

**BOSTIK CLEAN BRAKE**  
 Version 1

Revision Date 01-Nov-2017  
 Supersedes Date: 01-Nov-2017

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

### 1.1. Product Identifier

**Product Name** BOSTIK CLEAN BRAKE  
**Pure substance/mixture** Mixture

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

**Recommended use** Washing and cleaning products (including solvent based products).  
**Uses Advised Against** 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

**Company Name**  
 Bostik New Zealand Limited  
 19 Eastern Hutt Road Wingate,  
 Lower Hutt, New Zealand  
 Tel: 04-567 5119  
 Fax: 04-567 5412

**Manufacturer**  
 Bostik Australia Pty Ltd  
 51-71 High street,  
 Thomastown Victoria  
 Australia  
 Tel: 613 9279-9333  
 Fax: 613 9279-9342  
 24-hr Emergency: 1800 033 111

### 1.4. Emergency telephone number

**Emergency Telephone** 24 Hr: 0800 243 622  
 Poison Centre : 0800 764 766

**E-mail address** SDS.AP@Bostik.com

## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

Aspiration toxicity	Category 1 (6.1E <sup>9</sup> )
Skin Corrosion/Irritation	Category 2 (6.3A)
Reproductive toxicity	Category 2 (6.8B)
STOT - Single Exposure	Category 3 (i)
Acute aquatic toxicity	Category 1 (9.1A)
Chronic aquatic toxicity	Category 1 (9.1A)
Flammable Liquids	Category 2 (3.1B)

Classification in parenthesis is applicable for New Zealand Hazard Classification

**ERMA Group** HSR002667

### 2.2. Label Elements

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Signal Word

DANGER

## Hazard statements

H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H336 - May cause drowsiness or dizziness  
H361 - Suspected of damaging fertility or the unborn child  
H410 - Very toxic 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

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

### 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

### Ingestion

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 - Do NOT induce vomiting

### 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

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## 2.3. Other Hazards

- May be harmful in contact with skin

## **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1 Substances

Mixture

### 3.2 Mixtures

Chemical Name	CAS No.	Weight-%
Cyclohexane	110-82-7	20- <40
Methylcyclohexane	108-87-2	10 - <20
Hexane	110-54-3	5 - <10
Isopropyl alcohol	67-63-0	1 - <5

\*\*\* Any remaining ingredients are not hazardous

## **Section 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

<b>General Advice</b>	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.
<b>Inhalation</b>	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Eye contact</b>	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-Protection of the First Aider</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

### 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** Keep victim warm and quiet.

### 4.4. Reference to Other Sections

**Reference to other sections** Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11: TOXICOLOGY INFORMATION.

## **Section 5: FIRE-FIGHTING MEASURES**

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Dry chemical, CO2, water spray or regular foam. Water spray, fog or regular foam. Use water spray or fog; do not use straight streams.
<b>Unsuitable Extinguishing Media</b>	No information available.

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## 5.2. Special hazards arising from the substance or mixture

**Specific Hazards Arising from the Chemical** Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard. Substance may be transported hot.

## 5.3. Advice for firefighters

**Special Protective Equipment for Fire-fighters** Caution! Container under pressure. Heating causes rise in pressure with risk of bursting. Cool container with water spray.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Remove all possible sources of ignition in the surrounding area. Ensure adequate ventilation, especially in confined areas.

**OTHER INFORMATION** Water spray may reduce vapor; but may not prevent ignition in closed spaces.

### 6.2. Environmental precautions

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas.

### 6.3. Methods and material for containment and cleaning up

**Methods for Containment** A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. 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** Section 7: HANDLING AND STORAGE  
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
Section 13: DISPOSAL CONSIDERATIONS

## **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation, especially in confined areas. Use only in well-ventilated areas. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use.

### 7.2. Conditions for safe storage, including any incompatibilities

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Recommended storage temperature. 10 - 35 °C. Observe local regulations / instructions for storage of pressurized containers. Protect from moisture. Protect from direct contact with water or excessive moisture.

**Incompatible Materials** Strong oxidizing agents Acids Chlorinated compounds

### 7.3. Specific end use(s)

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**OTHER INFORMATION** No information available.

## 7.4. References to Other Sections

Reference to other sections Section 13: DISPOSAL CONSIDERATIONS. Section 10: STABILITY AND REACTIVITY.

## 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 <sup>3</sup> STEL: 300 ppm STEL: 1050 mg/m <sup>3</sup>	100 ppm TWA 350 mg/m <sup>3</sup> TWA 300 ppm STEL 1050 mg/m <sup>3</sup> STEL	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>
Methylcyclohexane 108-87-2	TWA: 400 ppm TWA: 1610 mg/m <sup>3</sup>	400 ppm TWA 1610 mg/m <sup>3</sup> TWA	-
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	20 ppm TWA 72 mg/m <sup>3</sup> TWA	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	TWA: 400 ppm TWA: 983 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup>	400 ppm TWA 983 mg/m <sup>3</sup> TWA 500 ppm STEL 1230 mg/m <sup>3</sup> STEL	-

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 <sup>3</sup>	TWA: 300 ppm TWA: 1050 mg/m <sup>3</sup>
Methylcyclohexane 108-87-2	TWA: 400 ppm	IDLH: 1200 ppm TWA: 400 ppm TWA: 1600 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 2000 mg/m <sup>3</sup>
Hexane 110-54-3	TWA: 50 ppm S*	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1800 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>

**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

<b>Eye/Face Protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.
<b>Hand Protection</b>	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.
<b>Respiratory Protection</b>	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.
<b>General Hygiene</b>	Do not eat, drink or smoke when using this product. Wash hands thoroughly after

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**Considerations** 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	Low Viscosity Liquid
Color	Clear, colorless
Odor	Solvent Sweet
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No information available	
Boiling Point	approx 70 °C / 158 °F	
Flash Point	approx -15 °C / 5 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	Not applicable for liquids
Flammability Limit in Air		
Upper Flammability Limit	1.0	
Lower Flammability Limit	7.5	
Vapor Pressure	No information available	
Vapor Density	No information available	
Relative Density	No information available	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	No information available	
Partition Coefficient	No information available	
Autoignition Temperature	No information available	
Decomposition Temperature	No information available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	No information available	
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 (%)	0
Density	0.73 g/cm <sup>3</sup>
Bulk Density	No information available
VOC	100 %

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

**Reactivity** None under normal use conditions.

### 10.2. Chemical stability

### 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** Heating causes rise in pressure with risk of bursting. Protect from moisture.

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## 10.5. Incompatible materials

**Incompatible Materials** Strong oxidizing agents. Acids. Chlorinated compounds.

## 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.

#### Numerical measures of toxicity

##### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
23.528 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
36.784 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
49.368 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Cyclohexane 110-82-7	= 12705 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 13.9 mg/L ( 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
Isopropyl alcohol 67-63-0	>5000 mg/Kg	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( 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** No information available.  
**STOT - Single Exposure** No information available.  
**STOT - Repeated Exposure** No information available.  
**Target Organ Effects** Central nervous system, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin.  
**Aspiration hazard** No information available.  
**Carcinogenicity** No information available.

Chemical Name	IARC	China	Japan
Isopropyl alcohol	Group 3	-	-

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

## Section 12: ECOLOGICAL INFORMATION

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## 12.1. Toxicity

### Ecotoxicity

#### Product Information

Very 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 96 h 24.99 - 44.69 mg/L (Lepomis macrochirus static) LC50 96 h 3.96 - 5.18 mg/L (Pimephales promelas flow-through) LC50 96 h 23.03 - 42.07 mg/L (Pimephales promelas static) LC50 96 h 48.87 - 68.76 mg/L (Poecilia reticulata static)	EC50 24 h > 400 mg/L (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)
Hexane 110-54-3	-	LC50 96 h 2.1 - 2.98 mg/L (Pimephales promelas flow-through)	EC50 24 h > 1000 mg/L (Daphnia magna )
Isopropyl alcohol 67-63-0	EC50 72 h > 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h > 1400000 µg/L (Lepomis macrochirus )	EC50 48 h = 13299 mg/L (Daphnia magna )

## 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

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

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

## Section 14: TRANSPORTATION INFORMATION

### IMDG

UN/ID No	UN1268
Proper Shipping Name	Petroleum distillates, n.o.s.
Hazard Class	3
Packing Group	II



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EmS-No	F-E, S-E
Special Provisions	363
Limited Quantity (LQ)	1 L
Description	UN1268, Petroleum distillates, n.o.s., 3, II, (-15°C c.c.)

## IATA

UN/ID No	UN1268
Proper Shipping Name	Petroleum distillates, n.o.s.
Hazard Class	3
Packing Group	II
ERG Code	3H
Limited Quantity (LQ)	1 L
Special Provisions	A3
Description	UN1268, Petroleum distillates, n.o.s., 3, II

## ADR

UN/ID No	UN1268
Proper Shipping Name	Petroleum distillates, n.o.s., Environmentally Hazardous
Hazard Class	3
Hazard Labels	3
Packing Group	II
Description	UN1268, Petroleum distillates, n.o.s., Environmentally Hazardous, 3, II, (D/E)
Environmental Hazard	Yes
Limited Quantity (LQ)	1 L
Special Provisions	363, 640C, 664
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

### **Key Literature References and Sources for Data**

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision Date** 01-Nov-2017

**Revision Note** Not applicable.

**Training Advice** No information available

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**