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## Safety Data Sheet

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# OR 60BM, Part A

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### Section 1 – Identification

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SplatSeal Ltd  
1800 Commerce Street Ste A  
Boulder, CO 80301

Emergency Telephone: (800) 424-9300 CHEMTREC  
THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS

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### Section 2 – Hazards Identification

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#### GHS Classification

Acute toxicity (inhalation):	Category 4
Specific target organ toxicity- single exposure:	Category 3 (Respiratory system)
Respiratory sensitization:	Category 1
Skin irritation:	Category 2
Skin sensitization:	Category 1
Eye irritation:	Category 2B

#### GHS Label Elements

Hazard pictograms:



Signal word:            Danger

Hazard Statements:    Causes skin and eye irritation.  
                              May cause an allergic skin reaction.  
                              Harmful if inhaled.  
                              May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements:    **Prevention:**  
    Avoid breathing dust/fume/gas/mist/vapors/spray.  
    Wash skin thoroughly after handling.  
    Use only outdoors or in a well-ventilated area.  
    Contaminated work clothing should not be allowed out of the  
    workplace.  
    Wear protective gloves.  
    In case of inadequate ventilation wear respiratory protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor 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 skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Take off contaminated clothing and wash before reuse.

**Storage:**

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

Store locked up.

**Disposal:**

Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards: None known.

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### Section 3 – Hazards Identification

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**Hazardous Components**

Weight Percent	Components	CAS-No.
50-70%	4,4'-methylenediphenyl diisocyanate	101-68-8
30-50%	1,3-Butanediol, polymer with 1,1'-methylenebis[4-isocyanatobenzene], [(1-methyl-1,2-ethanediyl)bis(oxy)]bis[propanol] and 1,2-propanediol	70644-57-4
20-30%	Homopolymer of methylenediphenyl diisocyanate	25686-28-6
0.1-0.25%	2,6-di-tert-butyl-p-cresol	128-37-0

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

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### Section 4 – First Aid Measures

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**General advice:**

Move out of dangerous area.

Do not leave the victim unattended.

Get medical attention immediately if symptoms occur.

Show this safety data sheet to the doctor in attendance.

**If inhaled:**

If breathed in, move person into fresh air.

Call a physician or poison control center immediately.

Keep patient warm and at rest.

Keep respiratory tract clear.

If breathing is difficult, give oxygen.

If breathing is irregular or stopped, administer artificial respiration.

If unconscious, place in recovery position and seek medical advice.

Consult a physician immediately if symptoms such as shortness of breath or asthma is observed.

A hyper-reactive response to even minimal concentrations of Diisocyanates may develop in sensitized persons.

The exposed person may need to be kept under medical surveillance for 48 hours.

LC50 (rat): ca. 490 mg/m<sup>3</sup> (4 hours): using experimentally produced respirable aerosol having aerodynamic diameter <5microns.

**In case of skin contact:** In case of contact, immediately flush skin with soap and plenty of water.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before reuse.  
Thoroughly clean shoes before reuse.  
Call a physician if irritation develops or persists.  
An MDI study has demonstrated that a polyglycol-based skin cleanser (such as D-Tam™, PEG-400) or corn oil may be more effective than soap and water.

**In case of eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

**If swallowed:** Gently wipe or rinse the inside of the mouth with water.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Keep respiratory tract clear.  
Keep at rest.  
If a person vomits when lying on his back, place him in the recovery position.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

**Most important symptoms and effects, both**

**acute and delayed:** Severe allergic skin reactions, bronchospasm and anaphylactic shock  
This product is a respiratory irritant and potential respiratory sensitizer: repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization.  
Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing.  
The onset of the respiratory symptoms may be delayed for several hours after exposure.  
A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training.  
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
First Aid responders should pay attention to self-protection and use the recommended protective clothing

**Notes to physician:** Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.  
The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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## Section 5 – Fire Fighting Measures

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Foam

Carbon dioxide (CO<sub>2</sub>)  
Dry powder

**Unsuitable extinguishing media:** Water may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous.

**Specific hazards during firefighting:** Do not allow run-off from fire-fighting to enter drains or water courses.  
The pressure in sealed containers can increase under the influence of heat.  
Exposure to decomposition products may be a hazard to health.

**Hazardous combustion Products:** Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)

**Specific extinguishing methods:** Cool containers/tanks with water spray.

**Further information:** Standard procedure for chemical fires.  
Due to reaction with water producing CO<sub>2</sub>-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Special protective equipment for firefighters:** Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire-fighting gear.

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## Section 6 – Accidental Release Measures

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### **Personal precautions, protective equipment and emergency procedures:**

Immediately evacuate personnel to safe areas.  
Use personal protective equipment.  
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.  
Ensure adequate ventilation.  
Keep people away from and upwind of spill/leak.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For additional precautions and advice on safe handling, see section 7.  
Never return spills in original containers for re-use.  
Make sure that there is a sufficient amount of neutralizing/ absorbent material near the storage area.  
The danger areas must be delimited and identified using relevant warning and safety signs.  
Treat recovered material as described in the section "Disposal considerations".  
For disposal considerations see section 13.

**Environmental precautions:**

Do not allow uncontrolled discharge of product into the environment.  
Do not allow material to contaminate ground water system.  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods and materials for containment and cleaning up:**

Clean-up methods - small spillage  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Clean contaminated surface thoroughly.  
Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Neutralize small spillages with decontaminant.  
The compositions of liquid decontaminants are given in Section 16.  
Remove and dispose of residues.  
Clean-up methods - large spillage  
If the product is in its solid form:  
Spilled MDI flakes should be picked up carefully.  
The area should be vacuum cleaned to remove remaining dust particles completely.  
If the product is in its liquid form:  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Leave to react for at least 30 minutes.  
Shovel into open-top drums for further decontamination.  
Wash the spillage area with water.  
Test atmosphere for MDI vapor.  
Keep in suitable, closed containers for disposal.

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**Section 7 – Storage and Handling**

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**Technical measures:** Ensure that eyewash stations and safety showers are close to the workstation location.

**Local/Total ventilation:** Use only with adequate ventilation.

**Advice on protection against fire and explosion:** Normal measures for preventive fire protection.

**Advice on safe handling:** For personal protection see section 8.

Avoid formation of aerosol.  
Do not breathe vapors or spray mist.  
Do not breathe vapors/dust.  
Do not swallow.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Avoid exposure - obtain special instructions before use.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.

Keep container closed when not in use.

Open drum carefully as content may be under pressure.  
 Dispose of rinse water in accordance with local and national regulations.  
 Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**Conditions for safe storage:** Keep containers tightly closed in a dry, cool and well-ventilated place.  
 Keep in properly labelled containers.  
 Observe label precautions.  
 Protect from moisture.  
 Electrical installations / working materials must comply with the technological safety standards.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Materials to avoid:** Acids  
 Amines  
 Bases  
 Metals  
 water

### Section 8 – Exposure Controls/Personal Protection

#### Components with workplace control parameters

Components	CAS-No.	Value Type (Form of exposure)	Control parameters / Permissible concentration	Basis
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhalable fraction and vapor)	2 mg/m <sup>3</sup>	ACGIH

#### Personal protective equipment

**Respiratory protection:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  
 Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hand protection Remarks:** The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
 Protective gloves should be worn when handling freshly made polyurethane products to avoid contact with trace residual materials which may be hazardous in contact with skin.  
 Use chemical resistant gloves classified under Standard EN374: protective gloves against chemicals and microorganisms. Examples of glove materials that might provide suitable protection include: Butyl rubber, Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol copolymers laminated (“EVAL”), Polychloroprene (Neoprene\*), Nitrile/butadiene rubber (“nitrile” or “NBR”), Polyvinyl chloride (“PVC” or “vinyl”), Fluoroelastomer (Viton\*).

When prolonged or frequently repeated contact may occur, a glove with protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN374) is recommended.

When only brief contact is expected, a glove with protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN374) is recommended. Contaminated gloves should be decontaminated and disposed of.

Notice: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: other chemicals that may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as instructions/specifications provided by the glove supplier.

**Eye protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Chemical splash goggles.

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.

Ensure that eyewash stations and safety showers are close to the workstation location.

**Skin and body protection:** Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Recommended:

Overall (preferably heavy cotton) or Tyvek-Pro Tech 'C', Tyvek Pro 'F' disposable coverall.

**Protective measures:**

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Ensure that eye flushing systems and safety showers are located close to the working place.

**Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice.

Wash face, hands and any exposed skin thoroughly after handling.

Remove contaminated clothing and protective equipment before entering eating areas.

When using do not eat, drink or smoke.

Contaminated work clothing should not be allowed out of the workplace.

Wash hands before breaks and immediately after handling the product.

Wash hands before breaks and at the end of workday.

## Section 9 – Physical Properties

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<b>Appearance:</b>	liquid
<b>Color:</b>	No data is available on the product itself.
<b>Odor:</b>	No data is available on the product itself.
<b>Odor Threshold:</b>	No data is available on the product itself.
<b>pH:</b>	No data is available on the product itself.
<b>Melting point/freezing point:</b>	-16.5 - -12.3 °C Method: Melting / Freezing Temperature
<b>Boiling point:</b>	No data is available on the product itself.
<b>Flash point:</b>	> 210 °C Method: Flash-Point, closed cup
<b>Evaporation rate:</b>	No data is available on the product itself.
<b>Flammability (solid, gas):</b>	No data is available on the product itself.
<b>Flammability (liquids):</b>	No data is available on the product itself.
<b>Upper explosion limit:</b>	No data is available on the product itself.
<b>Lower explosion limit:</b>	No data is available on the product itself.
<b>Vapor pressure:</b>	0.0000245 hPa (20 °C) Method: Vapor Pressure
<b>Relative vapor density:</b>	No data is available on the product itself.
<b>Relative density:</b>	No data is available on the product itself.
<b>Density:</b>	1.23 g/cm <sup>3</sup> (20 °C) Method: Relative Density
<b>Solubility(ies)</b>	
<b>Water solubility</b>	
<b>Solubility in other solvents:</b>	No data is available on the product itself.
<b>Partition coefficient: n-octanol/water:</b>	log Pow: 15.98 (20 °C) GLP: no
<b>Auto-ignition temperature:</b>	No data is available on the product itself.
<b>Thermal decomposition:</b>	No data is available on the product itself.
<b>Self-Accelerating decomposition temperature (SADT):</b>	No data is available on the product itself.
<b>Viscosity</b>	
<b>Viscosity, kinematic:</b>	370 mm <sup>2</sup> /s (20 °C)
<b>Explosive properties:</b>	No data is available on the product itself.
<b>Oxidizing properties:</b>	None.
<b>Particle size:</b>	No data is available on the product itself.

## Section 10 – Stability and Reactivity

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<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Reaction with water (moisture) produces CO <sub>2</sub> -gas. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with, and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas.



**Conditions to avoid:** Extremes of temperature and direct sunlight.  
Exposure to air or moisture over prolonged periods.

**Incompatible materials:** Acids  
Amines  
Bases  
Metals  
water

**Hazardous decomposition products:**  
Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke. Hydrocarbons Hydrogen cyanide (hydrocyanic acid) Burning produces noxious and toxic fumes.

## Section 11 – Toxicological Information

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**Information on likely routes of exposure:** No data is available on the product itself.

### Acute toxicity

**Acute oral toxicity - Product:** LD50 (Rat, female): > 5,000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes

**Acute inhalation toxicity - Product:** Acute toxicity estimate: 1.38 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

**Acute dermal toxicity - Product:** LD50 (Rabbit, male and female): > 9,400 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

**Acute toxicity (other routes of administration):** No data available

### Skin corrosion/irritation

**Product:** Species: Rabbit  
Assessment: Irritant  
Method: OECD Test Guideline 404  
Result: Irritating to skin.  
GLP: yes

### Serious eye damage/eye irritation

**Components:** 4,4'-methylenediphenyl diisocyanate:  
Species: Rabbit  
Result: Mild eye irritation

1,3-Butanediol, polymer with 1,1'-methylenebis[4-isocyanatobenzene], [(1-methyl-1,2-ethanediyl) bis(oxy)] bis[propanol] and 1,2-propanediol:  
Result: Mild eye irritation

Homopolymer of methylene diphenyl diisocyanate:  
Species: Rabbit  
Result: Mild eye irritation  
Method: OECD Test Guideline 405

2,6-di-tert-butyl-p-cresol:  
Species: Rabbit  
Assessment: No eye irritation

### **Respiratory or skin sensitization**

**Product:** Exposure routes: Respiratory Tract  
Species: Guinea pig  
Result: Causes sensitization.

Exposure routes: Skin  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Causes sensitization.

**Components:** 4,4'-methylenediphenyl diisocyanate:  
Assessment: May cause sensitization by inhalation and skin contact.

### **Germ cell mutagenicity**

**Product:**  
Genotoxicity in vitro: Concentration: ca 5000 ug/plate  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

**Product:**  
Genotoxicity in vivo: Application Route: Inhalation  
Exposure time: 3 Weeks  
Dose: 118 mg/m<sup>3</sup>  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### **Carcinogenicity**

**Product:**  
Remarks: Rats have been exposed for two years to a respirable aerosol of polymeric MDI which resulted in a chronic pulmonary irritation at high concentrations. Only at the top level (6 mg/m<sup>3</sup>), there was a significant incidence of a benign tumor of the lung (adenoma) and one malignant tumor (adenocarcinoma). There were no lung tumors at 1 mg/m<sup>3</sup> and no effects at 0.2 mg/m<sup>3</sup>. Overall, the tumor incidence, both benign and malignant, and the number of animals with the tumors were not different from controls. The increased incidence of lung tumors is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung, which occurred throughout the study. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur.

Species: Rat, (male and female)  
Application Route: Inhalation  
Exposure time: 24 month(s)  
Dose: 1 mg/m<sup>3</sup>  
Frequency of Treatment: 5 daily  
Method: OECD Test Guideline 453  
Result: negative

Carcinogenicity - Assessment: No data available

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:**

2,6-di-tert-butyl-p-cresol:

Effects on fertility: Species: Rat, male and female  
Application Route: Oral

**Product:**

Effects on fetal development: Species: Rat, male and female  
Application Route: Inhalation  
General Toxicity Maternal: No observed adverse effect level: 4 mg/m<sup>3</sup>  
Method: OECD Test Guideline 414  
Result: No teratogenic effects  
GLP: yes

Reproductive toxicity - Assessment: No data available

**STOT - single exposure**

**Components:** 4,4'-methylenediphenyl diisocyanate:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: May cause respiratory irritation.

1,3-Butanediol, polymer with 1,1'-methylenebis[4-isocyanatobenzene], [(1-methyl-1,2-ethanediyl) bis(oxy)] bis[propanol] and 1,2-propanediol:  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Homopolymer of methylene diphenyl diisocyanate:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: May cause respiratory irritation.

**STOT - repeated exposure**

No data available

### **Repeated dose toxicity**

**Product:** Species: Rat, male and female  
: 0.2 mg/m<sup>3</sup>  
Test atmosphere: dust/mist  
Exposure time: 2 yr.  
Number of exposures: 5 d  
Method: OECD Test Guideline 453

Species: Rat, male and female  
: 1 mg/m<sup>3</sup>  
Test atmosphere: dust/mist  
Exposure time: 2,160 h  
Number of exposures: 5 d  
Method: OECD Test Guideline 413

Repeated dose toxicity – Assessment: No data available

### **Aspiration toxicity**

No data available

### **Experience with human exposure**

General Information: No data available  
Inhalation: No data available  
Skin contact: No data available  
Eye contact: No data available  
Ingestion: No data available

### **Toxicology, Metabolism, Distribution**

No data available

### **Neurological effects**

No data available

### **Further information**

Ingestion: No data available

## **Section 12 – Ecological Information**

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### **Ecotoxicity**

Toxicity to fish - Product: LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to daphnia  
and other aquatic invertebrates

- Product: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 24 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202  
GLP: no

Toxicity to algae - Product: EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 1,640 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

**Components:**

2,6-di-tert-butyl-p-cresol:

M-Factor (Acute aquatic toxicity): 1

Toxicity to fish (Chronic toxicity)

- Product: GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

- Product: NOEC (Brachydanio rerio (zebrafish)): >= 10 mg/l

Exposure time: 21 d

Test Type: semi-static test

Test substance: Fresh water

Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity): No data available

Toxicity to microorganisms - Product: EC50 (activated sludge): > 100 mg/l

Exposure time: 3 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 209

GLP: no

Toxicity to soil dwelling organisms

- Product: EC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 336 h

Method: OECD Test Guideline 207

GLP: yes

Sediment toxicity: No data available

Toxicity to terrestrial organisms: No data available

Ecotoxicology Assessment

Acute aquatic toxicity: No data available

Chronic aquatic toxicity: No data available

Toxicity Data on Soil: No data available

Other organisms relevant to the environment: No data available

Plant toxicity: No data available

**Persistence and degradability**

Biodegradability - Product: Inoculum: Domestic sewage

Concentration: 30 mg/l

Result: Not biodegradable

Biodegradation: 0 %

Exposure time: 28 d

Method: Inherent Biodegradability: Modified MITI Test (II)

Biochemical Oxygen Demand (BOD): No data available

Chemical Oxygen Demand (COD): No data available

BOD/COD: No data available

ThOD: No data available

BOD/ThOD:	No data available
Dissolved organic carbon (DOC):	No data available
Physico-chemical removability:	No data available
Stability in water - Product:	Method: No information available. GLP: yes Remarks: see user defined free text Method: No information available. GLP: no Remarks: see user defined free text
Photodegradation:	No data available
Impact on Sewage Treatment:	No data available

**Bioaccumulative potential**

Bioaccumulation - Product:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 200 GLP: yes Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/ water - Product:	log Pow: 15.98 (20 °C) GLP: no

**Mobility in soil**

Mobility:	No data available
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**Components:**

2,6-di-tert-butyl-p-cresol:	
Distribution among environmental compartments:	Koc: 8183
Stability in soil:	No data available

**Other adverse effects**

Environmental fate and pathways:	No data available
Results of PBT and vPvB assessment:	No data available
Endocrine disrupting potential:	No data available
Adsorbed organic bound halogens (AOX):	No data available

**Hazardous to the ozone layer**

Ozone-Depletion Potential:	Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information:	No data available
Global warming potential (GWP):	No data available

**Section 13 – Disposal Consideration**

**Waste Disposal Method:**

Waste from residues:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
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Contaminated packaging: Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## Section 14 – Transportation Information

### International Regulations

#### IATA

Not regulated as dangerous goods

#### IMDG

Not regulated as dangerous goods

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplies.

### National Regulations

#### DOT Classification

UN/ID/NA Number: NA3082  
Proper shipping name: OTHER REGULATED SUBSTANCES, LIQUID, N.O.S.  
(Methylene Diphenyl Diisocyanate)  
Class: 9  
Packing group: III  
Labels: CLASS 9  
ERG Code: 171  
Marine pollutant: no

## Section 15 – Regulatory Information

### EPCRA – Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No	Component RQ (lbs.)	Calculated product RQ (lbs.)
4,4'-methylenediphenyl diisocyanate	101-68-8	5000	9081
Acetone	67-64-1	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards:** Acute Health Hazard

**SARA 313:** The following components are subject to reporting levels established by SARA Title III, Section 313:

4,4'-methylenediphenyl diisocyanate 101-68-8 50 - 70 %

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

4,4'-methylenediphenyl diisocyanate 101-68-8 55.055 %

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

CH INV:	The formulation contains substances listed on the Swiss Inventory, On the inventory, or in compliance with the inventory
DSL:	All components of this product are on the Canadian DSL
AICS:	Not in compliance with the inventory
NZIoC:	Not in compliance with the inventory
ENCS:	On the inventory, or in compliance with the inventory
KECI:	Not in compliance with the inventory
PICCS:	Not in compliance with the inventory
IECSC:	Not in compliance with the inventory
TCSI:	Not in compliance with the inventory
TSCA:	On the inventory, or in compliance with the inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**TSCA - 5(a) Significant New Use Rule List of Chemicals**

No substances are subject to a Significant New Use Rule.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

No substances are subject to TSCA 12(b) export notification requirements.

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**Section 16 – Other Information**

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The method of hazard communication for SplatSeal Ltd is comprised of Product Labels and Safety Data Sheets.

Contact:	Product Safety Department
Telephone:	720-275-7511
Version Date:	04/02/2015
SDS Version:	1.0

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Distributor of SplatSeal Ltd Polyurea

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