

Trade name: ArmaFlex 520

Product no.: EUA

Current version: 3.0.1, issued: 20.02.2024 Replaced version: 3.0.0, issued: 08.09.2023 Region: GB

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

#### 1.1 Product identifier

Trade name

## **ArmaFlex 520**

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

#### Relevant identified uses of the substance or mixture

Adhesive for processing all flexible Armaflex insulation materials

For industrial and professional use only

#### Uses advised against

No data available.

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

#### **Address**

Armacell GmbH

Robert-Bosch-Straße 10 48153 Münster

Deutschland

Telephone no. +49 (0) 251 - 7603-200 Fax no. +49 (0) 251 - 7603-561 e-mail info.de@armacell.com

#### Information provided by / telephone

Dr. Heribert Quante, Tel.: +49 (0) 251 - 7603-227

## **Advice on Safety Data Sheet**

heribert.quante@armacell.com

#### **Address**

Armacell UK Ltd Mars Street OL9 6LY Oldham United Kingdom

email: info.armaform@armacell.com

#### 1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Eye Irrit. 2; H319 Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H336

#### **Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

#### Hazard pictograms







Signal word



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Danger

# Hazardous component(s) to be indicated on label:

cyclohexane ethyl-acetate

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

phenolic resin Rosin; colophony **Hazard statement(s)** 

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to a facility in accordance with local and national regulations.

#### 2.3 Other hazards

Vapours can form an explosive mixture with air.

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

**Hazardous ingredients** 

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	cyclohexane			
	110-82-7	Aquatic Acute 1; H400	0.00 - 40.00	wt%
	203-806-2	Aquatic Chronic 1; H410		
	601-017-00-1	Asp. Tox. 1; H304		
	-	Flam. Liq. 2; H225		
		Skin Irrit. 2; H315		
		STOT SE 3; H336		
2	ethyl-acetate			
	141-78-6	EUH066	20.00 - < 25.00	wt%
	205-500-4	Eye Irrit. 2; H319		
	607-022-00-5	Flam. Liq. 2; H225		
	01-2119475103-46	STOT SE 3; H336		
3	Hydrocarbons, C6-C7	, isoalkanes, cyclics, <5% n-hexane	pls. refer to footnote (2)	
	64742-49-0	Flam. Liq. 2; H225	0.00 - 40.00	wt%
	926-605-8	Asp. Tox. 1; H304		
	649-328-00-1	STOT SE 3; H336		
	01-2119486291-36	Aquatic Chronic 2; H411		
		EUH066		
4	acetone			
	67-64-1	Flam. Liq. 2; H225	10.00 - 20.00	wt%
	200-662-2	Eye Irrit. 2; H319		
	606-001-00-8	STOT SE 3; H336		
	01-2119471330-49	EUH066		
5	phenolic resin			



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	26022-00-4 607-846-5 -	Skin Sens. 1; H317	1.00	- 10.00	wt%
6	butanone				
	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	1.00	- 10.00	wt%
7	propan-2-ol				
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	1.00	- 2.50	wt%
8	Rosin; colophony				
	8050-09-7 232-475-7 650-015-00-7 01-2119480418-32	Skin Sens. 1; H317	0.10	- 1.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	Р			-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

When inhaled remove to fresh air and seek medical aid.

#### After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

#### After eve contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### After ingestion

Do not induce vomiting. Rinse the mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a doctor immediately.

# 4.2 Most important symptoms and effects, both acute and delayed

# **Symptoms**

Headache; Dizziness; Drowsiness; Nausea; Vomiting; redness

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Dry chemical extinguisher; Foam; Water spray jet

#### Unsuitable extinguishing media

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Nitrogen oxides (NOx); Hydrogen chloride (HCI); halogenated compounds

# 5.3 Advice for firefighters

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Use self-contained breathing apparatus. Wear full protective suit. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Containers close to fire should be transferred to a safe place.

#### **SECTION 6: Accidental release measures**

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Exclude sources of ignition and ventilate the area. Do not inhale vapours. Remove persons to safety. Ensure adequate ventilation.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

#### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. For personal protection see section 8.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin. Do not inhale vapours. Provide eye wash fountain in work area. Have emergency shower available.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. No sparking tools should be used. Vapours can form an explosive mixture with air. Take precautionary measures against electrostatic loading (earthing necessary during loading operations).

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

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Incompatible products

Substances to be avoided, see section 10.

# 7.3 Specific end use(s)

No data available.

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

# 8.1 Control parameters

## Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	cyclohexane	110-82-7		203-806-2	
	2006/15/EC				
	Cyclohexane				
	WEL long-term (8-hr TWA reference period)	700	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Cyclohexane				
	WEL short-term (15 min reference period)	1050	mg/m³	300	ppm
	WEL long-term (8-hr TWA reference period)	350	mg/m³	100	ppm
2	ethyl-acetate	141-78-6		205-500-4	



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	2017/164/EU				
	Ethyl acetate				
	WEL short-term (15 min reference period)	1468	mg/m³	400	ppm
	WEL long-term (8-hr TWA reference period)	734	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40		_		
	Ethyl acetate				
	WEL short-term (15 min reference period)			400	ppm
	WEL long-term (8-hr TWA reference period)			200	ppm
3	acetone	67-64-1		200-662-2	
	2000/39/EC				
	Acetone				
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Acetone				
	WEL short-term (15 min reference period)	3620	mg/m³	1500	ppm
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
4	butanone	78-93-3		201-159-0	
	2000/39/EC				
	Butanone				
	WEL short-term (15 min reference period)	900	mg/m³	300	ppm
	WEL long-term (8-hr TWA reference period)	600	mg/m³	200	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Butan-2-one				
	WEL short-term (15 min reference period)	899	mg/m³	300	ppm
	WEL long-term (8-hr TWA reference period)	600	mg/m³	200	ppm
	Comments	Sk, BMGV			
5	propan-2-ol	67-63-0		200-661-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Propan-2-ol				
	WEL short-term (15 min reference period)	1250	mg/m³	500	ppm
	WEL long-term (8-hr TWA reference period)	999	mg/m³	400	ppm
6	Rosin; colophony	8050-09-7		232-475-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Rosin-based solder flux fume	_			
	WEL short-term (15 min reference period)	0.15	mg/m³		
	WEL long-term (8-hr TWA reference period)	0.05	mg/m³		
	Comments	Sen			

# **DNEL, DMEL and PNEC values**

# **DNEL** values (worker)

No	Substance name			CAS / EC no	)
	Route of exposure	Exposure time	Effect	Value	
1	ethyl-acetate			141-78-6	
				205-500-4	
	dermal	Long term (chronic)	systemic	63	mg/kg/day
	inhalative	Long term (chronic)	systemic	734	mg/m³
	inhalative	Short term (acut)	systemic	1468	mg/m³
	inhalative	Long term (chronic)	local	734	mg/m³
	inhalative	Short term (acut)	local	1468	mg/m³
2	Hydrocarbons, C6-C7, is	soalkanes, cyclics, <5% n-hex	ane	64742-49-0	
		-		926-605-8	
	dermal	Long term (chronic)	systemic	13964	mg/kg/day
	inhalative	Long term (chronic)	systemic	5306	mg/m³
3	acetone			67-64-1	
				200-662-2	
	dermal	Long term (chronic)	systemic	186	mg/kg/day
	inhalative	Short term (acut)	local	2420	mg/m³
	inhalative	Short term (acut)	systemic	1210	mg/m³
4	butanone			78-93-3	
				201-159-0	
	dermal	Long term (chronic)	systemic	1161	mg/kg/day
	inhalative	Long term (chronic)	systemic	600	mg/m³
	inhalative	Short term (acut)	systemic	900	mg/m³
5	propan-2-ol			67-63-0	
				200-661-7	
	dermal	Long term (chronic)	systemic	888	mg/kg/day



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	inhalative	Long term (chronic)	systemic	500	mg/m³
6	Rosin; colophony			8050-09-7	
				232-475-7	
	dermal	Long term (chronic)	systemic	2.131	mg/kg bw/day
	inhalative	Long term (chronic)	local	10	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	0
	Route of exposure	Exposure time	Effect	Value	
1	ethyl-acetate	•	•	141-78-6	
	_			205-500-4	
	oral	Long term (chronic)	systemic	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic	37	mg/kg/day
	inhalative	Long term (chronic)	systemic	367	mg/m³
	inhalative	Short term (acut)	systemic	734	mg/m³
	inhalative	Long term (chronic)	local	367	mg/m³
	inhalative	Short term (acut)	local	734	mg/m³
2	Hydrocarbons, C6-C7, iso	alkanes, cyclics, <5% n-hexa	ane	64742-49-0	
				926-605-8	
	oral	Long term (chronic)	systemic	1301	mg/kg/day
	dermal	Long term (chronic)	systemic	1377	mg/kg/day
	inhalative	Long term (chronic)	systemic	1131	mg/m³
3	acetone			67-64-1	
				200-662-2	
	oral	Long term (chronic)	systemic	62	mg/kg/day
	dermal	Long term (chronic)	systemic	62	mg/kg/day
	inhalative	Long term (chronic)	systemic	200	mg/m³
4	butanone			78-93-3	
				201-159-0	
	oral	Long term (chronic)	systemic	31	mg/kg/day
	dermal	Long term (chronic)	systemic	412	mg/kg/day
	inhalative	Long term (chronic)	systemic	106	mg/m³
	inhalative	Short term (acut)	systemic	450	mg/m³
5	propan-2-ol			67-63-0	
				200-661-7	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m³
6	Rosin; colophony			8050-09-7	
				232-475-7	
	oral	Long term (chronic)	systemic	1.065	mg/kg/day
	dermal	Long term (chronic)	systemic	1.065	mg/kg bw/day
	inhalative	Long term (chronic)	systemic	35	mg/m³

# **PNEC** values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	ethyl-acetate		141-78-6	
		_	205-500-4	
	water	fresh water	0.24	mg/L
	water	marine water	0.024	mg/L
	water	fresh water sediment	1.15	mg/kg dry weight
	water	marine water sediment	0.115	mg/kg dry weight
	soil	-	0.148	mg/kg dry weight
	sewage treatment plant	-	650	mg/L
	secondary poisoning	-	0.2	g/kg
	with reference to: food			
2	acetone		67-64-1	
			200-662-2	
	water	fresh water	10.6	mg/L
	water	Aqua intermittent	21	mg/L
	water	marine water	1.06	mg/L
	water	fresh water sediment	30.4	mg/kg
	water	marine water sediment	3.04	mg/kg
	soil	-	29.5	mg/kg
	sewage treatment plant	-	100	mg/L
3	propan-2-ol		67-63-0	
			200-661-7	



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	water	fresh water	140.9	mg/L
	water	marine water	140.9	mg/L
	water	fresh water sediment	552	mg/L
	water	marine water sediment	552	mg/L
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/L
	secondary poisoning	-	160	mg/kg
	with reference to: food			
4	Rosin; colophony		8050-09-7 232-475-7	
	water	fresh water	0.0016	mg/L
	water	marine water	0.00016	mg/L
	water	fresh water sediment	0.007	mg/kg dry weight
	water	marine water sediment	0.0007	mg/kg dry weight
	water	Aqua intermittent	0.016	mg/L
	soil	-	0.00045	mg/kg dry weight
	sewage treatment plant	-	1000	mg/L

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

#### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator

AX

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

# Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

Material thickness > 0.7 mm
Inappropriate material nitrile rubber

Inappropriate material nitrile in inappropriate material PVC Inappropriate material viton

Inappropriate material Natural rubber, NR

#### Other

Fire-resistant antistatic protective clothing.

# **Environmental exposure controls**

No data available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

State of aggregation			
liquid			
Form			
liquid			
Colour			
white to beige			
Odour			
like solvents			
pH value			
No data available			
Boiling point / boiling range			
Value		55	°C
Source	supplier		
Melting point/freezing point			
No data available			



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Decomposition temperature				
No data available				
Flash point				
Value Source	supplier	-15	°C	
	Suppliel			
Ignition temperature No data available				
Auto-ignition temperature				
Value		235	°C	
Source	supplier			
Flammability Net applicable				
Not applicable Source	supplier			
Lower explosion limit				
Value		1	% vol	
Source	supplier			
Upper explosion limit				
Value Source	supplier	20	% vol	
	l anhhiiri			
Vapour pressure No data available				
Relative vapour density				
No data available				
Relative density				
Value Source	supplier	0.85		
	l anhhitei			
Density No data available				
Solubility in water				
Source	supplier			
Comments	immiscible			
Solubility				
No data available				
Partition coefficient n-octanol/water (log value)  No Substance name		CAS no.		EC no.
1 ethyl-acetate		141-78-6		205-500-4
log Pow			0.68	
Reference temperature Source	ECHA		25	°C
2 acetone	LOUIA	67-64-1		200-662-2
log Pow	2015		-0.23	
Method Source	QSAR ECHA			
3 butanone	LOUN	78-93-3		201-159-0
log Pow			0.3	
Reference temperature Method	OECD 117		40	°C
Source	ECHA ECHA			
4 propan-2-ol		67-63-0	0.05	200-661-7
log Pow Reference temperature			0.05 25	°C
Source	ECHA			
5 Rosin; colophony		8050-09-7	2.04	232-475-7
log Pow Reference temperature			3.01 20	°C
Method	EU Method A.8	8		
Source	ECHA			
Kinematic viscosity				
Value Reference temperature	>	1000 40	mm²/s °C	
Type	kinematic	70		
	•			



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Source	supplier			
Particle characteristics				
No data available				

#### 9.2 Other information

 •
Other information
VOC: 78 %

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

No data available.

# 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

### 10.3 Possibility of hazardous reactions

None, when used as directed.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

#### 10.5 Incompatible materials

No data available.

#### 10.6 Hazardous decomposition products

None if stored, handled and transported properly. In case of fire: see section 5.

# **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acut	te oral toxicity			
No	Substance name	(	CAS no.	EC no.
1	ethyl-acetate	1	41-78-6	205-500-4
LD50	0	>	5600	mg/kg bodyweight
Spec	cies	rat		
Sour	ce	ECHA		
2	acetone	6	7-64-1	200-662-2
LD50	)		5800	mg/kg bodyweight
Spec	cies	rat		
Sour	ce	ECHA		
Eval	uation/classification	Based on availab	le data, the classification	n criteria are not met.
3	butanone	7	8-93-3	201-159-0
LD50	0		2054	mg/kg bodyweight
Spec		rat		
Meth	nod	OECD 423		
Sour	rce	ECHA / Read acı	ross	
4	propan-2-ol	6	7-63-0	200-661-7
LD50	0		5840	mg/kg bodyweight
Spec	cies	rat		
Meth	nod	OECD 401		
Sour	rce	ECHA		
Eval	uation/classification	Based on availab	le data, the classification	n criteria are not met.
5	Rosin; colophony	8	050-09-7	232-475-7
LD50	0	>	2000	mg/kg bodyweight
Spec	cies	rat		
Meth	nod	OECD 423		
Sour	ce	ECHA		

Acut	Acute dermal toxicity					
No	Substance name		CAS no.		EC no.	
1	ethyl-acetate		141-78-6		205-500-4	
LD50	)	>		20000	mg/kg bodyweight	
Species		rabbit				
Sour	ce	ECHA				
2	acetone		67-64-1		200-662-2	
LD50	)	>		15800	mg/kg bodyweight	
Species		rabbit				
Sour	ce	ECHA				



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<u>-vai</u>	luation/classification Rosin; colophony	Based on ava	illable data, the c 8050-09-7	iassification ci	riteria are not met. 232-475-7
D5		>	8050-09-7	2000	mg/kg bodyweigh
	cies	rat		2000	mg/kg bodyweigi
•	hod	OECD 402			
Soul		ECHA			
•	to inhelational taxicity				
lo	te inhalational toxicity Substance name		CAS no.		EC no.
•0	acetone		67-64-1		200-662-2
.C5			0. 0	76	mg/l
	ation of exposure			4	h
State	e of aggregation	Vapour			
	cies	rat			
Sou		ECHA			
	luation/classification	Based on ava		lassification ci	riteria are not met.
<u>.</u> C5	propan-2-ol	>	67-63-0	10000	200-661-7
	o ation of exposure			6	ppmV h
	e of aggregation	Vapour		0	II II
	cies	rat			
Vieth		OECD 403			
Soul	rce	ECHA			
Eval	luation/classification	Based on ava	ilable data, the c	lassification c	riteria are not met.
Skir	n corrosion/irritation				
No.	Substance name		CAS no.		EC no.
Ī	ethyl-acetate		141-78-6		205-500-4
Spe	cies	rabbit			
Vieth	hod	OECD 404			
Sou		ECHA			
	luation	low-irritant	9-61-7-7-2	tarase e	dtanta ana na t
	luation/classification			lassification ci	riteria are not met.
2	Hydrocarbons, C6-C7, isoalkane		64742-49-0		926-605-8
ope: Meth	cies	rabbit OECD 404			
Soui		ECHA			
	luation	non-irritant			
	luation/classification		ilable data, the c	lassification ci	riteria are not met.
3	acetone		67-64-1		200-662-2
Spe	cies	guinea pig			
Sou		ECHA			
	luation	non-irritant			
	luation/classification	Based on ava	·	lassification ci	riteria are not met.
<u> </u>	butanone		78-93-3	4	201-159-0
	ation of exposure	rabbit		4	h
ope: Meth	cies nod	OECD 404			
Soui		ECHA / Read	across		
	luation	non-irritant	-		
5	propan-2-ol	·	67-63-0		200-661-7
	cies	rabbit			
		ECHA			
oui	luation	non-irritant			
Soui Eval			iliable data, the c	iassification ci	riteria are not met.
Soui Eval Eval	luation/classification	Based on ava			232-475-7
Soui Eval Eval	Rosin; colophony		8050-09-7		202 470 7
Soul Eval Eval	Rosin; colophony cies	rabbit			202 410 1
Sour Eval Eval Sper Meth	Rosin; colophony cies	rabbit OECD 404			202 470 7
Soul Eval Eval Spe Meth Soul	Rosin; colophony cies nod rce	rabbit			202 410 1
Sour Eval Eval Sper Meth Sour Eval	Rosin; colophony cies nod rce luation	rabbit OECD 404 ECHA			202 470 1
Sour Eval Eval Spec Meth Sour Eval	Rosin; colophony cies nod rce luation ous eye damage/irritation	rabbit OECD 404 ECHA	8050-09-7		
oui val val ped leth oui val	Rosin; colophony cies nod rce luation ous eye damage/irritation Substance name	rabbit OECD 404 ECHA	8050-09-7 CAS no.		EC no.
Soul Eval Sped Meth Soul Eval	Rosin; colophony cies nod rce luation  ous eye damage/irritation  Substance name ethyl-acetate	rabbit OECD 404 ECHA non-irritant	8050-09-7		
Souri Eval Eval Speci Meth Souri Eval	Rosin; colophony cies nod rce luation  ous eye damage/irritation Substance name ethyl-acetate cies	rabbit OECD 404 ECHA non-irritant	8050-09-7 CAS no.		EC no.
Soul Eval Eval Specification of the second o	Rosin; colophony cies nod rce luation  ous eye damage/irritation Substance name ethyl-acetate cies nod	rabbit OECD 404 ECHA non-irritant  rabbit OECD 405	8050-09-7 CAS no.		EC no.
Soul Eval Eval Spec Meth Soul Eval I Spec Meth Soul	Rosin; colophony cies nod rce luation  ous eye damage/irritation Substance name ethyl-acetate cies nod	rabbit OECD 404 ECHA non-irritant	8050-09-7 CAS no.		EC no.



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Method Source Evaluation	on	OECD 405 ECHA irritant	
	on/classification	Based on available data, the class	ssification criteria are met
	Itanone	78-93-3	201-159-0
Species Method Source Evaluation		rabbit OECD 405 ECHA irritant	
4 pro	opan-2-ol	67-63-0	200-661-7
Species Method Source Evaluation		rabbit OECD 405 ECHA irritant	
	on/classification	Based on available data, the class	ssification criteria are met.
5 Ro	osin; colophony	8050-09-7	232-475-7
Species Method Source Evaluation		rabbit OECD 405 ECHA non-irritant	

	•				
Respiratory or skin sensitisation					
No Substance name	CAS no.	EC no.			
1 ethyl-acetate	141-78-6	205-500-4			
Route of exposure	Skin				
Species	guinea pig				
Method	OECD 406				
Source	ECHA				
Evaluation	non-sensitizing				
2 acetone	67-64-1	200-662-2			
Route of exposure	Skin				
Species	guinea pig				
Source	ECHA				
Evaluation	non-sensitizing				
Evaluation/classification	Based on available data, the classification				
3 butanone	78-93-3	201-159-0			
Route of exposure	Skin				
Species	guinea pig				
Method	OECD 406				
Source	ECHA				
Evaluation	non-sensitizing				
4 propan-2-ol	67-63-0	200-661-7			
Route of exposure	Skin				
Species	guinea pig				
Method	OECD 406				
Source	ECHA				
Evaluation	non-sensitizing				
Evaluation/classification	Based on available data, the classification	criteria are not met.			
5 Rosin; colophony	8050-09-7	232-475-7			
Route of exposure	Skin				
Species	mouse				
Method	OECD 429				
Source	ECHA				
Evaluation	sensitizing				

Germ cell mutagenicity				
No Substance name	CAS no.	EC no.		
1 acetone	67-64-1	200-662-2		
Type of examination	in vitro gene mutation study in bacteria	a		
Species	Salmonella typhimurium			
Method	OECD 471			
Source	ECHA			
Evaluation/classification	Based on available data, the classifica	Based on available data, the classification criteria are not met.		
Type of examination	In vitro Mammalian Chromosomal Abe	In vitro Mammalian Chromosomal Aberration Test		
Species	Chinese hamster Ovary (CHO)			
Method	OECD 473			
Source	ECHA			
Evaluation/classification	Based on available data, the classifica	ation criteria are not met.		
Type of examination	in vitro gene mutation study in mamma	alian cells		
Species	Mouse lymphoma cells			



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Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2 butanone	78-93-3 201-159-0		
Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro Mammalian Chromosomal Aberration Test		
Species	rat		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro mammalian cell gene mutation test		
Species	Mouse lymphoma cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus		
Species	mouse		
Method	OECD 474		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3 propan-2-ol	67-63-0 200-661-7		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
4 Rosin; colophony	8050-09-7 232-475-7		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Parameter described			

	aanon, olaoomoanon	24004 011 414114210 4414, 410 0140011100	alon ontona ano mot mot		
Rep	roduction toxicity				
No	Substance name	CAS no.	EC no.		
1	acetone	67-64-1	200-662-2		
Rout	te of exposure	inhalational			
NOA	AEC .	220	0 ppm		
Туре	e of examination	Prenatal Developmental Toxicity Study	/		
Spec	cies	rat			
Meth	nod	OECD 414	DECD 414		
Source		ECHA			
Eval	uation/classification	Based on available data, the classification	Based on available data, the classification criteria are not met.		
2	butanone	78-93-3	201-159-0		
Rout	te of exposure	inhalational			
Туре	e of examination	Prenatal Developmental Toxicity Study	/		
Spec	cies	rat			
Method OECD 414					
Sour	rce	ECHA			
Eval	uation/classification	Based on available data, the classifica	tion criteria are not met.		

Carc	Carcinogenicity					
No	Substance name	CAS no.	EC no.			
1	acetone	67-64-1	200-662-2			
Rout	e of exposure	dermal				
Type of examination		Toxicity study				
Species		mouse				
Sour	ce	ECHA				
Evalu	uation/classification	Based on available data, the classification crit	eria are not met.			
2	butanone	78-93-3	201-159-0			
Source		ECHA				
Evalu	uation/classification	Based on available data, the classification crit	eria are not met.			

STO	STOT - single exposure					
No	Substance name	CAS no.	EC no.			
1	ethyl-acetate	141-78-6	205-500-4			
Rout	e of exposure	inhalational				
NOEC		350	ppm			
Spec		rat				
Source		ECHA				
Effec	ts	May cause drowsiness or dizziness.				



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Evaluation/classification	Based on available data, the classification or	riteria are met.
STOT - repeated exposure		
No Substance name	CAS no.	EC no.
1 acetone	67-64-1	200-662-2
Route of exposure	oral	
NOAEL	10000	ppm
Species	rat	
Method	OECD 408	
Source	ECHA	
Evaluation/classification	Based on available data, the classification or	riteria are not met.
Route of exposure	inhalational	
NOAEC	19000	ppm
Species	rat	
Source	ECHA	
Evaluation/classification	Based on available data, the classification or	riteria are not met.
2 butanone	78-93-3	201-159-0
Route of exposure	inhalational	
Species	rat	
Method	OECD 413	
Source	ECHA	
Evaluation/classification	Based on available data, the classification or	riteria are not met.
3 propan-2-ol	67-63-0	200-661-7
Route of exposure	inhalational	
Source	ECHA	
Evaluation/classification	Based on available data, the classification cr	riteria are not met.
Aspiration hazard		

## 11.2 Information on other hazards

**Endocrine disrupting properties** 

Based on available data, the classification criteria are not met.

No data available.

Other information

No data available.

# SECTION 12: Ecological information

# 12.1 Toxicity

Toxio	city to fish (acute)					
No	Substance name		CAS no.		EC no.	
1	ethyl-acetate		141-78-6		205-500-4	
LC50				220	mg/l	
Dura	tion of exposure			96	h	
Spec	cies	Pimephales pr	omelas			
Sour		ECHA				
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5°	% n-hexane	64742-49-0		926-605-8	
LL50				12	mg/l	
Dura	tion of exposure			96	h	
Spec		Oncorhynchus	mykiss			
Meth	od	OECD 203				
Sour	ce	ECHA				
3	acetone		67-64-1		200-662-2	
LC50				5540	mg/l	
	tion of exposure			96	h	
Spec		Oncorhynchus	mykiss			
Sour		ECHA				
Evalu	uation/classification	Based on avai		lassification cr	riteria are not met.	
4	butanone		78-93-3		201-159-0	
LC50				2973	mg/l	
	tion of exposure			96	h	
Spec		Pimephales pr	omelas			
Meth		OECD 203				
Sour		ECHA				
5	propan-2-ol		67-63-0		200-661-7	
LC50				9640	mg/l	
	tion of exposure			96	h	
Spec		Pimephales pr	omelas			
Meth	od	OECD 203				



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Species Method

Source

EC50

**Species** 

Method

Source

butanone

Duration of exposure

Rosin; colophony

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Sour	ce	ECHA				
6	Rosin; colophony		8050-09-7		232-475-7	
LC50				1.7	mg/l	
Dura	tion of exposure			96	h	
Spec		Pimephales pro	omelas			
Meth		OECD 203				
Sour	ce	ECHA				
Toxio	city to fish (chronic)					
No da	ata available					
Toxio	city to Daphnia (acute)					
No	Substance name		CAS no.		EC no.	
1	ethyl-acetate		141-78-6		205-500-4	
EC50				3090	mg/l	
	tion of exposure			24	h	
Spec		Daphnia magn	a			
Sour		ECHA	04740 40 0		000 005 0	
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5	% n-nexane	64742-49-0		926-605-8	
EL50	tion of exposure			3 48	mg/l h	
Dura Spec		Daphnia magn	a	40	II	
Sour		ECHA	u			
30ui	acetone	1 = 01 1/1	67-64-1		200-662-2	
C50				8800	mg/l	
	tion of exposure			48	h	
Spec		Daphnia pulex				
Sour		ECHA				
<u>Eva</u> lι	uation/classification	Based on avail	able data, the cla	ssification c	riteria are not met.	
4	butanone		78-93-3		201-159-0	
EC50				308	mg/l	
	tion of exposure			48	h	
Spec		Daphnia magn	a			
Meth		OECD 202				
Sour		ECHA	67-63-0		200 664 7	
<b>5</b> EC50	propan-2-ol	>	07-03-0	10000	200-661-7	
	tion of exposure			24	mg/l h	
Spec		Daphnia magn	а	47	- 11	
Meth		OECD 202				
Sour		ECHA				
6	Rosin; colophony		8050-09-7		232-475-7	
EC50		>		100	mg/l	
	tion of exposure			48	h	
Spec		Daphnia magn	a			
Meth		OECD 202				
Sour	ce	ECHA				
Гохіс	city to Daphnia (chronic)					
No	Substance name		CAS no.		EC no.	
1	ethyl-acetate		141-78-6		205-500-4	
NOE				2.4	mg/l	
Spec		Daphnia magn	a			
Meth	od	OECD 211				
<u>Toxi</u> o	city to algae (acute)					
No	Substance name		CAS no.		EC no.	
1	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5	% n-hexane	64742-49-0		926-605-8	
EL50				26	mg/l	
	tion of exposure			72	h	
Snec	ies	Pseudokirchne	riella subcanitata			

Raphidocelis subcapitata

Pseudokirchneriella subcapitata

78-93-3

8050-09-7

1220

96

100

201-159-0

232-475-7

mg/l

mg/l

**OECD 201** 

OECD 201

ECHA

ECHA



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Duration of exposure	72	h	1
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Toxic	city to algae (chronic)			
No	Substance name	CAS no.		EC no.
1	ethyl-acetate	141-78-6		205-500-4
NOE	С	>	100	mg/l
Spec	ies	Desmodesmus subspicatus		<del>-</del>
Meth	od	OECD 201		
Sour	ce	ECHA		

Bact	eria toxicity			
No	Substance name	CAS no.		EC no.
1	Rosin; colophony	8050-09-7		232-475-7
IC50		>	10000	mg/l
Dura	tion of exposure		3	h
Spec	ies	activated sludge		
Meth	od	OECD 209		
Sour	ce	ECHA		

12.2 Persistence and degradability

Biodegradability				
No Substance name	CAS no.		EC no.	
1 ethyl-acetate	141-78-6		205-500-4	
Туре	COD			
Value		1.69	g O2/g	
Source	ECHA			
Evaluation	readily biodegradable			
2 Hydrocarbons, C6-C7, isoalkanes, cyclics, <		-0	926-605-8	
Туре	aerobic biodegradation			
Value	81	- 98	%	
Duration		28	day(s)	
Method	OECD 301 F			
Source	ECHA			
Evaluation	readily biodegradable			
3 acetone	67-64-1		200-662-2	
Туре	aerobic biodegradation			
Value		90.9	%	
Duration		28	day(s)	
Method	OECD 301 B			
Source	ECHA			
Evaluation	readily biodegradable			
4 butanone	78-93-3		201-159-0	
Туре	aerobic biodegradation			
Value		98	%	
Duration		28	day(s)	
Method	OECD 301 D			
Source	ECHA			
Evaluation	readily biodegradable			
5 propan-2-ol	67-63-0		200-661-7	
Туре	BOD/COD			
Value		53	%	
Duration		5	day(s)	
Source	ECHA			
Evaluation	readily biodegradable			
6 Rosin; colophony	8050-09-7		232-475-7	
Value		80	%	
Duration		28	day(s)	
Method	OECD 301 B			
Source	ECHA			
Evaluation	readily biodegradable			

12.3 Bioaccumulative potential

Parti	Partition coefficient n-octanol/water (log value)					
No	Substance name	CAS no.	EC no.			
1	ethyl-acetate	141-78-6	205-500-4			
log F	Pow	0.68				



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Refe	rence temperature			25	°C	
Sour		ECHA		-	-	
2	acetone		67-64-1		200-662-2	
log F	ow			-0.23		
Meth	od	QSAR				
Sour	ce	ECHA				
3	butanone		78-93-3		201-159-0	
log F	ow			0.3		
Refe	rence temperature			40	°C	
Meth	od	OECD 117				
Sour	ce	ECHA				
4	propan-2-ol		67-63-0		200-661-7	
log F	ow			0.05		
Refe	rence temperature			25	°C	
Sour	ce	ECHA				
5	Rosin; colophony		8050-09-7		232-475-7	
log F	ow			3.01		
Refe	rence temperature			20	°C	
Meth	od	EU Method A.8	-			
Sour	ce	ECHA				

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessme	ent
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

## 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

#### 12.8 Other information

Other	information	i

Do not discharge into drains or waters and do not dispose of in public landfills.

# **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

**Product** 

Waste code 08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

dispose of in accordance with local regulation.

**Packaging** 

Waste code 15 01 10\* packaging containing residues of or contaminated by hazardous substances Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## **SECTION 14: Transport information**

14.1 UN number or ID number

 ADR/RID/ADN
 UN1133

 IMDG
 UN1133

 ICAO-TI / IATA
 UN1133

14.2 UN proper shipping name

ADR/RID/ADN ADHESIVES

IMDG ADHESIVES

Technical name cyclohexane

ICAO-TI / IATA Adhesives

14.3 Transport hazard class(es)

ADR/RID/ADN - Class
Label 3
Classification code F1



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Tunnel restriction code	D/E
Hazard identification no.	33
Special Provision 640	640D
IMDG - Class	3
Label	3
ICAO-TI / IATA - Class	3
Label	3

#### 14.4 Packing group

ADR/RID/ADN || IMDG || ICAO-TI / IATA || ||

#### 14.5 Environmental hazards

ADR/RID/ADN Symbol "fish and tree"
IMDG Symbol "fish and tree"
EmS F-E. S-D

#### 14.6 Special precautions for user

To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

# 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

## REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES						
The	The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40					
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.						
No	Substance name	CAS no. EC no	o. No			
1	acetone	67-64-1 200-6	62-2 75			
2	butanone	78-93-3 201-1	59-0 75			
3	cyclohexane	110-82-7 203-80	06-2 57, 75			
4	ethyl-acetate	141-78-6 205-5	00-4 75			
5	propan-2-ol	67-63-0 200-6	61-7 75			
6	Rosin: colophony	8050-09-7 232-4	75-7 75			

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances				
This product is subject to Part I of Annex I, risk category:	E1, P5b			
If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest				
qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.				

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)					
VOC content	78	%			

## **National regulations**

#### Other regulations

This product is regulated by Regulation (EU) No. 2019/1148: All suspicious transactions, disappearance and theft of significant quantities must be reported to the appropriate national contact point. See https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisisand-

 $terror is m/explosives/explosives precursors \dot{/} docs/list\_of\_competent\_authorities\_and\_national\_contact\_points\_en.pdf$ 

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## **SECTION 16: Other information**



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#### **Further information**

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The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case. Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

EUH066 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

# Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

Р

The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard

class.

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