800 mg/m ³
Toluene 108-88-3	TWA: 20 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	TWA: 200 ppm Ceiling: 300 ppm
Acetone 67-64-1	STEL: 500 ppm TWA: 250 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m ³	TWA: 1000 ppm TWA: 2400 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

OTHER INFORMATION No information available

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

PPE - Personal Protection Equipment

- 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.
- Respiratory protection** No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.
- General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Paste Liquid
Color Brown
Odor Characteristic
Odor Threshold No information available

Property	Values	Remarks • Method
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	approx. 50 °C	
Flash Point	approx. -15 °C	
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	7.5	

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Lower flammability or explosive limits	1.1	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Water Solubility	Negligible	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic Viscosity	approx. 20000 mm ² /s	@ 40°C
Dynamic Viscosity	approx. 30000 mPa s	@ .? °C
Explosive properties	No information available	
Oxidizing properties	No information available	
9.2. Other information		
Softening Point	No information available	
Molecular Weight	No information available	
Solvent content (%)	No information available	
Solid content (%)	approx. 50	
Density		1.15 g/cm ³
Bulk Density	No information available	
VOC (volatile organic compound)	> 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 Carbon oxides.

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.

Inhalation No data available.
Eye contact No data available.
Skin contact No data available.
Ingestion No data available.

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Numerical measures of toxicity

Unknown acute toxicity

- 7.74916 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 7.74916 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 18.02845 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 26.34978 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 32.71315 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cyclohexane 110-82-7	= 12705 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 9500 ppm (Rat) 4 h
Methylcyclohexane 108-87-2	> 3200 mg/kg (Rat)	>2920 mg/Kg bw (rat) 24 hour	>23 mg/l (vapour) (Rat- OECD 403)
Hexane 110-54-3	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
Toluene 108-88-3	= 5580 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	> 20 mg/L (Rat) 4 h
Acetone 67-64-1	= 5800 mg/kg (Rat)	>15800 mg/Kg (rat)	= 79 mg/l(Rat) 4 h

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

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	liver, Eyes, kidney, blood, Peripheral Nervous System (PNS), retina, Skin.
Aspiration hazard	No information available.
Carcinogenicity	No information available.

Chemical name	IARC	China	Japan
Toluene	Group 3	-	-

IARC (International Agency for Research on Cancer) *Group 1 - Carcinogenic to Humans Group 3 - Not Classifiable as to Carcinogenicity in Humans*

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product Information

Toxic to aquatic life with long lasting effects.

Component Information

Data obtained on the component(s) include

Chemical name	Algae/aquatic plants	Fish	Crustacea
Cyclohexane 110-82-7	EC50 72 h > 9.3 mg/L (Pseudokirchnerella subcapitata)	LC50: 3.96 - 5.18mg/L (96h, Pimephales promelas) LC50: 24.99 - 44.69mg/L (96h, Lepomis macrochirus) LC50: 23.03 - 42.07mg/L (96h, Pimephales promelas) LC50: 48.87 - 68.76mg/L (96h, Poecilia reticulata)	EC50: >400mg/L (24h, Daphnia magna)
Methylcyclohexane 108-87-2	10 mg/l (Pseudokirchneriella subcapitata - OECD 201)	2.07 mg/l (Oryzias latipes)	3 mg/l (Daphnia magna - OECD 202)

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Hexane 110-54-3	-	LC50: 2.1 - 2.98mg/L (96h, Pimephales promelas)	EC50: >1000mg/L (24h, Daphnia magna)
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)
Acetone 67-64-1	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Cyclohexane 110-82-7	3.44	167
Methylcyclohexane 108-87-2	-	3.88
Toluene 108-88-3	2.7	-
Acetone 67-64-1	-0.24	0.69

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.

Chemical name	PBT and vPvB assessment
Cyclohexane 110-82-7	The substance is not PBT / vPvB
Methylcyclohexane 108-87-2	The substance is not PBT / vPvB
Hexane 110-54-3	The substance is not PBT / vPvB
Toluene 108-88-3	The substance is not PBT / vPvB PBT assessment does not apply
Acetone 67-64-1	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products 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: TRANSPORT INFORMATION

IMDG

UN Number

UN1133

Proper Shipping Name

Adhesives (Methylcyclohexane), Marine Pollutant

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Transport hazard class(es)	3
Packing Group	II
Marine Pollutant	P
EmS-No.	F-E, S-D
Limited Quantity (LQ)	5 L
Description	UN1133, Adhesives (Methylcyclohexane), 3, II, (-15°C c.c.), Marine Pollutant

IATA

UN Number	UN1133
Proper Shipping Name	Adhesives
Transport hazard class(es)	3
Packing Group	II
ERG Code	3L
Limited Quantity (LQ)	1 L
Special Provisions	A3
Description	UN1133, Adhesives, 3, II

ADR

UN Number	UN1133
Proper Shipping Name	Adhesives, Environmentally Hazardous
Transport hazard class(es)	3
Labels	3
Packing Group	II
Description	UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous
Environmental hazards	Yes
Limited Quantity (LQ)	5 L
Special Provisions	640C
Classification Code	F1
Tunnel Restriction Code	(D/E)

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

Chronic Hazard Star Legend * = *Chronic Health Hazard*

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

No information available

Key Literature References and Sources for Data

No information available

Prepared By Product Safety & Regulatory Affairs

Revision Date 14-May-2019

Revision note Not applicable.

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

Disclaimer

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End of Safety Data Sheet