

## Material Safety Data Sheet

Material Name: Toluene

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name:**

Toluene

**Recommended Use:**

Raw material for manufacture of surface coatings, adhesives and other products; racing fuel additive.

**Product Code:**

MCD030

**Restrictions on Use:**

For industrial use only.

**Supplier Information**

Viking Roofspec

80 Alexander Crescent, Otara, Auckland, New Zealand, Phone: 0800 729 799

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### Section 2 - HAZARDS IDENTIFICATION

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This product has been classified as hazardous according to criteria in the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Classifications: 3.1B, 6.1D (oral), 6.1D (inhalation), 6.3A, 6.4A, 6.8B, 6.9B (inhalation), 9.1D (fish), 9.1D (crustacean), 9.1D (algal), 9.3C



**DANGER**

Highly flammable liquid and vapour.

Harmful if swallowed.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life.

Harmful to terrestrial vertebrates.

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**PREVENTION:**

Keep out of reach of children.  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep container tightly closed.  
 Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
 Ground container and receiving equipment.  
 Use explosion-proof equipment.  
 Use non-sparking tools.  
 Take precautionary measures against static discharge.  
 Wear protective clothing, gloves and eye protection.  
 Use personal protection equipment as required.  
 Do not breathe vapours.  
 Wash hands thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in well-ventilated area.  
 Avoid release to the environment.

**RESPONSE:**

In case of fire: Use dry chemical or alcohol foam for extinction.  
 Get medical advice/attention if you feel unwell. IF exposed: Get medical advice/attention.  
 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF ON SKIN: Wash with plenty of soap and water.  
 If skin irritation occurs: Get medical advice/attention.  
 Take off contaminated clothing and wash before reuse.  
 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor physician if you feel unwell.  
 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: Get medical advice/attention.

**STORAGE:**

Store locked up.  
 Store in well ventilated place. Keep container tightly closed

**DISPOSAL:**

Dispose of substance and packaging through a licensed waste contractor and in accordance with the Hazardous Substances (Disposal) Regulations 2001 and local bylaws.

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### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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	CAS NO.	PROPORTION
TOLUENE	108-88-3	100%

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### Section 4 - FIRST AID MEASURES

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For advice, contact the National Poisons Centre (0800 764 766), or a doctor immediately.

#### INGESTION

If swallowed, do NOT induce vomiting. Rinse mouth. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.

#### EYE CONTACT:

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do after the first 5 minutes and continue rinsing. Get medical attention if irritation persists.

#### SKIN CONTACT:

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation persists, get medical attention.

#### INHALATION:

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if symptoms continue. Begin artificial respiration if breathing has stopped. Get immediate medical attention.

#### FIRST AID FACILITIES:

Provide eye baths and safety showers close to areas where splashing may occur.

#### MEDICAL ATTENTION:

Treat according to symptoms. Risk of aspiration to lungs. Gastric lavage should only be undertaken after endotracheal intubation.

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### Section 5 - FIRE FIGHTING MEASURES

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<b>FLASH POINT:</b>	4°C
<b>FLAMMABLE LIMITS: LFL:</b>	1.2%
<b>UFL:</b>	8.0%

#### EXTINGUISHING MEDIA:

Dry chemical or alcohol foam. Do not use water jet.

#### FIRE AND EXPLOSION HAZARDS:

Liquid and vapours are highly flammable. Vapour is heavier than air, spreads along the ground and distant ignition is possible. Do not breathe smoke, gases or vapours generated in a fire. Expansion or decomposition of containers may lead to rupture of containers.

#### FIREFIGHTING EQUIPMENT:

Full protective clothing and self-contained breathing apparatus (SCBA).

In event of fire:

- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- If safe, switch off electrical equipment until vapour hazard removed.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

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### HAZARDS FROM COMBUSTION PRODUCTS:

Carbon dioxide, carbon monoxide.

HAZCHEM CODE: 3YE

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## Section 6 - ACCIDENTAL RELEASE MEASURES

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### EMERGENCY PROCEDURES AND CONTAINMENT:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity"

#### Minor spills:

- Remove or eliminate all ignition sources.
- Clean up spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labeled container suitable for flammables.
- Seal container and dispose of safely.

#### Major spills:

- Clear area of personnel and move upwind.
- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Eliminate sources of ignition, naked lights. No smoking.
- Increase ventilation.
- Water spray or fog may be used to disperse/absorb vapour.
- Use only spark-proof tools, e.g. shovels, and explosion proof equipment, e.g. pumps.
- Collect recoverable product into labeled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labeled drums for disposal.
- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

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## Section 7 - HANDLING AND STORAGE

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### HANDLING:

Read product label before use. This product is highly flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Material will accumulate static discharge. Use grounding leads to avoid discharge (electrical spark) spark-free tools and equipment suitable for flammables. Do not use plastic buckets. Use outdoors or in well-ventilated area. Wear personal protective equipment. Wash hands with soap and water after handling. Wash protective clothing separate to household laundry.

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**STORAGE:**

Keep out of reach of children. Store in a cool, dry place away from direct sunlight . This product will fuel a fire in progress. Check containers periodically for leaks or distortion.

**INCOMPATIBLE MATERIALS:**

Natural rubber, butyl rubber, EDPM, polystyrene.

### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	50	188	n/a	n/a

**BIOLOGICAL LIMIT VALUES:**

None established.

**ENGINEERING MEASURES:**

Do not breathe vapours. Use product outdoors or in well-ventilated area. The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation in confined spaces. Use explosion-proof ventilation equipment. Use personal protective respiratory equipment if concentrations in air are unknown, or meet or exceed Health Exposure Limits.

**RESPIRATORY PROTECTION:**

It is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product. Where concentrations in air may exceed the limits described in the Workplace Exposure Standards, use an appropriate positive pressure breathing apparatus.

**EYE PROTECTION:**

Protect eyes from splashes or vapour. It is recommended safety glasses with side shields or goggles be worn.

**SKIN/BODY PROECTION:**

Wear chemical resistant gloves if any risk of contact with liquid. It is also recommended to wear long sleeves and long trousers or coveralls, and chemical resistant shoes or boots.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, colourless liquid
ODOUR:	Characteristic
FLASH POINT:	4°C
BOILING POINT:	110°C
SPECIFIC GRAVITY at 20°C:	0.872 g/ml
VAPOUR PRESSURE at 20°C:	3.5 kPa
VAPOUR DENSITY at 20°C:	3.1 kPa
EXPLOSIVE LIMITS IN AIR:	1.2 – 8.0%
ALKALINITY/ACIDITY (as pH):	Not applicable
SOLUBILITY IN WATER:	0.515 kg/m <sup>3</sup>

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### Section 10 - STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:**

Stable at room temperature and pressure.

**CONDITIONS TO AVOID:**

Sources of heat and ignition, open flames.

**HAZARDOUS REACTIONS:**

Oxidizing agents, mineral acids, halogenated organic compounds and peroxides. In combination with ethyl alcohol will increase the risk of adverse health effects.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

No decomposition products except on burning. See "Fire Fighting Measures" and "Hazardous Reactions".

**HAZARDOUS POLYMERISATION:**

Not known to occur.

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### Section 11 - TOXICOLOGICAL INFORMATION

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ACUTE TOXICITY (INHALATION):	LC50 (rat) 12.5 - 28.8 mg/l
ACUTE TOXICITY (ORAL):	LD50 (rat) 636 mg/kg
ACUTE TOXICITY (DERMAL):	LD50 (rabbit) > 2000 mg/kg

**INGESTION:**

Harmful if swallowed. Will irritate throat and tube to stomach. May cause nausea. Aspiration into the lungs by ingestion or vomiting may result in chemical pneumonitis.

**EYE CONTACT:**

Irritating to eyes with possible symptoms of redness, swelling, burning sensation and blurred vision.

**SKIN CONTACT**

Harmful and irritating to skin. Prolonged or repeated exposure may cause dermatitis and will increase risk of dryness and cracking of skin.

**INHALATION:**

Harmful by inhalation. Vapour may be irritating to nose and throat. Exposure to high concentrations over an extended time will result in dizziness and drowsiness and other adverse central nervous system effects (nausea, headaches, loss of consciousness, coma and death).

**CHRONIC EFFECTS:**

Repeated over-exposure may cause haemolysis of the red blood cells leading to possible liver and kidney damage. There is evidence of potentially irreversible damage to the peripheral nervous system, particularly arms and legs. Prolonged contact with product will result in irritant contact dermatitis. Any existing dermatitis may be aggravated.

**OTHER HEALTH EFFECTS INFORMATION:**

Toluene is suspected of causing adverse effects to fertility or development.

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### Section 12 - ECOLOGICAL INFORMATION

#### TERRESTRIAL VERTEBRATE TOXICITY:

Harmful to terrestrial vertebrates.  
LD50 (rat) 636 mg/kg

#### AQUATIC TOXICITY:

Slightly harmful in the aquatic environment  
LC50 96h (Oncorhynchus mykiss Rainbow trout, donaldson trout) 5.8 mg/l  
EC50 48h (Daphnia magna) 11.5 mg/l  
EC50 72 hr (Selenastrum capricornutum) 12.500 mg/L

#### CHRONIC EFFECTS:

NOEC (Daphnia magna) 1 mg/L

#### BIOACCUMULATION AND DEGRADABILITY:

Does not bioaccumulate significantly. Product is expected to rapidly biodegrade.  
Octanol/water partition coefficient as log Pow: 2.69

#### MOBILITY:

Product floats on water. Evaporates rapidly. If product enters soil, it will be mobile and may contaminate ground-water.

### Section 13 - DISPOSAL CONSIDERATIONS

Dispose of substance and packaging through a licensed waste contractor and in accordance with the Hazardous Substances (Disposal) Regulations 2001 and local bylaws.

#### DISPOSAL METHODS:

This substance must be disposed of by—  
(a) exporting it from New Zealand as waste; or  
(b) treating it so that it is no longer a hazardous substance.

Treatment DOES NOT include include depositing this substance in a sewage facility. Packaging may still contain vapours that are flammable. Ensure that empty packaging is allowed to dry. If not recycled, puncture and crush before disposal to landfill. Do not use container for storage of other products.

### Section 14 - TRANSPORT INFORMATION

NZ LAND TRANSPORT

NZS 5433:2007

TRANSPORT OF DANGEROUS GOODS

UN Number: 1294

Proper Shipping Name: Toluene

DG Class: 3

Subsidiary Risk: None

Hazchem Code: 3YE

Packing Group: II

Poisons Schedule: 6



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### Section 15 - REGULATORY INFORMATION

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NEW ZEALAND:

This product may require: location and transit depot test certification; hazardous atmosphere zones; fire extinguishers; secondary containment, a response plan and/or signage depending on the quantity stored on site. Refer to Part Two (Site and Storage) of the Solvents (Flammable) Group Standard 2006 and Site and Storage Conditions for Class 3.1 Flammable Liquids published by ERMA, July 2006.

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### Section 16 - OTHER INFORMATION

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The information provided in this Safety Data Sheet relates only to the specific material designated herein. This substance is approved under HSNO for use as an industrial solvent.

Rebain International (NZ) Ltd assumes no liability for any damages related to the use or misuse of this substance.

References: Supplier SDS dated 20 May 2015  
Rebain GSR dated 20 January 2010 and HSNO CCID  
SDS Created: 22 March 2010  
Updated: 20 January 2016

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties.

Rebain International (NZ) Ltd has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject at the date quoted in section sixteen of the Safety Data Sheet. No warranty, guarantee or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine the environmental regulatory compliance obligations under any applicable New Zealand laws. In providing this disclaimer Rebain International (NZ) Ltd removes itself from any responsibility/liability of damages/harm caused by the information or lack thereof in this Safety Data Sheet document.

Abbreviations:

CAS No: Chemical Abstracts Number	EC50: Estimated concentration, 50 percent
ERMA: Environmental Risk Management Authority	HSNO: Hazardous Substances and New Organisms Act 1996
LC50: Lethal concentration, 50 percent	LD50: Lethal dose, 50 percent
LFL: Lower flammability limit	NOEC: No Observed Effect Concentration

NZS 5433: 2007: New Zealand Standard Transport of Dangerous Goods on Land	
STEL: Short Term Exposure Limit	TWA: Time Weighted Average
UFL: Upper flammability limit	WES: Workplace Exposure Standard



## Material Safety Data Sheet

Material Name: Butylclad Adhesive

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

Butylclad Adhesive

**Chemical Family**

Toluene, Acetone

**Product Use**

Butyl roofing Adhesives (Red) NZ

**Product Code**

SBA000

**Restrictions on Use**

For industrial use only.

**Supplier Information**

Viking Roofspec

80 Alexander Crescent, Otara, Auckland, New Zealand, Phone: 0800 729 799



## Material Safety Data Sheet

Material Name: Butylclad Adhesive

NZ POISONS CENTRE 0800 764 766 | NZ EMERGENCY SERVICES: 111 - THIS IS A SUMMARY ONLY - FULL REPORT AVAILABLE

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

### CRC 8064, 8066, 8068, 8070 Butyl Roofing Adhesive/Red (NZ)

INGREDIENTS	CAS NO	%	TWA
toluene	108-88-3	10-30	188 mg/m3
acetone	67-64-1	10-30	1185 mg/m3
hexane isomers	Not Available	10-30	-
performance additives	Not Available	1-10	-

**UN No: 1133**  
**Hazchem Code: 3YE**  
**DG Class: 3**  
**Subsidiary Risk: Not Applicable**  
**Packing Group: II**

#### HEALTH HAZARD INFORMATION



<b>Determined by Chemwatch using GHS/HSNO criteria</b>	3.1B, 6.1D (oral), 6.3A, 6.4A, 6.8B, 6.9 (narcotic), 6.9B (inhalation)
<b>Signal word:</b>	Danger
<b>Hazard statement(s):</b>	H225 Highly flammable liquid and vapour H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H361 Suspected of damaging fertility or the unborn child H336 May cause drowsiness or dizziness H373 May cause damage to organs through prolonged or repeated exposure

#### PRECAUTIONS FOR USE



<b>Appropriate engineering controls:</b>	Local Exhaust Ventilation recommended.
<b>Glasses:</b>	Consider chemical goggles.
<b>Gloves:</b>	1.PE/EVAL/PE 2.TEFLON 3.PVA
<b>Respirator:</b>	Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent) Store in cool, dry, protected area. Restrictions on Storage apply. Refer to Full Report.
<b>Storage and Transportation:</b>	Keep out of reach of children. Keep container in a well ventilated place. Keep away from food, drink and animal feeding stuffs. Keep away from sources of ignition. No smoking.
<b>Fire/Explosion Hazard:</b>	HIGHLY FLAMMABLE. Vapours/gas heavier than air. Toxic smoke/fumes in a fire. In case of fire and/or explosion, DO NOT BREATHE FUMES.

#### PROPERTIES

Liquid.  
 Does not mix with water.  
 Floats on water. Highly flammable.

#### EMERGENCY



#### FIRST AID

<b>Swallowed:</b>	Give water (if conscious). Seek medical advice. Do NOT give milk or oil. Do NOT give alcohol.
<b>Eye:</b>	Wash with running water.
<b>Skin:</b>	Remove contaminated clothing. Wash with soap & water.
<b>Inhaled:</b>	Fresh air. Rest, keep warm. If breathing shallow, give oxygen. Medical attention.
<b>Advice To Doctor:</b>	No antidote. Supportive care. Evaluate for respiratory distress. Consider lavage with cuffed tube. NO adrenalin.
<b>Fire Fighting:</b>	Keep containers cool. Foam.
<b>Spills and Disposal:</b>	Spilled liquid has low boiling temperature and evaporates quickly. Eliminate ignition sources. Consider evacuation. Prevent from entering drains. Contain spillage by any means. Control vapour with water spray/ fog. Absorb with dry agent. Stop leak if safe to do so. This material and its container must be disposed of in a safe way. To clean the floor and all objects contaminated by this material, use water and detergent.

#### SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS

**Material Safety Data Sheet**

Material Name: WeatherBond Multi Purpose Primer

302070

**Section 1 - PRODUCT AND COMPANY IDENTIFICATION****Material Name:**

WeatherBond Multi Purpose Primer

**Synonyms:**

Solvent-Based Primer

**Recommended Use:**

Cleaning and Priming EPDM Single-Ply Roofing Membranes

**Product Code:**

SEC034

**Restrictions on Use:**

Industrial use only

**Supplier Information**

Viking Roofspec

80 Alexander Crescent, Otara, Auckland, New Zealand, Phone: 0800 729 799

**Section 2 - HAZARDS IDENTIFICATION****Classification in accordance with paragraph (d) of 29 CFR 1910.1200**

Flammable Liquids - Category 2

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 2

**GHS Label Elements**

Symbol(s)

**Signal word**

:

**Danger****Hazard Statement(s)**

Highly flammable liquid and vapor

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation. May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

## Material Safety Data Sheet

Material Name: WeatherBond Multi Purpose Primer

302070

### Prevention

Keep container tightly closed  
 Keep away from heat/sparks/open flame/hot surfaces - No smoking  
 Ground/Bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting equipment  
 Take precautionary measures against static discharge  
 Use only non-sparking tools  
 Use only outdoors or in a well-ventilated area  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapours/spray  
 Wash thoroughly after handling

### Response

In case of fire: Use appropriate media to extinguish  
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash before reuse  
 Call a POISON CENTER or doctor if you feel unwell  
 Specific treatment (see label)

### Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
108-88-3	Toluene	60-100
64742-89-2	Heptane	5-10
Trade Secret	Phenolic resin	0.1-1
Trade Secret	Silicon adsorbent mixture	0.1-1
54914-37-3	Isophorondiamine-isobutyraldimine	0.1-1
Trade Secret	Dibutyltin dilaurate	<0.1

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## Section 4 - FIRST AID MEASURES

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### Description of Necessary Measures

If exposed or concerned: Call a POISON CENTER or doctor/physician.

### Inhalation

Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. Immediately call a POISON CENTER or doctor/physician.

**Material Safety Data Sheet**

Material Name: WeatherBond Multi Purpose Primer

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**Skin**

Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

**Eyes**

Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

If swallowed, do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

**Most Important Symptoms/Effects****Acute**

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to central nervous system.

**Delayed**

Prolonged exposure may cause liver, kidney and central nervous system damage.

**Note to Physicians**

Contains: toluene, heptane.

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**Section 5 - FIRE FIGHTING MEASURES**

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**Extinguishing Media****Suitable Extinguishing Media**

Dry chemical, foam or carbon dioxide. Water may be ineffective. Use water spray to keep containers cool.

**Unsuitable Extinguishing Media**

Do not use high-pressure water streams.

**Special Hazards Arising from the Chemical**

Can burn and explode easily when exposed to open flames or high heat.

**Hazardous Combustion Products**

Oxides of carbon

**Fire Fighting Measures**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

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**Section 6 - ACCIDENTAL RELEASE MEASURES**

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**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Use non-sparking tools. Dike for later disposal.

**Environmental Precautions**

Avoid release to the environment.

# Material Safety Data Sheet

Material Name: WeatherBond Multi Purpose Primer

302070

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Vapors will travel. Prevent vapors from entering buildings through open windows or ventilation systems. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid contact during pregnancy/while nursing. KEEP OUT OF REACH OF CHILDREN.

### Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed  
Keep cool  
Store locked up  
Keep away from heat and ignition sources. Keep away from incompatible materials. Do not cut, puncture, or weld on or near this container.

### Incompatible Materials

Strong oxidizing agents, acids, bases, amin

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

#### Toluene 108-88-3

ACGIH:	20 ppm TWA	
NIOSH:	100 ppm TWA; 375 mg/m <sup>3</sup> TWA	150 ppm STEL; 560 mg/m <sup>3</sup> STEL
	500 ppm IDLH	
Europe:	50 ppm TWA; 192 mg/m <sup>3</sup> TWA	100 ppm STEL; 384 mg/m <sup>3</sup> STEL
	Possibility of significant uptake through the skin	
OSHA (US):	200 ppm TWA	300 ppm Ceiling
Mexico:	50 ppm TWA LMPE-PPT;	188 mg/m <sup>3</sup> TWA LMPE-PPT
	Skin - potential for cutaneous absorption	

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

#### Eye/face protection

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Skin Protection

Wear appropriate work clothing. Wear protective shoes. Recommended material: protective skin cream.

#### Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

#### Glove Recommendations

Wear appropriate chemical resistant gloves.

## Material Safety Data Sheet

Material Name: WeatherBond Multi Purpose Primer

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	dark liquid	Physical State	liquid
Odor	hydrocarbon	Color	olive,green,dark gray
Odor Threshold	Not available	pH	Not available
Melting Point	-95 °C (-139 °F)	Boiling Point	90 - 111 °C (194-231°F)
Freezing point	Not available	Evaporation Rate	2.5
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	230 °C (475 °F)	Flash Point	-7.2 °C (19 °F)
Lower Explosive Limit	1 %	Decomposition	Not available
Upper Explosive Limit	7 %	Vapor Pressure	24.9 mmHg
Vapor Density (air=1)	3.2	Specific Gravity (water=1)	Not available
Water Solubility	Negligible	Partition coefficient: noctanol/ water	Not available
Viscosity	<200 cps	Solubility (Other)	Not available
Density	0.88 (relative)	VOC	727 g/L

#### Other Information

No additional information available.

### Section 10 - STABILITY AND REACTIVITY

#### Reactivity

No reactivity hazard is expected

#### Chemical stability

Stable under normal conditions of use.

#### Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### Conditions to avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

#### Incompatible materials

Strong oxidizing agents, acids, bases, amines

#### Hazardous decomposition products

Oxides of carbon

### Section 11 - TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

##### Inhalation

May cause respiratory irritation. May cause drowsiness or dizziness.

##### Skin Contact

Causes skin irritation.

**Material Safety Data Sheet**

Material Name: WeatherBond Multi Purpose Primer

302070

**Eye Contact**

Causes serious eye irritation.

**Ingestion**May cause gastrointestinal irritation.  
Acute and Chronic Toxicity**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

## Toluene (108-88-3)

Oral LD50 Rat 2600 mg/kg  
Dermal LD50 Rabbit 12000 mg/kg  
Inhalation LC50 Rat 30 - 35 mg/L 4

## Heptane (64742-89-8)

Oral LD50 Mouse 5000 mg/kg  
Dermal LD50 Rabbit 3000 mg/kg

## Silicon adsorbent mixture (Trade Secret)

Oral LD50 Rat >32000 mg/kg  
Dermal LD50 Rabbit >2000 mg/kg

## Dibutyltin dilaurate (Trade Secret)

Oral LD50 Rat 45 mg/kg  
Dermal LD50 Rabbit 630 mg/kg

## Isophorone diisocyanate (Trade Secret)

Oral LD50 Rat >20000 mg/kg  
Dermal LD50 Rabbit >2000 mg/kg  
Inhalation LC50 Rat 5 mg/L 4 h**Immediate Effects**

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to central nervous system.

**Delayed Effects**

Prolonged exposure may cause liver, kidney and central nervous system damage.

**Delayed Effects**

Prolonged exposure may cause liver, kidney and central nervous system damage.

**Irritation/Corrosivity Data**

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.



## Material Safety Data Sheet

Material Name: WeatherBond Multi Purpose Primer

302070

### Component Carcinogenicity

Toluene 108-88-3

ACGIH:

A4 - Not Classifiable as a Human Carcinogen

IARC:

Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

### Germ Cell Mutagenicity

No data available.

### Reproductive Toxicity

No data available.

### Specific Target Organ Toxicity - Single Exposure

Causes damage to central nervous system.

### Specific Target Organ Toxicity - Repeated Exposure

Prolonged exposure may cause liver, kidney and central nervous system damage.

### Aspiration hazard

May cause aspiration hazard.

### Medical Conditions Aggravated by Exposure

Aspiration into the lungs may cause chemical pneumonitis.

### Additional Data

No additional information available.

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## Section 12 - ECOLOGICAL INFORMATION

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### Ecotoxicity

Avoid release to the environment.

### Component Analysis - Aquatic Toxicity

Toluene 108-88-3

Fish:

LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old);

LC50 96 h Pimephales promelas 12.6 mg/L [static];

LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through];

LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static];

LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static];

LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static];

LC50 96 h Oryzias latipes 54 mg/L [static];

LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static];

LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]

Algae:

EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID;

EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA Invertebrate:

EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA;

EC50 48 h Daphnia magna 11.5 mg/L IUCLID

Heptane

64742-89-8

Algae:

EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID

Isophorone diisocyanate

Trade Secret

Fish:

LC50 96 h Oncorhynchus mykiss 9.22 mg/L Invertebrate:

EC50 48 h Daphnia magna 6.14 mg/L IUCLID

## Material Safety Data Sheet

Material Name: WeatherBond Multi Purpose Primer

302070

### Persistence and Degradability

No information available for the product.

### Bioaccumulative Potential

No information available for the product.

### Mobility

No information available for the product.

### Other Toxicity

No additional information available.

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## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

Shipping Name: Adhesives

Hazard Class: 3

UN/NA #: UN1133

Packing Group: II

Required Label(s): Red flammable liquid

### IATA Information:

Shipping Name: ADHESIVES

Hazard Class: 3

UN#: UN1133

Packing Group: II

Required Label(s): 3

### TDG Information:

Shipping Name: ADHESIVES

Hazard Class: 3

UN#: UN1133

Packing Group: II

Required Label(s):

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## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Toluene 108-88-3

SARA 313: 1 % de minimis concentration

CERCLA: 1000 lb final RQ; 454 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

Specific advice on controls required for materials used in New Zealand can be found at [www.epa.govt.nz/search-databases/Pages/controls-search.aspx](http://www.epa.govt.nz/search-databases/Pages/controls-search.aspx)

**Material Safety Data Sheet**

Material Name: WeatherBond Multi Purpose Primer

302070

**Section 16 - OTHER INFORMATION****HMIS Rating**

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

**NFPA Ratings**

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

New SDS: March 18, 2015

**Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

**Other Information****Disclaimer:**

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

**Material Name**

SureSeal® Lap Sealant

**Synonyms**

Industrial Sealant

**Chemical Family**

Solvent Based Sealant

**Product Use**

Sealant for EPDM Single-Ply Roofing Membranes

**Product Code**

SES012A

**Restrictions on Use**

For industrial use only.

**Supplier Information**

Viking Roofspect

80 Alexander Crescent, Otara, Auckland, New Zealand, Phone: 0800 729 799

### Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 2

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (lungs, central nervous system)

**GHS Label Elements**

**Symbol(s)**



Signal Word : Danger

Hazard Statement(s) : Highly flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation. May cause drowsiness or dizziness  
Causes damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

### Prevention

- Keep container tightly closed
- Keep away from heat/sparks/open flame/hot surfaces - No smoking
- Ground/Bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting equipment
- Take precautionary measures against static discharge
- Use only non-sparking tools
- Use only outdoors or in a well-ventilated area
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapours/spray
- Wash thoroughly after handling
- Do not eat, drink or smoke when using this product

### Response

- In case of fire: Use appropriate media to extinguish
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- Call a POISON CENTER or doctor if you feel unwell
- Specific treatment (see label)

### Storage

- Store in a well-ventilated place. Keep cool
- Keep container tightly closed
- Store locked up

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
Not applicable	Ground coal	1-5
Trade Secret	Silica compound	1-5
Trade Secret	Severely hydrotreated paraffinic oil	3-7
1317-65-3	Limestone	10-30
Trade Secret	Carbon compound	1-5
Trade Secret	Polyphenol antioxidant	0.1-1
64742-89-8	Naphtha, petroleum, light aliphatic	10-30
Trade Secret	Polybutene	1-5
Mixture	Terpene phenolic resin	1-5
12001-26-2	Mica	0.1-1
64742-88-7	Solvent naphtha, petroleum, medium aliphatic	10-30

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

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### Section 4 - FIRST AID MEASURES

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#### Description of Necessary Measures

IF exposed or concerned: Get medical advice/attention.

#### Inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

#### Skin

Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention.

#### Eyes

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

#### Ingestion

If swallowed, get medical attention. Do NOT induce vomiting.  
Indication of any immediate medical attention and special treatment needed  
Treat symptomatically and supportively.  
Most Important Symptoms/Effects

#### Acute

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause gastrointestinal irritation.

#### Delayed

Causes damage to organs through prolonged or repeated exposure: lungs, central nervous system.

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### Section 5 - FIRE FIGHTING MEASURES

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#### Extinguishing Media

##### Suitable Extinguishing Media

Dry chemical, foam or carbon dioxide. Water may be ineffective.

##### Unsuitable Extinguishing Media

Do not use high-pressure water streams.

#### Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

#### Hazardous Combustion Products

Oxides of carbon, oxides of nitrogen

#### Advice for firefighters

Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Take action to prevent static discharges.

#### Fire Fighting Measures

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

### Section 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear personal protective clothing and equipment, see Section 8.

**Methods and Materials for Containment and Cleaning Up**

Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

**Environmental Precautions**

Avoid release to the environment.

### Section 7 - HANDLING AND STORAGE

**Precautions for Safe Handling**

Keep away from heat/sparks/open flame/hot surfaces - No smoking. Do not eat or drink when using this product. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.

**Conditions for Safe Storage, Including any Incompatibilities**

Store in a well-ventilated place. Keep cool

Keep container tightly closed

Store locked up

Keep away from heat and ignition sources.

Keep away from incompatible materials. Do not cut, puncture, or weld on or near this container.

**Incompatible Materials**

Strong oxidizing agents, acids, bases

### Section 8 - EXPOSURE CONTROLS / PROTECTION

Component Exposure Limits	
<b>Silica compound</b>	Trade Secret
OSHA (US):	20 mppcf TWA; ((80))/(% SiO2) mg/m <sup>3</sup> TWA
Mexico:	10 mg/m <sup>3</sup> TWA LMPE-PPT
<b>Limestone oxide</b>	1317-65-3
NIOSH:	10 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable dust
OSHA (US):	15 mg/m <sup>3</sup> TWA total dust; 5 mg/m <sup>3</sup> TWA respirable fraction
Mexico:	10 mg/m <sup>3</sup> TWA LMPE-PPT   20 mg/m <sup>3</sup> STEL [LMPE-CT]

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

<b>Carbon Compound</b>	Trade Secret	
ACGIH:	3 mg/m <sup>3</sup> TWA inhalable fraction	
NIOSH:	3.5 mg/m <sup>3</sup> TWA; 0.1 mg/m <sup>3</sup> TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons) as PAH.	
	1750 mg/m <sup>3</sup> IDLH	
OSHA (US):	3.5 mg/m <sup>3</sup> TWA	
Mexico:	3.5 mg/m <sup>3</sup> TWA LMPE-PPT fume	7 mg/m <sup>3</sup> STEL [LMPE-CT]
<b>Mica</b>	12001-26-2	
ACGIH:	3 mg/m <sup>3</sup> TWA respirable fraction	
NIOSH:	3 mg/m <sup>3</sup> TWA (containing <1% Quartz) respirable dust	1500 mg/m <sup>3</sup> IDLH (containing <1% Quartz)
OSHA (US);	20 mppcf TWA (<1% Crystalline silica)	
Mexico:	3 mg/m <sup>3</sup> TWA LMPE-PPT respirable fraction	
<b>Silica, crystalline</b>	14808-60-7	
ACGIH;	0.025 mg/m <sup>3</sup> TWA respirable fraction	
NIOSH;	0.05 mg/m <sup>3</sup> TWA respirable dust	50 mg/m <sup>3</sup> IDLH respirable dust
OSHA (US);	((30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA) total dust; ((250)/(%SiO <sub>2</sub> + 5) mppcf TWA) respirable fraction; ((10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA) respirable fraction	
Mexico;	0.1 mg/m <sup>3</sup> TWA LMPE-PPT respirable fraction	

### Biological limit value

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits. Individual Protection Measures, such as Personal Protective Equipment

### Eye/face protection

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

### Skin Protection

Wear appropriate work clothing. Wear protective shoes. Recommended material: protective skin cream.

### Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

### Glove Recommendations

Wear appropriate chemical resistant gloves.



## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES INFORMATION

<b>Appearance</b>	Viscous paste	<b>Physical state</b>	liquid
<b>Odor</b>	hydrocarbon	<b>color</b>	Black
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	<18 °C (< 0 °F)	<b>Boiling Point</b>	119 - 185 °C (246-365 °F)
<b>Freezing point</b>	<18 °C	<b>Evaporation Rate</b>	3.5
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	No available
<b>Autoignition</b>	230 °C (446°F)	<b>Flash Point</b>	4.4 °C [TCC] (40 °F)
<b>Lower Explosive Limit</b>	0.8 %	<b>Decomposition</b>	No Available
<b>Upper Explosive Limit</b>	6.7 %	<b>Vapor Pressure</b>	8.27 mmHg
<b>Vapor Density (air=1)</b>	4	<b>Specific Gravity (water=1)</b>	1.03-1.04
<b>Water Solubility</b>	Negligible	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	1100000 cps	<b>Solubility (other)</b>	Hydrocarbons
<b>Density</b>	Not available	<b>VOC</b>	390-400 g/L

**Other Information**

No additional information available

### Section 10 - STABILITY AND REACTIVITY

**Reactivity**

No reactivity hazard is expected.

**Chemical Stability**

Stable under normal conditions of use.

**Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**Incompatible Materials**

Acids, bases, strong oxidizing agents

**Hazardous decomposition products**

Oxides of carbon, oxides of nitrogen

### Section 11 - TOXICOLOGICAL INFORMATION

**Information on Likely Routes of Exposure**

**Inhalation**

May cause drowsiness or dizziness. May cause respiratory irritation.

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

**Skin Contact**

Causes skin irritation.

**Eye Contact**

Causes serious eye irritation.

**Ingestion**

May cause gastrointestinal irritation.

**Acute and Chronic Toxicity**

**Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Severely hydrotreated paraffinic oil (Trade Secret)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Carbon compound (Trade Secret)

Oral LD50 Rat >15400 mg/kg

Polyphenol antioxidant (Trade Secret)

Oral LD50 Rat >200 mg/kg

Dermal LD50 Rabbit >5010 mg/kg

Naphtha, petroleum, light aliphatic (64742-89-8)

Oral LD50 Mouse 5000 mg/kg

Dermal LD50 Rabbit 3000 mg/kg

Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit 3000 mg/kg

Silica, crystalline (14808-60-7)

Oral LD50 Rat 500 mg/kg

**Immediate Effects**

Cause skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause gastrointestinal irritation.

**Delayed Effects**

Causes damage to organs through prolonged or repeated exposure: lungs, central nervous system.

**Irritation/Corrosivity Data**

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

It may cause sensitization in some individuals.

<b>Silica compound</b>	Trade Secret
IARC:	Monograph 68 [1997] (Group 3 (not classifiable))
<b>Carbon Compound</b>	Trade Secret
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 93 [1996] (Group 2B (possible carcinogenic to humans))
DFG:	Category 3 B (could be carcinogenic for man, inhalable fraction)
OSHA:	Present

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

<b>Silica, Crystalline</b>	14808-60-7
ACGIH:	A2-Suspected Human Carcinogen
IARC:	Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen (Respirable size)
DFG:	Category 1 (causes cancer in man, alveola fraction)
OSHA:	Present (respirable size)

### Germ Cell Mutagenicity

No data available.

### Reproductive Toxicity

No data available.

### Specific Target Organ Toxicity - Single Exposure

May affect the central nervous nervous system: drowsiness, dizziness.

### Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure: lungs, central nervous system.

### Aspiration hazard

May cause aspiration hazard.

### Medical Conditions Aggravated by Exposure

May cause allergic skin reaction. Aspiration into the lungs may cause chemical pneumonitis.

### Additional Data

This product contains crystalline silica, which is a known carcinogen. However, this component is bound by the polymer portion of the sealant. The only way this component would be released is through incineration. Therefore, this product is not considered a carcinogen.

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

### Secton 12- ECOLOGICAL INFORMATION

**Ecotoxicity**

Avoid release to the environment.

Component Analysis - Aquatic Toxicity	
<b>Severely hydrotreated paraffinic oil</b>	Trade Secret
Fish:	LC50 96 h Oncorhynchus mykiss >5000 mg/L
Invertebrate:	EC50 48 h Daphnia magna >1000 mg/L IUCLID
<b>Polyphenol antioxidant</b>	Trade Secret
Fish:	LC50 96 h Oncorhynchus mykiss >0.2 mg/L [semistatic]
Algae:	EC50 72 h Pseudokirchneriella subcapitata >0.2 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >0.2 mg/L IUCLID
<b>Naphtha, petroleum, light aliphatic</b>	64742-89-8
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID
<b>Solvent naphtha, petroleum, medium aliphatic</b>	64724-88-7
Fish:	LC50 96 h Pimephales promelas 800 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 450 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >100 mg/L IUCLID

**Persistence and Degradability**

No information available for the product.

**Bioaccumulative Potential**

No information available for the product.

**Mobility**

No information available for the product.

**Other Toxicity**

No additional information available

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

### Section 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 14 - TRANSPORT INFORMATION

**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**NZ Land Transport Information:**

Shipping Name: Adhesives

Hazard Class: 3

UN/NA #: UN1133

Packing Group: II

Required Label(s): 3

Additional information: Special Provisions (172.102): 149, B52, IB2, T4, TP1, TP8

IATA Information:

UN#: UN1133

IMDG Information:

UN#: UN1133

TDG Information:

UN#: UN1133

### Section 15 - REGULATORY INFORMATION

**REGULATIONS**

U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Silica compound	Trade Secret	NO	Yes	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes
Carbon compound	Trade Secret	Yes	Yes	Yes	Yes	Yes
Mica	12001-26-2	Yes	Yes	Yes	Yes	Yes
Solvent naphtha, petroleum, medium aliphatic	64742-88-7	No	No	No	Yes	No
Silica, Crystalline	14808-60-7	No	Yes	Yes	Yes	Yes

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Carbon compound	Trade Secret
Carc:	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)
Silica, crystalline	14808-60-7
Carc:	carcinogen, initial date 10/1/88 (airborne particles of respirable size)

### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure list. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Carbon compound	Trade Secret
	1%
Mica	12001-26-2
	1%
Silica, crystalline	14808-60-7
	1%

### Component Analysis - Inventory

Silica compound (Trade Secret)

US	CA	EU	AU	PH	JP-ISHL	KR-KECI/ KECL	KR-TCCA	CN	NZ	MX
No	DSL	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Severely hydrotreated paraffinic oil (Trade Secret)

US	CA	EU	AU	PH	JP-ENCS	JP- ISHL	KR-KECI/ KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	No

### Limestone (1317-65-3)

US	CA	EU	AU	PH	JP-ENCS	JP- ISHL	KR-KECI/ KECL	KR- TCCA	CN	NZ	MX
Yes	NSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

### Carbon compound (Trade Secret)

US	CA	EU	AU	PH	JP-ENCS	JP- ISHL	KR-KECI/ KECL	KR- TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

Polyphenol antioxidant (Trade Secret)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No

Naphtha, petroleum, light aliphatic (64742-89-8)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Polybutene (Trade Secret)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Mica (12001-26-2)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR KECI/KECL	KR-TCCA	CN	NZ	MX
No	DSL	No	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Silica, crystalline (14808-60-7)

US	CA	EU	AU	PH	JP-ENCS	JP-ISHL	KR KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Specific advice on controls required for materials used in New Zealand can be found at [www.epa.govt.nz/search-databases/Pages/controls-search.aspx](http://www.epa.govt.nz/search-databases/Pages/controls-search.aspx)

## Material Safety Data Sheet

Material Name: SureSeal® Lap Sealant

Product #: 302174

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### Section 16 - OTHER INFORMATION

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#### HMIS Rating

Health: 1 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

#### NFPA Ratings

Health: 1 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

New SDS: March 17, 2015

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

#### Other Information

##### Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.



## Material Safety Data Sheet

Material Name: BMA Solvent

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Material Name**

BMA Solvent

**Chemical Family**

Toluene, Acetone

**Product Use**

Solvent for roofing systems

**Product Code**

SES225

**Restrictions on Use**

For industrial use only.

**Supplier Information**

Viking Roofspec

80 Alexander Crescent, Otara, Auckland, New Zealand, Phone: 0800 729 799



## Material Safety Data Sheet

Material Name: BMA Solvent

NZ POISONS CENTRE 0800 764 766 | NZ EMERGENCY SERVICES: 111 - THIS IS A SUMMARY ONLY - FULL REPORT AVAILABLE

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

### CRC 8200, 8202, 8204, 8206, 8208 Solvent N (NZ)

INGREDIENTS	CAS NO	%	TWA
toluene	108-88-3	10-30	188 mg/m3
acetone	67-64-1	10-30	1185 mg/m3
naphtha petroleum, light aliphatic solvent	64742-89-8.	30-60	-
information to allow CHEMWATCH assessment.	Not Available	NotSpec.	-



UN No: 1993  
 Hazchem Code: •3YE  
 DG Class: 3  
 Subsidiary Risk: Not Applicable  
 Packing Group: II

#### HEALTH HAZARD INFORMATION



**Determined by Chemwatch using GHS/HSNO criteria**

3.1B, 6.1D (oral), 6.1E (aspiration), 6.3A, 6.4A, 6.8B, 6.9 (narcotic), 6.9B (inhalation)

**Signal word:** Danger

**Hazard statement(s):**

H225 Highly flammable liquid and vapour H302 Harmful if swallowed H315 Causes skin irritation H319 Causes serious eye irritation H361 Suspected of damaging fertility or the unborn child H336 May cause drowsiness or dizziness H373 May cause damage to organs through prolonged or repeated exposure H304 May be fatal if swallowed and enters airways

#### PRECAUTIONS FOR USE



**Appropriate engineering controls:**

Local Exhaust Ventilation recommended.

**Glasses:**

Consider chemical goggles.

**Gloves:**

1.PVDC/PE/PVDC 2.VITON 3.PVA

**Respirator:**

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

**Storage and Transportation:**

Store in cool, dry, protected area.  
 Restrictions on Storage apply. Refer to Full Report.  
 Keep out of reach of children.  
 Keep container in a well ventilated place.  
 Keep away from food, drink and animal feeding stuffs.  
 Keep away from sources of ignition. No smoking.

**Fire/Explosion Hazard:**

HIGHLY FLAMMABLE.  
 Toxic smoke/fumes in a fire.  
 In case of fire and/or explosion, DO NOT BREATHE FUMES.

#### PROPERTIES



Liquid.Highly flammable.

#### EMERGENCY



#### FIRST AID

**Swallowed:**

Give water (if conscious). Seek medical advice.  
 Do NOT give milk or oil.  
 Do NOT give alcohol.

**Eye:**

Wash with running water.

**Skin:**

Remove contaminated clothing. Wash with soap & water.

**Inhaled:**

Fresh air. Rest, keep warm. If breathing shallow, give oxygen. Medical attention.

**Advice To Doctor:**

No antidote. Supportive care.  
 Evaluate for respiratory distress. Consider lavage with cuffed tube. NO adrenalin.

**Fire Fighting:**

Keep containers cool.  
 Foam.

**Spills and Disposal:**

Spilled liquid has low boiling temperature and evaporates quickly.  
 Eliminate ignition sources.  
 Consider evacuation.  
 Prevent from entering drains.  
 Contain spillage by any means.  
 Control vapour with water spray/ fog.  
 Absorb with dry agent.  
 Stop leak if safe to do so.  
 This material and its container must be disposed of in a safe way.  
 To clean the floor and all objects contaminated by this material, use water and detergent.

#### SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS