

## SAFETY DATA SHEET

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### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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#### 1.1. PRODUCT IDENTIFIER

Product name

**PARKETOLIT 1554A**



chemius.net/VpHc7

#### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Relevant identified uses

Adhesive for wood flooring - component A

Uses advised against

No information.

#### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer

MITOL, tovarna lepil, d.o.o., Sežana  
Address: Partizanska c. 78 Sežana, Slovenia  
Phone: +386 5 73 12 300  
Fax: +386 5 73 12 390  
E-mail: lilijana.kocjan@mitol.si  
Point of contact for safety info: Lilijana Kocjan Žorž

#### 1.4. EMERGENCY TELEPHONE NUMBER

112

+386 5 73 12 300 (8:00-16:00)

### SECTION 2. HAZARDS IDENTIFICATION

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#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.  
Skin Sens. 1A; H317 May cause an allergic skin reaction.  
Eye Dam. 1; H318 Causes serious eye damage.  
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

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### 2.2 LABEL ELEMENTS

#### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with national regulation.

#### 2.2.2. Contains:

blocked polyisocyanate (CAS: 2155840-39-2)

Cashew, nutshell liq. (CAS: 8007-24-7)

#### 2.2.3. Special provisions

As from 24 August 2023 adequate training is required before industrial or professional use.

### 2.3. OTHER HAZARDS

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1. SUBSTANCES

For mixtures see 3.2.

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### 3.2. MIXTURES

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
blocked polyisocyanate	2155840-39-2 - -	5-10	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Dam. 1; H318		-
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	25068-38-6 500-033-5 603-074-00-8	5-10	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 %	01-2119456619-26
hydrocarbons, C11-C12, isoalkanes, <2% aromatics	- 918-167-1 -	1-2,5	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413 EUH066		01-2119472146-39
hydrocarbons, C11-C13, isoalkanes, <2% aromatics	- 920-901-0 -	1-2,5	Asp. Tox. 1; H304 EUH066		01-2119456810-40
Cashew, nutshell liq.	8007-24-7 - -	0,1-<1	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Dam. 1; H318		-

## SECTION 4. FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

#### General notes

When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms occur, seek medical advice.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms persist seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation does not stop, seek professional medical treatment!

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Rinse mouth with water and drink 2-3 dl water in sips. Consult a physician. Show the physician the safety data sheet or label.

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

#### Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### Skin contact

Itching, redness, pain.

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

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### Eye contact

On contact with eyes causes serious damage.  
Discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.

### Ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.  
May cause nausea/vomiting and diarrhea.  
May cause abdominal discomfort.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

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## SECTION 5. FIREFIGHTING MEASURES

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### 5.1. EXTINGUISHING MEDIA

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

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### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

#### Hazardous combustion products

In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

### 5.3. ADVICE FOR FIREFIGHTERS

#### Protective actions

In case of fire evacuate the area. In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray.  
If possible remove containers from endangered area.

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation. No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Do not breathe vapour or mist. Avoid contact with skin and eyes. Evacuate the danger zone.

#### 6.1.2. For emergency responders

Use personal protective equipment.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

#### 6.3.1. For containment

Contain spillages with non-combustible absorbents, e.g. sand, earth, vermiculite, diatomaceous earth.

#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Clean contaminated area with water and detergent.

#### 6.3.3. Other information

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### 6.4. REFERENCE TO OTHER SECTIONS

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

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### 7.1. PRECAUTIONS FOR SAFE HANDLING

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation.

##### **Measures to prevent aerosol and dust generation**

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##### **Measures to protect the environment**

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#### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### 7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Keep in well closed containers. Keep away from moisture and water. Storage temperature: +5 - 25 °C.

#### 7.2.2. Packaging materials

Store only in original container.

#### 7.2.3. Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking.

#### 7.2.4. Storage class

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#### 7.2.5. Further information on storage conditions

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### 7.3. SPECIFIC END USE(S)

#### **Recommendations**

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#### **Industrial sector specific solutions**

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. CONTROL PARAMETERS

##### 8.1.1. Occupational exposure limit values

No information.

##### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

##### 8.1.3. DNEL/DMEL values

###### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Worker	dermal	short term (systemic effects)	8,3 mg/kg	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Worker	inhalation	short term (systemic effects)	12,3 mg/m <sup>3</sup>	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Worker	dermal	long term (systemic effects)	8,3 mg/kg	repeated
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Worker	inhalation	long term (systemic effects)	12,3 mg/m <sup>3</sup>	repeated
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Consumer	dermal	short term (systemic effects)	3,6 mg/kg	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Consumer	inhalation	short term (systemic effects)	0,75 mg/m <sup>3</sup>	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Consumer	oral	short term (systemic effects)	0,75 mg/kg	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Consumer	dermal	long term (systemic effects)	3,6 mg/kg	repeated
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Consumer	inhalation	long term (systemic effects)	0,75 mg/m <sup>3</sup>	repeated
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Consumer	oral	long term (systemic effects)	0,75 mg/kg	repeated

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### 8.1.4. PNEC values

#### For components

Name	Exposure route	Value	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	fresh water	0,006 mg/L	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	marine water	0,0006 mg/L	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	fresh water sediment	0,0005 mg/L	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	marine water sediment	0,00627 mg/kg	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	water treatment plant	10 mg/L	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	soil	0,0478 mg/kg	

## 8.2. EXPOSURE CONTROLS

### 8.2.1. Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Avoid contact with skin, eyes and clothes.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

### 8.2.2. Personal protective equipment

#### Eye and face protection

Safety glasses with side protection (EN 166).

#### Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Protective masks (EN 136) or half masks (EN 140) with filter A (EN 14387).

#### Thermal hazards

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### 8.2.3. Environmental exposure controls

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

-	<b>Physical state:</b>	liquid
-	<b>Colour:</b>	
-	<b>Odour:</b>	mild

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### Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	No information.
-	<b>Flash point</b>	No information.
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	No information.
-	<b>Explosion limits (vol%)</b>	No information.
-	<b>Vapour pressure</b>	No information.
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	No information.
-	<b>Solubility</b>	No information.
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	No information.
-	<b>Decomposition temperature</b>	No information.
-	<b>Viscosity</b>	No information.
-	<b>Explosive properties</b>	No information.
-	<b>Oxidising properties</b>	No information.

### 9.2. OTHER INFORMATION

-	<b>Remarks:</b>	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. REACTIVITY

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### 10.2. CHEMICAL STABILITY

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

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### 10.4. CONDITIONS TO AVOID

No special precautions required. Consider the directions for use and storage.

### 10.5. INCOMPATIBLE MATERIALS

Strong oxidising agents.

### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.



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### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

##### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	oral	LD <sub>50</sub>	rat		15000 mg/kg		
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	dermal	LD <sub>50</sub>	rabbit		> 23000 mg/kg		
hydrocarbons, C11-C12, isoalkanes, <2% aromatics (-)	oral	LD <sub>50</sub>	rat		> 5000 mg/kg	OECD 401	
hydrocarbons, C11-C12, isoalkanes, <2% aromatics (-)	dermal	LD <sub>50</sub>	rabbit		> 5000 mg/kg	OECD 402	
hydrocarbons, C11-C13, isoalkanes, <2% aromatics (-)	oral	LD <sub>50</sub>	rat		> 5000 mg/kg	OECD 401	
hydrocarbons, C11-C13, isoalkanes, <2% aromatics (-)	inhalation (vapours)	LC <sub>50</sub>	rat	8 h	> 5000 mg/l		
hydrocarbons, C11-C13, isoalkanes, <2% aromatics (-)	dermal	LD <sub>50</sub>	rabbit		> 5000 mg/kg	OECD 402	

##### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
blocked polyisocyanate (2155840-39-2)	rabbit		Irritating.		
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)			Irritating.		
Cashew, nutshell liq. (8007-24-7)	rabbit		Irritating.		

**Additional information:** Causes skin and eye irritation.

##### (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
blocked polyisocyanate (2155840-39-2)	rabbit		Corrosive.	OECD 405	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)			Irritating.		
Cashew, nutshell liq. (8007-24-7)	rabbit		Corrosive.	OECD 405	

**Additional information:** Causes serious eye damage.

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### (d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
blocked polyisocyanate (2155840-39-2)	dermal	guinea pig		Sensitizing.	OECD 406	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	dermal			May cause sensitisation by skin contact.		
Cashew, nutshell liq. (8007-24-7)	dermal	guinea pig		Sensitizing.	OECD 406	

**Additional information:** May cause an allergic skin reaction.

### (e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
blocked polyisocyanate (2155840-39-2)	in-vitro mutagenicity	Human (lymphocytes)		Negative.	OECD 473	
blocked polyisocyanate (2155840-39-2)	in-vitro mutagenicity	Salmonella typhimurium		Negative.	OECD 471	Ames test
blocked polyisocyanate (2155840-39-2)	in-vitro mutagenicity	Cell: Mammalian-Animal		Negative.	OECD 476	
Cashew, nutshell liq. (8007-24-7)	in-vitro mutagenicity	Human (lymphocytes)		Negative.	OECD 473	
Cashew, nutshell liq. (8007-24-7)	in-vitro mutagenicity	Salmonella typhimurium		Negative.	OECD 471	Ames test
Cashew, nutshell liq. (8007-24-7)	in-vitro mutagenicity	Cell: Mammalian-Animal		Negative.	OECD 476	

### (f) Carcinogenicity

No information.

### (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
blocked polyisocyanate (2155840-39-2)	Effects on fertility	NOAEL (P)	rat	54 days	150 mg/kg		OECD 422	
blocked polyisocyanate (2155840-39-2)	Effects on fertility	NOAEL (F1)	rat	54 days	1000 mg/kg		OECD 422	
blocked polyisocyanate (2155840-39-2)	Maternal toxicity	NOAEL	rat	54 days	150 mg/kg		OECD 422	
blocked polyisocyanate (2155840-39-2)	Developmental toxicity	NOAEL	rat	54 days	1000 mg/kg		OECD 422	
Cashew, nutshell liq. (8007-24-7)	Effects on fertility	NOAEL (P)	rat	54 days	150 mg/kg		OECD 422	
Cashew, nutshell liq. (8007-24-7)	Effects on fertility	NOAEL (F1)	rat	54 days	1000 mg/kg		OECD 422	
Cashew, nutshell liq. (8007-24-7)	Maternal toxicity	NOAEL	rat	54 days	150 mg/kg		OECD 422	
Cashew, nutshell liq. (8007-24-7)	Developmental toxicity	NOAEL	rat	54 days	1000 mg/kg		OECD 422	

### Summary of evaluation of the CMR properties

No information.

### (h) STOT-single exposure

No information.

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### (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
blocked polyisocyanate (2155840-39-2)	oral	NOAEL	rat	54 days		150 mg/kg		OECD 422	
Cashew, nutshell liq. (8007-24-7)	oral	NOAEL	rat	54 days		150 mg/kg		OECD 422	

### (j) Aspiration hazard

No information.

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### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1. TOXICITY

##### 12.1.1. Acute (short-term) toxicity

##### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
blocked polyisocyanate (2155840-39-2)	LL50	> 1000 mg/L	96 h	fish	<i>Cyprinodon variegatus</i>	OECD 203	
	LL <sub>50</sub>	> 1000 mg/L	48 h	Daphnia	<i>Acartia tonsa</i>		
	EL <sub>50</sub>	250 mg/L	72 h	algae	<i>Skeletonema costatum</i>		ISO 10253
	EC <sub>50</sub>	> 1000 mg/L	3 h	bacteria	Activated sludge	OECD 209	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	EC <sub>50</sub>	1,8 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EC <sub>50</sub>	11 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		
	LC <sub>50</sub>	2 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	EC <sub>50</sub>	> 42,6 mg/L	8 h	bacteria			
hydrocarbons, C11-C12, isoalkanes, <2% aromatics (-)	LL <sub>0</sub>	1000 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	EL <sub>0</sub>	1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EL <sub>0</sub>	1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>		
	NOELR	1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>		
hydrocarbons, C11-C13, isoalkanes, <2% aromatics (-)	LL <sub>0</sub>	1000 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	EL <sub>0</sub>	1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EL <sub>0</sub>	1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>		
	NOELR	1000 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>		
Cashew, nutshell liq. (8007-24-7)	LL50	> 1000 mg/L	96 h	fish	<i>Cyprinodon variegatus</i>	OECD 203	
	LL <sub>50</sub>	> 1000 mg/L	48 h	Daphnia	<i>Acartia tonsa</i>		
	EL <sub>50</sub>	250 mg/L	72 h	algae	<i>Skeletonema costatum</i>		ISO 10253
	EC <sub>50</sub>	> 1000 mg/L	3 h	bacteria	Activated sludge	OECD 209	

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### 12.1.2. Chronic (long-term) toxicity

#### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	NOEC	0,3 mg/l	21 days	crustaceans	<i>Daphnia magna</i>		

### 12.2. PERSISTENCE AND DEGRADABILITY

#### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

#### 12.2.2. Biodegradation

##### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
blocked polyisocyanate (2155840-39-2)	-			not readily biodegradable		
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	biodegradability	12 %	28 days		OECD 302 B/ISO 9888/EEC 92/69/V, C.9	
hydrocarbons, C11-C12, isoalkanes, <2% aromatics (-)	biodegradability	31,3 %	28 days			
hydrocarbons, C11-C13, isoalkanes, <2% aromatics (-)	biodegradability	31,3 %	28 days			
Cashew, nutshell liq. (8007-24-7)	biodegradability	96 %	28 days		OECD 301 D	

### 12.3. BIOACCUMULATIVE POTENTIAL

#### 12.3.1. Partition coefficient

##### For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Octanol-water (log Pow)	3,242	25 °C			

#### 12.3.2. Bioconcentration factor (BCF)

##### For components

Substance (CAS Nr.)	species	Organism	Value	Duration	Evaluation	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	BCF		100 – 3000				

### 12.4. MOBILITY IN SOIL

#### 12.4.1. Known or predicted distribution to environmental compartments

No information.

#### 12.4.2. Surface tension

No information.

#### 12.4.3. Adsorption/Desorption

##### For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight $\leq$ 700) (25068-38-6)	Soil	log KOC	500 – 2000			

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### 12.5. RESULTS OF PBT AND VPVB ASSESSMENT

No evaluation.

### 12.6. OTHER ADVERSE EFFECTS

No information.

### 12.7. ADDITIONAL INFORMATION

#### For product

Harmful to aquatic life with long lasting effects.  
Do not allow to reach ground water, water courses or sewage system.

## SECTION 13. DISPOSAL CONSIDERATIONS

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### 13.1. WASTE TREATMENT METHODS

#### 13.1.1. Product / Packaging disposal

##### Waste chemical

Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

##### Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

#### 13.1.2. Waste treatment-relevant information

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#### 13.1.3. Sewage disposal-relevant information

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#### 13.1.4. Other disposal recommendations

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## SECTION 14. TRANSPORT INFORMATION

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### 14.1. UN NUMBER

Not applicable.

### 14.2. UN PROPER SHIPPING NAME

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

### 14.3. TRANSPORT HAZARD CLASS(ES)

Not applicable.

### 14.4. PACKING GROUP

Not applicable.

### 14.5. ENVIRONMENTAL HAZARDS

NO.

### 14.6. SPECIAL PRECAUTIONS FOR USER

Not applicable.

### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

Not applicable.

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### SECTION 15. REGULATORY INFORMATION

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

##### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

#### 15.2. CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16. OTHER INFORMATION

#### Indication of changes

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#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre

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Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

### Key literature references and sources for data

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### List of relevant H phrases

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.  
EUH066 Repeated exposure may cause skin dryness or cracking.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.





## SAFETY DATA SHEET

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