

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Alsan Flashing - Alsan Flashing Winter Part A  
Document code : CA U DRU SS FS 011  
Product group : Trade product

#### 1.2. Recommended use and restrictions on use

Product use : One-component bitumen/polyurethane waterproofing resin

#### 1.3. Supplier

Soprema Inc  
1640, Haggerty Street  
Drummondville, Quebec J2C 5P8  
Canada  
T +1 (877) 626-6688

#### 1.4. Emergency telephone numbers

Emergency numbers : Canutec : +1-888-CANUTEC (226-8832) (North America)  
Chemtrec: +1 (800) 424-9300  
Soprema: +1 (877) 626-6688

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS CA)

Flammable liquids, Category 2	H225	Highly flammable liquid and vapour.
Corrosive to metals, Category 1	H290	May be corrosive to metals.
Acute toxicity (inhalation:dust,mist) Category 2	H330	Fatal if inhaled.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2B	H320	Causes eye irritation
Respiratory sensitisation, Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351	Suspected of causing cancer (Inhalation, Dermal, oral).
Specific target organ toxicity – Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure (Inhalation, Dermal, oral).

Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

: Danger

Hazard statements (GHS CA)

: H225 - Highly flammable liquid and vapour.  
H290 - May be corrosive to metals.  
H315+H320 - Causes skin and eye irritation  
H317 - May cause an allergic skin reaction.  
H330 - Fatal if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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### Precautionary statements (GHS CA)

H351 - Suspected of causing cancer (Inhalation, Dermal, oral).  
H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation, Dermal, oral).

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P234 - Keep only in original container.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, lighting, ventilating equipment.  
P242 - Use only non-sparking tools.  
P243 - Take action to prevent static discharges.  
P260 - Do not breathe mist, spray, vapours.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - [In case of inadequate ventilation] wear respiratory protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P310 - Immediately call a POISON CENTER, a doctor.  
P314 - Get medical advice/attention if you feel unwell.  
P320 - Specific treatment is urgent (see supplemental first aid instruction on this label).  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER, a doctor.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use dry extinguishing powder, carbon dioxide (CO<sub>2</sub>), alcohol resistant foam to extinguish.  
P390 - Absorb spillage to prevent material damage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P406 - Store in corrosive resistant container with a resistant inner liner.  
P501 - Dispose of contents / container by a local waste disposal company according to regional regulations.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS CA)

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Asphalt	Asphalt	CAS-No.: 8052-42-4	30 – 60
toluene	toluene	CAS-No.: 108-88-3	10 – 20
butanone; ethyl methyl ketone	butanone; ethyl methyl ketone	CAS-No.: 78-93-3	5 – 10
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	CAS-No.: 101-68-8	5 – 10
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	CAS-No.: 13463-67-7	1 – 5
4-isocyanatosulphonyltoluene; tosyl isocyanate	4-isocyanatosulphonyltoluene; tosyl isocyanate	CAS-No.: 4083-64-1	0.1 – 1

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

<b>First-aid measures after inhalation</b>	: Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.
<b>First-aid measures after skin contact</b>	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
<b>First-aid measures after eye contact</b>	: 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.
<b>First-aid measures after ingestion</b>	: Call a poison center or a doctor if you feel unwell.
<b>First-aid measures general</b>	: Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: mild eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment	: Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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### 5.2. Unsuitable extinguishing media

No additional information available

### 5.3. Specific hazards arising from the hazardous product

Fire hazard	: Highly flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

### 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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### **SECTION 6: Accidental release measures**

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

No additional information available

#### **6.2. Methods and materials for containment and cleaning up**

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### **6.3. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection"

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up.

Incompatible materials : Metals.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

<b>toluene (108-88-3)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Toluene (Toluol)
OEL TWA	188 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
Notations and remarks	Substance may be readily absorbed through intact skin.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Toluene
VEMP (OEL TWA) [ppm]	20 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Toluene

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<b>toluene (108-88-3)</b>	
OEL TWA [ppm]	20 ppm
Notations and remarks	R (Adverse reproductive effect)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Toluene
OEL TWA [ppm]	20 ppm
Notations and remarks	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2022
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Toluene
OEL TWA [ppm]	20 ppm
Notations and remarks	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2022
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Toluene
OEL TWA [ppm]	20 ppm
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Toluene (toluol)
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	60 ppm
Notations and remarks	Skin
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>Asphalt (8052-42-4)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Asphalt (Petroleum; Bitumen) fume
OEL TWA	5 mg/m <sup>3</sup>
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Asphalt (petroleum) fumes
VEMP (OEL TWA)	5 mg/m <sup>3</sup>
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Asphalt (Bitumen) fume, as benzene-soluble aerosol

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<b>Asphalt (8052-42-4)</b>	
OEL TWA	0.5 mg/m <sup>3</sup> Inhalable
Notations and remarks	IARC group 2A carcinogen - Bitumens, occupational exposure to oxidized bitumens and their emissions during road paving. IARC group 2B carcinogen - Bitumens, occupational exposure to straight-run bitumens and their emissions during road paving
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Asphalt (Bitumen) fumes, as benzene-soluble aerosol
OEL TWA	0.5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: URT & eye irr. Notations: A4 (Not classifiable as a Human Carcinogen); BEIP
Regulatory reference	ACGIH 2022
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Asphalt (Bitumen) fumes, as benzene-soluble aerosol
OEL TWA	0.5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: URT & eye irr. Notations: A4 (Not classifiable as a Human Carcinogen); BEIP
Regulatory reference	ACGIH 2022
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Asphalt (Bitumen) fume, as benzene-soluble aerosol
OEL TWA	0.5 mg/m <sup>3</sup> (I - Inhalable fraction)
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Asphalt (bitumen) fume, as benzene soluble aerosol
OEL TWA	0.5 mg/m <sup>3</sup> (inhalable fraction)
OEL STEL	1.5 mg/m <sup>3</sup> (inhalable fraction)
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL TWA	10 mg/m <sup>3</sup>
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
VEMP (OEL TWA)	10 mg/m <sup>3</sup> Td
Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety

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<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)</b>	
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL TWA	10 mg/m <sup>3</sup> Total dust 3 mg/m <sup>3</sup> Respirable fraction
Notations and remarks	IARC group 2B carcinogen
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m <sup>3</sup> (Nanoscale particles. R - Respirable particulate matter) 2.5 mg/m <sup>3</sup> (Finescale particles. R - Respirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2022
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL TWA	10 mg/m <sup>3</sup>
Notations and remarks	LRT irr
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL TWA	0.2 mg/m <sup>3</sup> (Nanoscale particles. R - Respirable particulate matter) 2.5 mg/m <sup>3</sup> (Finescale particles. R - Respirable particulate matter)
Notations and remarks	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2022
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>butanone; ethyl methyl ketone (78-93-3)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK; 2-Butanone)
OEL TWA	590 mg/m <sup>3</sup>
OEL TWA [ppm]	200 ppm
OEL STEL	885 mg/m <sup>3</sup>

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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
OEL STEL [ppm]	300 ppm
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK, 2-Butanone)
VECD (OEL STEL)	300 mg/m <sup>3</sup>
VECD (OEL STEL) [ppm]	100 ppm
VEMP (OEL TWA)	150 mg/m <sup>3</sup>
VEMP (OEL TWA) [ppm]	50 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
OEL TWA [ppm]	50 ppm
OEL STEL [ppm]	100 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Notations and remarks	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Regulatory reference	ACGIH 2022
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Notations and remarks	URT irr; CNS & PNS impair
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Notations and remarks	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Regulatory reference	ACGIH 2022
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833



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<b>butanone; ethyl methyl ketone (78-93-3)</b>	
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	300 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Methylene bisphenyl isocyanate (Diphenylmethane-4,4'-diisocyanate; MDI)
OEL TWA	0.05 mg/m <sup>3</sup>
OEL TWA [ppm]	0.005 ppm
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Methylene bis(4-phenyl isocyanate) (MDI, 4,4'-Diphenylmethanediisocyanate)
VEMP (OEL TWA)	0.051 mg/m <sup>3</sup>
VEMP (OEL TWA) [ppm]	0.005 ppm
Notations and remarks	EM, S
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Methylene bisphenyl isocyanate (MDI)
OEL TWA [ppm]	0.005 ppm
OEL C [ppm]	0.01 ppm
Notations and remarks	S(R) (respiratory sensitization)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Methylene bisphenyl isocyanate (MDI)
OEL TWA [ppm]	0.005 ppm
Notations and remarks	TLV® Basis: Resp sens
Regulatory reference	ACGIH 2022
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Methylene bisphenyl isocyanate (MDI)
OEL TWA [ppm]	0.005 ppm
Notations and remarks	TLV® Basis: Resp sens
Regulatory reference	ACGIH 2022
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Isocyanates, organic compounds - Methylene bisphenyl isocyanate (MDI)
OEL TWA [ppm]	0.005 ppm
OEL C [ppm]	0.02 ppm

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4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Methylene bisphenyl isocyanate (MDI)
OEL TWA [ppm]	0.005 ppm
OEL STEL [ppm]	0.015 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Viscous liquid.  
Colour : brown  
Odour : Solvent  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Relative evaporation rate (ether=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : 80 °C  
Flash point : 10.5 °C  
Auto-ignition temperature : 505 °C

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Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1.07
Solubility	: insoluble in water. Water: 0 %
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 30000 mm <sup>2</sup> /s @40°C
Explosive limits	: No data available

### 9.2. Other information

VOC content	: 225 g/L
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### SECTION 10: Stability and reactivity

Reactivity	: Highly flammable liquid and vapour.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: metals.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Fatal if inhaled.

Alsan Flashing	
ATE CA (dust,mist)	0.146 mg/l/4h
Asphalt (8052-42-4)	
LD50 oral rat	≥ 5000 mg/kg Source: ECHA
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 94.4 mg/m <sup>3</sup> Source: ECHA
ATE CA (dust,mist)	0.05 mg/l/4h
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 6.82 mg/l Source: ECHA
4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)	
LD50 oral rat	2234 mg/kg Source: National Library of Medicine
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: other:
LC50 Inhalation - Rat (Vapours)	> 1290 mg/l Source: National Library of Medicine

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<b>4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)</b>	
ATE CA (oral)	2234 mg/kg bodyweight
<b>4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)</b>	
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)</b>	
pH	7 Source: ECHA
Serious eye damage/irritation	: Causes eye irritation.
<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)</b>	
pH	7 Source: ECHA
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer (Inhalation, Dermal, oral).
<b>toluene (108-88-3)</b>	
IARC group	3 - Not classifiable
<b>Asphalt (8052-42-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
<b>toluene (108-88-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>butanone; ethyl methyl ketone (78-93-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure (Inhalation, Dermal, oral).
<b>toluene (108-88-3)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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<b>4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified.
<b>Alsan Flashing</b>	
Viscosity, kinematic	30000 mm <sup>2</sup> /s @40°C
<b>toluene (108-88-3)</b>	
Animal studies and expert judgment for classification	False
<b>Asphalt (8052-42-4)</b>	
Animal studies and expert judgment for classification	False
<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)</b>	
Viscosity, kinematic	Not applicable
Animal studies and expert judgment for classification	False
<b>butanone; ethyl methyl ketone (78-93-3)</b>	
Animal studies and expert judgment for classification	False
<b>4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)</b>	
Animal studies and expert judgment for classification	False
<b>4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)</b>	
Animal studies and expert judgment for classification	False

Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : mild eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

<b>titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)</b>	
LC50 - Fish [1]	> 100 mg/l
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 50 mg/l Source: ECHA
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)</b>	
LC50 - Fish [1]	133 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	30 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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### 4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

EC50 72h - Algae [2]

25 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### 4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

Partition coefficient n-octanol/water (Log Pow)

2.34

### 12.4. Mobility in soil

### 4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)

### 12.5. Other adverse effects

Ozone : Not classified

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapours may accumulate in the container.

## SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

### 14.1. UN number

UN-No. (TDG) : UN1263  
DOT NA No : UN1263  
UN-No. (IMDG) : 1263  
UN-No. (IATA) : 1263

### 14.2. UN proper shipping name

Proper Shipping Name (TDG) : PAINT  
Proper Shipping Name (DOT) : Paint  
Proper Shipping Name (IMDG) : PAINT  
Proper Shipping Name (IATA) : Paint

### 14.3. Transport hazard class(es)

#### TDG

Transport hazard class(es) (TDG) : 3  
Hazard labels (TDG) : 3



#### DOT

Transport hazard class(es) (DOT) : 3  
Hazard labels (DOT) : 3

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### IMDG

Transport hazard class(es) (IMDG) : 3

Danger labels (IMDG) : 3



### IATA

Transport hazard class(es) (IATA) : 3

Danger labels (IATA) : 3



## 14.4. Packing group

Packing group (TDG) : II

Packing group (DOT) : II

Packing group (IMDG) : II

Packing group (IATA) : II

## 14.5. Environmental hazards

Other information : No supplementary information available.

## 14.6. Special precautions for user

### TDG

UN-No. (TDG) : UN1263

TDG Special Provisions : 59 - Substances that are listed by name in Schedule 1 must not be transported under this shipping name. Substances transported under this shipping name may contain not more than 20% nitrocellulose if the nitrocellulose contains not more than 12.6% nitrogen (by dry mass), 142 - The following shipping names may be used to meet the requirements of Part 3 (Documentation) and Part 4 (Dangerous Goods Safety Marks) when these dangerous goods are offered for transport in the same means of containment:

(a) "PAINT RELATED MATERIAL" may be used for a means of containment containing both paint and paint related material;

(b) "PAINT RELATED MATERIAL, CORROSIVE, FLAMMABLE" may be used for a means of containment containing both paint, corrosive, flammable, and paint related material, corrosive, flammable;

(c) "PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE" may be used for a means of containment containing both paint, flammable, corrosive, and paint related material, flammable, corrosive; and

(d) "PRINTING INK RELATED MATERIAL" may be used for a means of containment containing both printing ink and printing ink related material.

Explosive Limit and Limited Quantity Index : 5 L

Excepted quantities (TDG) : E2

Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Emergency Response Guide (ERG) Number : 128

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<b>DOT</b>	
UN-No.(DOT)	: UN1263
DOT Special Provisions (49 CFR 172.102)	: 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packagings may be increased to 5 L (1.3 gallons). 367 - For the purposes of documentation and package marking: a. The proper shipping name "Paint related material" may be used for consignments of packages containing "Paint" and "Paint related material" in the same package; b. The proper shipping name "Paint related material, corrosive, flammable" may be used for consignments of packages containing "Paint, corrosive, flammable" and "Paint related material, corrosive, flammable" in the same package; c. The proper shipping name "Paint related material, flammable, corrosive" may be used for consignments of packages containing "Paint, flammable, corrosive" and "Paint related material, flammable, corrosive" in the same package; and d. The proper shipping name "Printing ink related material" may be used for consignments of packages containing "Printing ink" and "Printing ink related material" in the same package. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. B131 - When transported by highway, rail, or cargo vessel, waste Paint and Paint related material (UN1263; PG II and PG III), when in plastic or metal inner packagings of not more than 26.5 L (7 gallons), are excepted from the marking requirements in §172.301(a) and (c) and the labeling requirements in §172.400(a), when further packed in the following specification and non-specification bulk outer packagings and under the following conditions:  a. Primary receptacles must conform to the general packaging requirements of subpart B of part 173 of this subchapter and may not leak. If they do leak, they must be overpacked in packagings conforming to the specification requirements of part 178 of this subchapter or in salvage packagings conforming to the requirements in §173.12 of this subchapter.  b. Primary receptacles must be further packed in non-specification bulk outer packagings such as cubic yard boxes, plastic rigid-wall bulk containers, dump trailers, and roll-off containers. Bulk outer packagings must be liquid tight through design or by the use of lining materials.  c. Primary receptacles may also be further packed in specification bulk outer packagings. Authorized specification bulk outer packagings are UN11G fiberboard intermediate bulk containers (IBC) and UN13H4 woven plastic, coated and with liner flexible intermediate bulk containers (FIBCs) meeting the Packing Group II performance level and lined with a plastic liner of at least 6 mil thickness.  d. All inner packagings placed inside bulk outer packagings must be blocked and braced to prevent movement during transportation that could cause the container to open or fall over. Specification IBCs and FIBCs are to be secured to a pallet. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F). TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 173
DOT Packaging Bulk (49 CFR 173.xxx)	: 242



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DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L  
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

### IMDG

Special provisions (IMDG) : 163, 367  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8, TP28  
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  
EmS-No. (Spillage) : S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

### IATA

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A72, A192  
ERG code (IATA) : 3L

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

#### toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Asphalt (8052-42-4)

Listed on the Canadian DSL (Domestic Substances List)

#### titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ] (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

#### butanone; ethyl methyl ketone (78-93-3)

Listed on the Canadian DSL (Domestic Substances List)

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**4-isocyanatosulphonyltoluene; tosyl isocyanate (4083-64-1)**

Listed on the Canadian DSL (Domestic Substances List)

**4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)**

Listed on the Canadian DSL (Domestic Substances List)

### **SECTION 16: Other information**

Issue date : 09/03/2023  
Revision date : 22/03/2023  
Supersedes : 09/03/2023

#### **Full text of H-statements:**

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H320	Causes eye irritation
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet (SDS), Canada - Toxyscan

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.