

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name or designation of the mixture	CIM 61TN Epoxy Resin
Registration number	-
Synonyms	None.
Issue date	27-July-2016
Version number	01

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

Identified uses	Epoxy Primer for CIM Elastomeric Urethanes
Uses advised against	None known.

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Company name	CIM INDUSTRIES INC	
Address	6900 NELMS STREET HOUSTON, TX 77061 United States	
Division	A CHASE CORPORATION COMPANY	
Telephone	General Assistance	800 543-3458
e-mail	info@chasecorp.com	
Contact person	Not available.	

1.4. Emergency telephone number	Chemtrec (US - 24 hrs)	800 424-9300
	Chemtrec (INTL - 24 hrs)	703-527-3887

### SECTION 2: Hazards identification

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

**Classification** F;R11, Xi;R36/37/38, R43, N;R51/53

The full text for all R-phrases is displayed in section 16.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapour.
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##### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

**Environmental hazards**

Hazardous to the aquatic environment,  
long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with  
long lasting effects.

**Hazard summary****Physical hazards**

Highly flammable.

**Health hazards**

Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact. Occupational exposure to the substance or mixture may cause adverse health effects.

**Environmental hazards**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Specific hazards**

None known.

**Main symptoms**

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**2.2. Label elements****Label according to Regulation (EC) No. 1272/2008 as amended****Contains:**

BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN (REACTION PRODUCT), Isopropyl alcohol, Methyl ethyl ketone, n-Butyl acetate

**Hazard pictograms****Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapour.  
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.  
P273 Avoid release to the environment.  
P280 Wear eye protection/face protection.  
P280 Wear protective gloves/eye protection/face protection.

**Response**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use appropriate media to extinguish.  
P391 Collect spillage.

**Storage**

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.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information**

53,5 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

2.3. Other hazards None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN (REACTION PRODUCT)	30 - < 40	25068-38-6 500-033-5	-	603-074-00-8	
<b>Classification:</b>	<b>DSD:</b> Xi;R36/38, R43, N;R51/53				
	<b>CLP:</b> Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411				
n-Butyl acetate	10 - < 20	123-86-4 204-658-1	01-2119485493-29-xxxx	607-025-00-1	
<b>Classification:</b>	<b>DSD:</b> R10, R66-67				
	<b>CLP:</b> Flam. Liq. 3;H226, STOT SE 3;H336, Aquatic Chronic 3;H412				
Isopropyl alcohol	1 - < 3	67-63-0 200-661-7	-	603-117-00-0	
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36, R67				
	<b>CLP:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
Methyl ethyl ketone	1 - < 3	78-93-3 201-159-0	01-2119457290-43-XXXX	606-002-00-3	#
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36, R66-67				
	<b>CLP:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
Xylenes	1 - < 3	Mixture 215-535-7	01-2119488216-32	601-022-00-9	#
<b>Classification:</b>	<b>DSD:</b> F;R11, Xn;R20/21-48/20, Xi;R38, R52/53				C
	<b>CLP:</b> Flam. Liq. 2;H225, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332, STOT RE 2;H373, Aquatic Chronic 3;H412				C

Other components below reportable levels 40 - < 50

#### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

#### Composition comments

The full text for all R- and H-phrases is displayed in section 16. Note: As supplied and during application the quartz, titanium dioxide and calcium silicate are bound within the CIM matrix. The quartz, titanium dioxide and calcium silicate are not in a respirable form and should not pose a hazard to the user.

## SECTION 4: First aid measures

#### General information

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 4.1. Description of first aid measures

##### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

##### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

##### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Highly flammable liquid and vapour.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
<b>6.3. Methods and material for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil etc) away from spilled material. This product is miscible in water.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	MAK	500 mg/m <sup>3</sup>	
	STEL	200 ppm	
		2000 mg/m <sup>3</sup>	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	MAK	800 ppm	
	STEL	295 mg/m <sup>3</sup>	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	Ceiling	590 mg/m <sup>3</sup>	
		200 ppm	
	MAK	480 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	MAK	100 ppm	Respirable dust.
	Titanium dioxide (CAS 13463-67-7)	0,15 mg/m <sup>3</sup>	Respirable dust.
		MAK	5 mg/m <sup>3</sup>
Xylenes	STEL	10 mg/m <sup>3</sup>	Respirable dust.
	MAK	221 mg/m <sup>3</sup>	
	STEL	50 ppm	
		442 mg/m <sup>3</sup>	
		100 ppm	

##### Belgium. Exposure Limit Values.

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	10 mg/m <sup>3</sup>	
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 mg/m <sup>3</sup>	
		400 ppm	
	TWA	500 mg/m <sup>3</sup>	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	200 ppm	
		900 mg/m <sup>3</sup>	
	TWA	300 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	600 mg/m <sup>3</sup>	
		200 ppm	
	TWA	964 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	200 ppm	
		723 mg/m <sup>3</sup>	
	TWA	150 ppm	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	0,1 mg/m <sup>3</sup>	
	TWA	10 mg/m <sup>3</sup>	
	STEL	442 mg/m <sup>3</sup>	
Xylenes	TWA	100 ppm	
		221 mg/m <sup>3</sup>	
	TWA	50 ppm	

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m <sup>3</sup>	
	TWA	980 mg/m <sup>3</sup>	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	885 mg/m <sup>3</sup>	
	TWA	590 mg/m <sup>3</sup>	

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

Components	Type	Value	Form
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
	TWA	710 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,07 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Respirable dust.
Xylenes	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3 50 ppm	

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	MAC	4 mg/m3	Respirable dust.
Isopropyl alcohol (CAS 67-63-0)	MAC	10 mg/m3 999 mg/m3	Total dust.
	STEL	400 ppm 1250 mg/m3	
		500 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	MAC	600 mg/m3	
	STEL	200 ppm 900 mg/m3	
		300 ppm	
n-Butyl acetate (CAS 123-86-4)	MAC	724 mg/m3	
	STEL	150 ppm 966 mg/m3	
Quartz (CAS 14808-60-7)	MAC	200 ppm 0,1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	STEL	4 mg/m3	
Xylenes	MAC	10 mg/m3 221 mg/m3	Total dust.
		50 ppm	
	STEL	442 mg/m3 100 ppm	

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	TWA	980 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	400 ppm 710 mg/m3	
		150 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	Ceiling	1000 mg/m3	
	TWA	500 mg/m3	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	Ceiling	900 mg/m3	
	TWA	600 mg/m3	
n-Butyl acetate (CAS 123-86-4)	Ceiling	1200 mg/m3	
	TWA	950 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Xylenes	Ceiling	400 mg/m3	
	TWA	200 mg/m3	

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	TLV	490 mg/m3	
		200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	TLV	145 mg/m3	
		50 ppm	
n-Butyl acetate (CAS 123-86-4)	TLV	710 mg/m3	
		150 ppm	
Quartz (CAS 14808-60-7)	TLV	0,3 mg/m3	Total
		0,1 mg/m3	Respirable.
Titanium dioxide (CAS 13463-67-7)	TLV	6 mg/m3	
Xylenes	TLV	109 mg/m3	
		25 ppm	

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	10 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3	
		250 ppm	
	TWA	350 mg/m3	
		150 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	700 mg/m3	
		150 ppm	
	TWA	500 mg/m3	
		100 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	
Xylenes	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	620 mg/m3	
		250 ppm	
	TWA	500 mg/m3	
		200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	300 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	960 mg/m3	
		200 ppm	
	TWA	720 mg/m3	
		150 ppm	
Quartz (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Dust.
Xylenes	STEL	440 mg/m3	
		100 ppm	
	TWA	220 mg/m3	

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
		50 ppm	

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	VLE	980 mg/m3	
		400 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	VLE	900 mg/m3	
		300 ppm	
	VME	600 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	VLE	940 mg/m3	
		200 ppm	
	VME	710 mg/m3	
		150 ppm	
Quartz (CAS 14808-60-7)	VME	0,1 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	VME	10 mg/m3	
Xylenes	VLE	442 mg/m3	
		100 ppm	
	VME	221 mg/m3	
		50 ppm	

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	TWA	600 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	TWA	480 mg/m3	
		100 ppm	
Xylenes	TWA	440 mg/m3	
		100 ppm	

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	AGW	500 mg/m3	
		200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	AGW	600 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	AGW	300 mg/m3	
		62 ppm	
Titanium dioxide (CAS 13463-67-7)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Xylenes	AGW	440 mg/m3	
		100 ppm	

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable
Isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	



**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	400 ppm 900 mg/m3	
	TWA	300 ppm 600 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	200 ppm 950 mg/m3	
	TWA	710 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	150 ppm 5 mg/m3	Respirable.
Xylenes	STEL	10 mg/m3 650 mg/m3	Inhalable
	TWA	150 ppm 435 mg/m3 100 ppm	

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	2000 mg/m3	
	TWA	500 mg/m3	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	600 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
	TWA	950 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable.
Xylenes	STEL	442 mg/m3	
	TWA	221 mg/m3	

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	TWA	490 mg/m3	
		200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm 145 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	50 ppm 700 mg/m3	
		150 ppm	
Quartz (CAS 14808-60-7)	TWA	0,3 mg/m3	Total dust.
Titanium dioxide (CAS 13463-67-7)	TWA	0,1 mg/m3 6 mg/m3	Respirable dust.
		6 mg/m3	
Xylenes	STEL	442 mg/m3	
	TWA	100 ppm 109 mg/m3 25 ppm	

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	

**Ireland. Occupational Exposure Limits Components**

Components	Type	Value	Form
n-Butyl acetate (CAS 123-86-4)	TWA	300 ppm 600 mg/m3	
	STEL	200 ppm 950 mg/m3	
Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)	TWA	200 ppm 710 mg/m3	Respirable dust.
	TWA	150 ppm 0,1 mg/m3	
Xylenes	STEL	442 mg/m3	Total inhalable dust.
	TWA	100 ppm 221 mg/m3 50 ppm	

**Italy. Occupational Exposure Limits Components**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	10 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	TWA	200 ppm	
	STEL	900 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	300 ppm 600 mg/m3	
	STEL	200 ppm 200 ppm	
Quartz (CAS 14808-60-7) Titanium dioxide (CAS 13463-67-7)	TWA	150 ppm	Respirable fraction.
	TWA	0,025 mg/m3 10 mg/m3	
Xylenes	STEL	442 mg/m3	
	TWA	100 ppm 221 mg/m3 50 ppm	

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment Components**

Components	Type	Value
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	TWA	350 mg/m3
	STEL	900 mg/m3
n-Butyl acetate (CAS 123-86-4) Titanium dioxide (CAS 13463-67-7)	TWA	300 ppm 200 mg/m3 67 ppm
	TWA	200 mg/m3
Xylenes	STEL	442 mg/m3
	TWA	100 ppm 221 mg/m3 50 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3	
	TWA	250 ppm 350 mg/m3	

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	150 ppm 900 mg/m3	
	TWA	300 ppm 600 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	200 ppm 700 mg/m3	
	TWA	150 ppm 500 mg/m3	
Quartz (CAS 14808-60-7)	TWA	100 ppm 0,1 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	
Xylenes	STEL	450 mg/m3 100 ppm	
	TWA	200 mg/m3 50 ppm	

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

Components	Type	Value
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 600 mg/m3
Xylenes	STEL	200 ppm 442 mg/m3
	TWA	100 ppm 221 mg/m3 50 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

Components	Type	Value
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 600 mg/m3
Xylenes	STEL	200 ppm 442 mg/m3
	TWA	100 ppm 221 mg/m3 50 ppm

**Netherlands. OELs (binding)**

Components	Type	Value	Form
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	590 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,075 mg/m3	Respirable dust.
Xylenes	STEL	442 mg/m3	
	TWA	210 mg/m3	

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	TLV	245 mg/m3	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	TLV	100 ppm 220 mg/m3	
	TLV	75 ppm 355 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TLV	75 ppm	
Quartz (CAS 14808-60-7)	TLV	0,3 mg/m3	Total dust.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Titanium dioxide (CAS 13463-67-7)	TLV	0,1 mg/m3 5 mg/m3	Respirable dust.
Xylenes	TLV	108 mg/m3 25 ppm	

**Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	1200 mg/m3	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	TWA	900 mg/m3	
	STEL	900 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	450 mg/m3	
	STEL	950 mg/m3	
Quartz (CAS 14808-60-7)	TWA	200 mg/m3	
	TWA	2 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	STEL	0,3 mg/m3	Respirable fraction.
	STEL	30 mg/m3	
Xylenes	TWA	10 mg/m3	Inhalable fraction.
	TWA	100 mg/m3	

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value	Form
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm 600 mg/m3	
Xylenes	STEL	200 ppm 442 mg/m3	
	TWA	100 ppm 221 mg/m3 50 ppm	

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	10 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	200 ppm	
	TWA	150 ppm	
Quartz (CAS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Xylenes	STEL	150 ppm	
	TWA	100 ppm	

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	500 mg/m3	
	TWA	203 ppm 200 mg/m3 81 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm	

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	Form
n-Butyl acetate (CAS 123-86-4)	TWA	600 mg/m <sup>3</sup> 200 ppm	Respirable fraction.
	STEL	950 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	200 ppm 715 mg/m <sup>3</sup>	
	STEL	150 ppm 0,1 mg/m <sup>3</sup>	
Titanium dioxide (CAS 13463-67-7)	TWA	15 mg/m <sup>3</sup>	
	STEL	10 mg/m <sup>3</sup>	
Xylenes	TWA	442 mg/m <sup>3</sup> 100 ppm	
	STEL	221 mg/m <sup>3</sup> 50 ppm	
	TWA	221 mg/m <sup>3</sup> 50 ppm	

**Romania. OELs/CMRs. Protection of workers from exposure to carcinogen and mutagen agents. Hotarâre Nr. 1093 din 16 august 2006, Annex 3**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Slovakia. OELs for carcinogens and mutagens. Regulation No. 46/2002 on carcinogenic and mutagenic substances**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 mg/m <sup>3</sup>	Respirable fraction.
	TWA	400 ppm 500 mg/m <sup>3</sup>	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	200 ppm 900 mg/m <sup>3</sup>	
	TWA	300 ppm 600 mg/m <sup>3</sup>	
n-Butyl acetate (CAS 123-86-4)	STEL	200 ppm 700 mg/m <sup>3</sup>	
	TWA	150 ppm 500 mg/m <sup>3</sup>	
Titanium dioxide (CAS 13463-67-7)	TWA	100 ppm 5 mg/m <sup>3</sup>	
	STEL	442 mg/m <sup>3</sup> 100 ppm	
Xylenes	TWA	221 mg/m <sup>3</sup> 50 ppm	

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	TWA	500 mg/m <sup>3</sup>	Respirable fraction.
	TWA	200 ppm 600 mg/m <sup>3</sup>	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	TWA	200 ppm 480 mg/m <sup>3</sup>	
	TWA	100 ppm 0,15 mg/m <sup>3</sup>	
n-Butyl acetate (CAS 123-86-4)	TWA	480 mg/m <sup>3</sup>	
	TWA	100 ppm 221 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	0,15 mg/m <sup>3</sup>	
	TWA	221 mg/m <sup>3</sup> 50 ppm	

**Spain. Occupational Exposure Limits Components**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	10 mg/m3	
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 mg/m3	
	TWA	400 ppm 500 mg/m3 200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	300 ppm 600 mg/m3 200 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	965 mg/m3	
	TWA	200 ppm 724 mg/m3 150 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Xylenes	STEL	442 mg/m3	
	TWA	100 ppm 221 mg/m3 50 ppm	

**Sweden. Occupational Exposure Limit Values Components**

Components	Type	Value	Form
Isopropyl alcohol (CAS 67-63-0)	STEL	600 mg/m3	
	TWA	250 ppm 350 mg/m3 150 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	300 mg/m3	
	TWA	100 ppm 150 mg/m3 50 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	700 mg/m3	
	TWA	150 ppm 500 mg/m3 100 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Total dust.
Xylenes	STEL	442 mg/m3	
	TWA	100 ppm 221 mg/m3 50 ppm	

**Switzerland. SUVA Grenzwerte am Arbeitsplatz Components**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	3 mg/m3	Respirable dust.
Isopropyl alcohol (CAS 67-63-0)	STEL	1000 mg/m3	
	TWA	400 ppm 500 mg/m3 200 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	590 mg/m3	
	TWA	200 ppm 590 mg/m3 200 ppm	

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
n-Butyl acetate (CAS 123-86-4)	STEL	960 mg/m3	
	TWA	200 ppm 480 mg/m3 100 ppm	
Quartz (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.
Xylenes	STEL	870 mg/m3	
	TWA	200 ppm 435 mg/m3 100 ppm	

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value	Form
CALCIUM SILICATE (CAS 1344-95-2)	TWA	4 mg/m3	Respirable dust.
Isopropyl alcohol (CAS 67-63-0)	STEL	10 mg/m3 1250 mg/m3	Inhalable dust.
	TWA	500 ppm 999 mg/m3 400 ppm	
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	899 mg/m3	
	TWA	300 ppm 600 mg/m3 200 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	966 mg/m3	
	TWA	200 ppm 724 mg/m3 150 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
Xylenes	STEL	10 mg/m3 441 mg/m3 100 ppm	Inhalable
	TWA	220 mg/m3 50 ppm	

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU**

Components	Type	Value
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 600 mg/m3 200 ppm
Xylenes	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Biological limit values**

**Czech Republic. Limit Values for Indicators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.**

Components	Value	Determinant	Specimen	Sampling time
Xylenes	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health**

Components	Value	Determinant	Specimen	Sampling time
Xylenes	5 mmol/l	Methylhippuric acids	Urine	*

\* - For sampling details, please see the source document.

**France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)**

Components	Value	Determinant	Specimen	Sampling time
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	2 mg/l	Méthyléthylcétone	Urine	*
Xylenes	1500 mg/g	Acides méthylhippuriques	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling time
Isopropyl alcohol (CAS 67-63-0)	25 mg/l	Aceton	Blood	*
	25 mg/l	Aceton	Urine	*
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	5 mg/l	2-Butanon	Urine	*
Xylenes	2000 mg/l	Methylhippur-(Tolur-) säure (alle Isomere)	Urine	*
	1,5 mg/l	Xylol	Blood	*

\* - For sampling details, please see the source document.

**Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices**

Components	Value	Determinant	Specimen	Sampling time
Xylenes	1500 mg/g	methyl hippuric acids	Creatinine in urine	*
	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

Components	Value	Determinant	Specimen	Sampling time
Xylenes	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	Xylene	Blood	*

\* - For sampling details, please see the source document.

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

Components	Value	Determinant	Specimen	Sampling time
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	2 mg/l	Metiletilcetona	Urine	*
Xylenes	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

Components	Value	Determinant	Specimen	Sampling time
Isopropyl alcohol (CAS 67-63-0)	25 mg/l	Aceton	Blood	*
	25 mg/l	Aceton	Urine	*
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	5 mg/l	2-Butanon (MEK)	Urine	*
Xylenes	1,5 g/g	Methyl-Hippursäure	Creatinine in urine	*
	1,5 mg/l	Xylol	Blood	*

\* - For sampling details, please see the source document.



**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

Components	Value	Determinant	Specimen	Sampling time
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)	70 umol/l	Butan-2-one	Urine	*
Xylenes	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no-effect level (DNEL)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls**

**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**General information** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**- Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

**Physical state** Liquid.

**Form** Viscous Liquid.

**Colour** Yellow.

**Odour** Solvent.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -78 °C (-108,4 °F) estimated

**Initial boiling point and boiling range** 126,1 °C (258,98 °F) estimated

**Flash point** -4,0 °C (24,8 °F)

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** 1,4 % estimated

**Flammability limit - upper (%)** 7,5 % estimated

**Explosive limit - lower (%)** 1 % v/v

<b>Explosive limit – upper (%)</b>	15 % v/v
<b>Vapour pressure</b>	1728,97 hPa estimated
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Very Slightly Soluble
<b>Solubility (other)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	> 450 °C (> 842 °F)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	
<b>Percent volatile</b>	19,5 % estimated
<b>Specific gravity</b>	1,6
<b>VOC (Weight %)</b>	240 g/l when mixed with the 61TN Hardener (per EPA Method 24)

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong acids. Strong oxidising agents. Powerful oxidizers. Nitrates. Halogens. Chlorine.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
<b>Symptoms</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### 11.1. Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction. May cause respiratory irritation.

<b>Components</b>	<b>Species</b>	<b>Test results</b>
Isopropyl alcohol (CAS 67-63-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12800 mg/kg
<b>Oral</b>		
LD50	Dog	4797 mg/kg
	Mouse	3600 mg/kg
	Rabbit	5,03 g/kg
	Rat	4,7 g/kg

Components	Species	Test results
Methyl ethyl ketone (CAS 78-93-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 8000 mg/kg
<b>Inhalation</b>		
LC50	Mouse	11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
<b>Oral</b>		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg
n-Butyl acetate (CAS 123-86-4)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Wistar rat	160 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	14000 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Reproductive toxicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Toxic to aquatic life with long lasting effects.

Components	Species	Test results
Isopropyl alcohol (CAS 67-63-0)		
<b>Aquatic</b>		
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) > 1400 mg/l, 96 hours
Methyl ethyl ketone (CAS 78-93-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow ( <i>Cyprinodon variegatus</i> ) > 400 mg/l, 96 hours
n-Butyl acetate (CAS 123-86-4)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 17 - 19 mg/l, 96 hours
Xylenes		
<b>Aquatic</b>		
Fish	LC50	Goldfish ( <i>Carassius auratus</i> ) 11 - 21,31 mg/l, 96 hours

Components	Species	Test results
	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	11,9 - 25,1 mg/l, 24 hours

\* Estimates for product may be based on additional component data not shown.

**12.2. Persistence and degradability** No data is available on the degradability of this product.

**12.3. Bioaccumulative potential**

**Partition coefficient**

**n-octanol/water (log Kow)**

Isopropyl alcohol	0,05
Methyl ethyl ketone	0,29
n-Butyl acetate	1,78
Xylenes	3,12 - 3,2

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not available.

**12.6. Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

**SECTION 14: Transport information**

**ADR**

<b>14.1. UN number</b>	UN1993
<b>14.2. UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C more than 110 kPa) (Methyl ethyl ketone, Isopropyl alcohol)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Hazard No. (ADR)</b>	33
<b>Tunnel restriction code</b>	D/E
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**RID**

<b>14.1. UN number</b>	UN1993
<b>14.2. UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa) (Methyl ethyl ketone, Isopropyl alcohol)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	Yes

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**ADN**

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** Flammable Liquid, ( [vapour pressure at 50 °c not more than 110 kpa])  
**14.3. Transport hazard class(es)**  
    **Class** 3  
    **Subsidiary risk** -  
    **Label(s)** 3  
**14.4. Packing group** II  
**14.5. Environmental hazards** Yes  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**IATA**

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** Flammable liquid, n.o.s. (METHYL ETHYL KETONE, ISOPROPYL ALCOHOL)  
**14.3. Transport hazard class(es)**  
    **Class** 3  
    **Subsidiary risk** -  
**14.4. Packing group** II  
**14.5. Environmental hazards** Yes  
**ERG Code** 3H  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft** Allowed with restrictions.  
**Cargo aircraft only** Allowed with restrictions.

**IMDG**

**14.1. UN number** UN1993  
**14.2. UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE, ISOPROPYL ALCOHOL), MARINE POLLUTANT  
**14.3. Transport hazard class(es)**  
    **Class** 3  
    **Subsidiary risk** -  
**14.4. Packing group** II  
**14.5. Environmental hazards**  
    **Marine pollutant** Yes  
**EmS** F-E, S-E  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Not established.

**ADN; ADR; IATA; IMDG; RID**



## Marine pollutant



### General information

IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Isopropyl alcohol (CAS 67-63-0)

Methyl ethyl ketone (CAS 78-93-3)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

Not listed.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended**

Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances**

BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN (REACTION PRODUCT) (CAS 25068-38-6)

Isopropyl alcohol (CAS 67-63-0)

Methyl ethyl ketone (CAS 78-93-3)

n-Butyl acetate (CAS 123-86-4)

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended**

BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN (REACTION PRODUCT) (CAS 25068-38-6)

Isopropyl alcohol (CAS 67-63-0)

Methyl ethyl ketone (CAS 78-93-3)

n-Butyl acetate (CAS 123-86-4)

**Directive 94/33/EC on the protection of young people at work, as amended**

BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN (REACTION PRODUCT) (CAS 25068-38-6)

#### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

R10 Flammable.  
R11 Highly flammable.  
R20/21 Harmful by inhalation and in contact with skin.  
R36 Irritating to eyes.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R36/38 Irritating to eyes and skin.  
R38 Irritating to skin.  
R43 May cause sensitisation by skin contact.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Revision information** None.

**Training information** Follow training instructions when handling this material.

**Issued by** Dan Libby

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