

Safety Data Sheet according to (EC) No 1907/2006 as amended

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TEROSON SB 2444 340G EGFD

SDS No.: 76601 V017.0 Revision: 03.02.2023 printing date: 09.02.2023 Replaces version from: 06.07.2022

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

- 1.1. Product identifier TEROSON SB 2444 340G EGFD
- 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use: Contact adhesive
- 1.3. Details of the supplier of the safety data sheet Henkel AG & Co. KGaA

Henkelstr. 67 Düsseldorf 40589

Germany

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For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkeladhesives.com. SDSinfo.Adhesive@henkel.com

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):	
Flammable liquids	Category 2
H225 Highly flammable liquid and vapour.	
Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye irritation	Category 2
H319 Causes serious eye irritation.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Target organ: Central nervous system	
Acute hazards to the aquatic environment	Category 1
H400 Very toxic to aquatic life.	
Chronic hazards to the aquatic environment	Category 1
H410 Very toxic to aquatic life with long lasting effects.	

2.2. Label elements	
Label elements (CLP):	
Hazard pictogram:	
Contains	cyclohexane
	Ethyl acetate
	Formaldehyde, polymer with 4-(1,1-dimethylethyl)phenol
	rosin
Signal word:	Danger
Hazard statement:	 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: Prevention	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapors. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection.
Precautionary statement: Response	P370+P378 In case of fire: Use CO2, dry chemical, or foam for extinction.
Precautionary statement: Storage	P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

The solvent vapors are heavier than air and may collect in high concentrations at floor level.

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration \geq the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
cyclohexane 110-82-7 203-806-2 01-2119463273-41	20- 40 %	Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Flam. Liq. 2, H225 Skin Irrit. 2, H315	M acute = 1 M chronic = 1	EU OEL
Ethyl acetate 141-78-6 205-500-4 01-2119475103-46	20- 40 %	Flam. Liq. 2, H225 STOT SE 3, H336 Eye Irrit. 2, H319		EU OEL
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0 927-510-4 01-2119475515-33	10- < 20 %	Aquatic Chronic 2, H411 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Flam. Liq. 2, H225 STOT SE 3, H336	inhalation:ATE = 23,31 mg/l;vapour	
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0 931-254-9 01-2119484651-34	1- < 5 %	Skin Irrit. 2, H315 Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411		
Formaldehyde, polymer with 4- (1,1-dimethylethyl)phenol 25085-50-1	1-< 5%	Skin Sens. 1, H317		
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0 926-605-8 01-2119486291-36	1- < 3 %	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411		
rosin 8050-09-7 232-475-7 01-2119480418-32	1- < 3 %	Skin Sens. 1, H317		
zinc oxide 1314-13-2 215-222-5 01-2119463881-32	0,25- < 2,5 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	
Disulfiram 97-77-8 202-607-8	0,01-< 0,1 %	Acute Tox. 4, Oral, H302 Acute Tox. 4, Inhalation, H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 STOT RE 2, H373	M acute = 10 M chronic = 10 ===== oral:ATE = 1.861 mg/kg	

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move to fresh air, consult doctor if complaint persists.

Skin contact:

IF ON SKIN: Wash with plenty of soap and water. In case of adverse health effects seek medical advice.

Eye contact:

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

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

Vapors may cause drowsiness and dizziness.

SKIN: Rash, Urticaria.

4.3. Indication of any immediate medical attention and special treatment needed See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media: Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons: Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture

In case of fire toxic gases can be released.

5.3. Advice for firefighters Wear self-contained breathing apparatus. Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Avoid contact with skin and eyes. Danger of slipping on spilled product. Keep unprotected persons away.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water. Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid open flames and sources of ignition. Ground/bond container and receiving equipment. Use explosion proof electric equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Take off contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction. Store in a cool, frost-free place. Temperatures between + 5 °C and + 25 °C

7.3. Specific end use(s) Contact adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Germany

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cyclohexane 110-82-7 ICYCLOHEXANE1	200	700	Time Weighted Average (TWA):	Indicative	ECTLV
Cyclohexane 110-82-7	200	700	Exposure limit(s):	4	TRGS 900
Cyclohexane 110-82-7			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Ethyl acetate 141-78-6 [ETHYL ACETATE]	200	734	Time Weighted Average (TWA):	Indicative	ECTLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.468	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ethyl acetate 141-78-6			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Ethyl acetate 141-78-6	200	730	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Magnesium oxide 1309-48-4			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Magnesium oxide 1309-48-4		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Magnesium oxide 1309-48-4		10	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Zinc oxide			Short Term Exposure	Category II: substances with a resorptive effect	TRGS 900
Zinc oxide 1314-13-2		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Zinc oxide 1314-13-2		10	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Disulfiram 97-77-8		2	Exposure limit(s):	8	TRGS 900
Disulfiram 97-77-8			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure	Value				Remarks
	Compartment	periou	mg/l	ppm	mg/kg	others	
cyclohexane	aqua		0,207 mg/l	11			
110-82-7	(freshwater)						
cyclohexane	aqua (marine		0,207 mg/l				
110-82-7	water)		0.207 mg/l				
110-82-7	aqua (intermittent		0,207 mg/1				
110 02 /	releases)						
cyclohexane	sediment				16,68		
110-82-7	(freshwater)				mg/kg		
cyclohexane	sediment				16,68		
110-82-7	(marine water)				mg/Kg		
110-82-7	5011				5,58 mg/kg		
cyclohexane	sewage		3,24 mg/l				
110-82-7	treatment plant						
	(STP)						
cyclohexane	Air						
110-82-7	Predator						no potential for
110-82-7	Tredator						bioaccumulation
Ethyl acetate	aqua		0,24 mg/l				
141-78-6	(freshwater)		_				
Ethyl acetate	aqua (marine		0,024 mg/l				
141-78-6	water)		1.65				
Ethyl acetate $1/1-78-6$	aqua		1,65 mg/l				
141-78-0	releases)						
Ethyl acetate	sewage		650 mg/l				
141-78-6	treatment plant		_				
	(STP)				1.1.7 7		
Ethyl acetate	(freshwater)				1,15 mg/kg		
Ethyl acetate	sediment				0.115		
141-78-6	(marine water)				mg/kg		
Ethyl acetate	Air						no hazard identified
141-78-6							
Ethyl acetate	Soil				0,148		
141-78-6 Ethyl acetata	oral				mg/Kg		
141-78-6	orai				200 mg/kg		
rosin	aqua		0,002 mg/l				
8050-09-7	(freshwater)						
rosin	aqua (marine		0,0002				
8050-09-7	water)		mg/1		0.007		
8050-09-7	(freshwater)				0,007 mg/kg		
rosin	sediment				0,001		
8050-09-7	(marine water)				mg/kg		
rosin	Soil				0 mg/kg		
8050-09-7			1000 ma/l				
8050-09-7	treatment plant		1000 mg/1				
	(STP)						
rosin	aqua		0,016 mg/l				
8050-09-7	(intermittent						
zine ovide	releases)		14.4.4.2/1				
1314-13-2	aqua (freshwater)		14,4 µg/1				
zinc oxide	aqua (marine		7,2 μg/l				
1314-13-2	water)						
zinc oxide	sewage		100 µg/l				
1314-13-2	treatment plant						
zinc oxide	(STF) sediment		-		146.9		
1314-13-2	(freshwater)				mg/kg		
zinc oxide	sediment		1		162,2		
1314-13-2	(marine water)				mg/kg		
zinc oxide	Soil				83,1 mg/kg		
1314-13-2							

Derived No-Effect Level (DNEL):

Name on list	Application	Route of	Health Effect	Exposure	Value	Remarks
avalahayana	Workow	inholotion	A outo /ab out tours	Time	700 m a/m 2	no notontial for
	workers	Innalation	Acute/short term		700 mg/m5	his assumulation
110-82-7			exposure - local			bioaccumulation
			effects	-	7 00 / 0	
cyclohexane	Workers	inhalation	Acute/short term		/00 mg/m3	no potential for
110-82-7			exposure -			bioaccumulation
			systemic effects			
cyclohexane	Workers	inhalation	Long term		700 mg/m3	no potential for
110-82-7			exposure -			bioaccumulation
			systemic effects			
cyclohexane	Workers	inhalation	Long term		700 mg/m3	no potential for
110-82-7			exposure - local			bioaccumulation
			effects			
cyclohexane	Workers	dermal	Long term		2016 mg/kg	no potential for
110-82-7			exposure -			bioaccumulation
			systemic effects			
cyclohexane	General	inhalation	Acute/short term		412 mg/m3	no potential for
110-82-7	population		exposure -			bioaccumulation
			systemic effects			
cyclohexane	General	inhalation	Acute/short term		412 mg/m3	no potential for
110-82-7	population		exposure - local			bioaccumulation
			effects			
cyclohexane	General	dermal	Long term		1186 mg/kg	no potential for
110-82-7	population		exposure -			bioaccumulation
			systemic effects			
cyclohexane	General	oral	Long term		59,4 mg/kg	no potential for
110-82-7	population		exposure -			bioaccumulation
			systemic effects			
cyclohexane	General	inhalation	Long term		206 mg/m3	no potential for
110-82-7	population		exposure -			bioaccumulation
			systemic effects			
cyclohexane	General	inhalation	Long term		206 mg/m3	no potential for
110-82-7	population		exposure - local			bioaccumulation
			effects			
Ethyl acetate	Workers	inhalation	Acute/short term		1468 mg/m3	no hazard identified
141-78-6			exposure -			
			systemic effects			
Ethyl acetate	Workers	inhalation	Acute/short term		1468 mg/m3	no hazard identified
141-78-6			exposure - local			
			effects			
Ethyl acetate	Workers	dermal	Long term		63 mg/kg	no hazard identified
141-78-6			exposure -			
			systemic effects			
Ethyl acetate	Workers	inhalation	Long term		734 mg/m3	no hazard identified
141-78-6			exposure -			
			systemic effects			
Ethyl acetate	Workers	inhalation	Long term		734 mg/m3	no hazard identified
141-78-6			exposure - local			
			effects			
Ethyl acetate	General	Inhalation	Acute/short term		734 mg/m3	no hazard identified
141-78-6	population		exposure -			
			systemic effects			
Ethyl acetate	General	inhalation	Acute/short term		734 mg/m3	no hazard identified
141-78-6	population		exposure - local			
			effects			
Ethyl acetate	General	dermal	Long term		37 mg/kg	no hazard identified
141-78-6	population		exposure -			
			systemic effects			
Ethyl acetate	General	inhalation	Long term		367 mg/m3	no hazard identified
141-78-6	population		exposure -			
			systemic effects			
Ethyl acetate	General	oral	Long term		4,5 mg/kg	no hazard identified
141-78-6	population		exposure -			
			systemic effects			
Ethyl acetate	General	inhalation	Long term		367 mg/m3	no hazard identified
141-78-6	population		exposure - local			
			effects			
Hydrocarbons, C7, n-alkanes, isoalkanes,	Workers	dermal	Long term		300 mg/kg	
cyclics			exposure -			
64742-49-0			systemic effects			
Hydrocarbons, C7, n-alkanes, isoalkanes,	Workers	inhalation	Long term		2085 mg/m3	
cyclics			exposure -			

64742-49-0			systemic effects		
Hydrocarbons, C7, n-alkanes, isoalkanes,	General	dermal	Long term	149 mg/kg	
cyclics	population		exposure -		
04742-49-0 Hydrocarbons C7 n-alkanes isoalkanes	General	inhalation	L ong term	117 mg/m3	
cyclics	population	minatation	exposure -	++7 mg/m5	
64742-49-0	r · r · · · ·		systemic effects		
Hydrocarbons, C7, n-alkanes, isoalkanes,	General	oral	Long term	149 mg/kg	
cyclics	population		exposure -		
64/42-49-0	Workers	inholation	systemic effects	5206 mg/m2	
hydrocarbons, Co, isoarkanes, < 5% li-	workers	minaration	exposure -	5500 mg/m5	
64742-49-0			systemic effects		
Hydrocarbons, C6, isoalkanes, < 5% n-	Workers	dermal	Long term	13964 mg/kg	
hexane			exposure -		
64742-49-0			systemic effects	1121 / 2	
Hydrocarbons, Co, isoaikanes, < 5% n-	General	innalation	Long term	1131 mg/m3	
64742-49-0	population		systemic effects		
Hydrocarbons, C6, isoalkanes, < 5% n-	General	dermal	Long term	1377 mg/kg	
hexane	population		exposure -		
64742-49-0	~ .		systemic effects		
Hydrocarbons, C6, isoalkanes, < 5% n-	General	oral	Long term	1301 mg/kg	
64742-49-0	population		exposure -		
Hydrocarbons, C6-C7, isoalkanes, cyclics,	Workers	dermal	Long term	13964 mg/kg	
<5% n-hexane			exposure -		
92128-66-0			systemic effects		
Hydrocarbons, C6-C7, isoalkanes, cyclics,	Workers	inhalation	Long term	5306 mg/m3	
<5% n-hexane			exposure -		
Hydrocarbons C6-C7 isoalkanes cyclics	General	dermal	L ong term	1377 mg/kg	
<5% n-hexane	population	uermai	exposure -	1377 mg/kg	
92128-66-0	F -F		systemic effects		
Hydrocarbons, C6-C7, isoalkanes, cyclics,	General	inhalation	Long term	1131 mg/m3	
<5% n-hexane	population		exposure -		
92128-66-0	Comorol	o	systemic effects	1201 ma/ka	
<5% n-hexane	population	orai	exposure -	1501 mg/kg	
92128-66-0	population		systemic effects		
rosin	Workers	inhalation	Long term	10 mg/m3	
8050-09-7			exposure - local		
	*** 1		effects	0.101 //	
rosin 8050 00 7	Workers	dermal	Long term	2,131 mg/kg	
8050-09-7			systemic effects		
rosin	General	dermal	Long term	1,065 mg/kg	
8050-09-7	population		exposure -		
			systemic effects		
rosin	General	oral	Long term	1,065 mg/kg	
8050-09-7	population		exposure -		
zinc oxide	Workers	Inhalation	Long term	5 mg/m3	
1314-13-2	() official		exposure -	e ing ine	
			systemic effects		
zinc oxide	Workers	dermal	Long term	83 mg/kg	
1314-13-2			exposure -		
zinc oxide	Workers	inhalation	L ong term	$0.5 \mathrm{mg/m3}$	
1314-13-2	WOIKEIS	minaration	exposure - local	0,5 mg/m5	
			effects		
zinc oxide	General	Inhalation	Long term	2,5 mg/m3	
1314-13-2	population		exposure -		
· · · ·		1 1	systemic effects	02 4	
2 Inc oxide 1314-13-2	General	dermal	Long term	83 mg/kg	
151-7-15-2	Population		systemic effects		
zinc oxide	General	oral	Long term	0,83 mg/kg	
1314-13-2	population		exposure -		
			systemic effects		

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Cyclohexane 110-82-7	1,2- Cyclohexane diol, with hydrolysis	Creatinine in urine	Sampling time period is for long-term exposures, at the end of the shift after several preceding ones./ Sampling time period is at end of exposure or at end of shift.	150 mg/g	DE BGW		

8.2. Exposure controls:

Engineering controls: Use only in well ventilated areas.

Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Eye protection: Goggles which can be tightly sealed. Protective eye equipment should conform to EN166.

Skin protection: Wear protective equipment. Protective clothing that covers arms and legs. Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Delivery form	liquid
Colour	beige
Odor	of solvent
Melting point	Not applicable, Product is a liquid
Solidification temperature	< 5 °C (< 41 °F)
Initial boiling point	70 °C (158 °F)
(1.013 hPa)	
Flammability	Flammable liquid
Explosive limits	
lower	0,47 %(V);
	Upper explosion limit not applicable for safe processing
	practices.
Flash point	< 0 °C (< 32 °F); DIN 51755 Closed cup flash point
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no
	organic peroxide and does not decompose under foreseen
	conditions of use
рН	Not applicable, Product is non-soluble (in water).
Viscosity (kinematic)	3.700 mm2/s ;.Dummy
(40 °C (104 °F);)	
Viscosity, dynamic	3.000 mPa.s Brookfield viscosity (LVT, RVT, HBT)

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(Brookfield; Instrument: RVT; 20,0 °C (68	
°F); Spindle No: 4)	
Flow cup viscosity	115 s DIN EN ISO 2431 Running out time with flow cups
(; Nozzle: 6 mm DIN EN ISO 2431;	
QP2017.1, QP1580.0; Running out time with	
flow cups)	
Solubility (qualitative)	Not miscible or difficult to mix
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	Not applicable
	Mixture
Vapour pressure	450 mbar
(55 °C (131 °F))	
Vapour pressure	140 hPa
(20 °C (68 °F))	
Vapour pressure	510 hPa
(50 °C (122 °F))	
Density	0,87 g/cm3 UK-NO. 4/2, density pycnometer
(20 °C (68 °F))	
Relative vapour density:	>1
(20 °C)	
Particle characteristics	Not applicable
	Product is a liquid

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity

10.1. Reactivity Oxidizers.

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions See section reactivity

10.4. Conditions to avoid Heat, flames, sparks and other sources of ignition.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

No decomposition if used according to specifications.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

Acute oral toxicity:

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Hazardous substances	Value	Value	Species	Method
cyclohexane 110-82-7LD50> 5.000 mg/kg ratratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)110-82-7LD506.100 mg/kgratnot specified141-78-6LD50> 5.840 mg/kgratnot specifiedHydrocarbons, C7, n- alkanes, isoalkanes, cyclicsLD50> 5.840 mg/kgratnot specifiedHydrocarbons, C6, isoalkanes, < 5% n- hexaneLD50> 16.750 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Formaldehyde, polymer with 4-(1,1- dimethylethyl)phenolLD50> 5.000 mg/kgratnot specifiedFormaldehyde, polymer with 4-(1,1- dimethylethyl)phenolLD50> 5.000 mg/kgratnot specifiedHydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0LD50> 16.750 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)rosin 2114-13-2LD50> 16.750 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)rosinfram 1314-13-2LD50> 16.750 mg/kgratnot specifiedrosin 1314-13-2LD50> 5.000 mg/kgratnot specifiedrosinfram 1314-13-2LD50> 1.860 mg/kgratnot specifiedroxicity 0isulfiram 97-77-8LD50> 1.861 mg/kgratnot specifiedroxicity oxicitynot specifiedStepret judgementroxicity oxicityratnot specified	CAS-No.	type			
110-82-7ToxicityEthyl acetateLD50 6.100 mg/kg ratnot specifiedHydrocarbons, C7, n- alkanes, isoalkanes, cyclicsLD50 $> 5.840 \text{ mg/kg}$ ratnot specifiedHydrocarbons, C6, isoalkanes, < 5% n- hexaneLD50 $> 16.750 \text{ mg/kg}$ ratnot specifiedHydrocarbons, C6, isoalkanes, < 5% n- hexaneLD50 $> 16.750 \text{ mg/kg}$ ratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Formaldehyde, polymer with 4-(1,1- dimethylethyl)phenol 25085-50-1LD50 $> 5.000 \text{ mg/kg}$ ratnot specifiedHydrocarbons, C6, isoalkanes, < 5% n- hexaneLD50 $> 5.000 \text{ mg/kg}$ ratnot specifiedFormaldehyde, polymer with 4-(1,1- dimethylethyl)phenol 25085-50-1LD50 $> 16.750 \text{ mg/kg}$ ratnot specifiedHydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0LD50 $> 16.750 \text{ mg/kg}$ ratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)rosin 050-09-7LD50 $> 16.750 \text{ mg/kg}$ ratnot specified1314-13-2LD50 $> 5.000 \text{ mg/kg}$ ratnot specifiedDisulfiram 97-77-8LD50 $> 1.860 \text{ mg/kg}$ ratnot specified97-77-8Covicity toxicityratnot specified97-77-8LD50 $> 1.860 \text{ mg/kg}$ ratnot specified97-77-8Covicity toxicity $> 1.860 \text{ mg/kg}$ ratnot specified97-77-8Acute toxicity	cyclohexane	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral
Ethyl acetate 141-78-6LD50 6.100 mg/kg ratnot specifiedHydrocarbons, C7, n- alkanes, isoalkanes, cyclics $64742-49-0$ LD50> 5.840 mg/kgratnot specifiedHydrocarbons, C6, isoalkanes, < 5% n- hexane $64742-49-0$ LD50> 16.750 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Formaldehyde, polymer with 4-(1,1- dimethylethyl)phenol $25085-50-1$ LD50> 5.000 mg/kgratnot specifiedHydrocarbons, C6-c7, isoalkanes, cyclics, <5% n-hexane $92128-66-0$ LD50> 16.750 mg/kgratnot specifiedZin oxide 1314-13-2LD50> 16.750 mg/kgratratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Disulfiram 97-77-8LD50> 16.750 mg/kgratnot specifiedDisulfiram 97-77-8LD50> 1.860 mg/kgratnot specifiedP7-77-8Acute toxicity1.861 mg/kgratnot specified97-77-8Acute toxicity1.861 mg/kgExpert judgement	110-82-7				Toxicity)
141-78-6	Ethyl acetate	LD50	6.100 mg/kg	rat	not specified
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cyclics 64742-49-0 Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0 Formaldehyde, polymer with 4-(1,1- dimethylethyl)phenol 25085-50-1 Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0 rosin coxide 1D50 2.800 mg/kg rat LD50 2.800 mg/kg rat rat not specified rat not specified rat not specified rat not specified rat not specified rat not specified rat not specified rat polymer soalkanes, cyclics, <5% n-hexane 92128-66-0 rosin LD50 2.800 mg/kg rat LD50 2.800 mg/kg rat not specified rat polymer rat not specified rat polymer rat not specified rat polymer rat polymer rat polymer pol	alkanes, isoalkanes,				
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dimethylethyl)phenol 25085-50-1LD50> 16.750 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% 02128-66-0LD50> 16.750 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)voisin 8050-09-7LD502.800 mg/kgratnot specifiedzinc oxide 1314-13-2LD50> 5.000 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Disulfiram 97-77-8LD50> 1.860 mg/kgratnot specifiedDisulfiram 97-77-8Acute toxicity1.861 mg/kgExpert judgement	with 4-(1,1-				
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n-hexane 92128-66-0LD502.800 mg/kgratnot specifiedrosin 8050-09-7LD502.800 mg/kgratnot specifiedzinc oxide 1314-13-2LD50> 5.000 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Disulfiram 97-77-8LD50> 1.860 mg/kgratnot specifiedDisulfiram 97-77-8Acute toxicity1.861 mg/kgExpert judgement	isoalkanes, cyclics, <5%				Toxicity)
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8050-09-7 LD50 > 5.000 mg/kg rat equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) 1314-13-2 LD50 > 1.860 mg/kg rat not specified 97-77-8 Acute toxicity 1.861 mg/kg Expert judgement	rosin	LD50	2.800 mg/kg	rat	not specified
zinc oxide 1314-13-2LD50> 5.000 mg/kgratequivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)Disulfiram 97-77-8LD50> 1.860 mg/kgratnot specifiedDisulfiram 97-77-8Acute toxicity1.861 mg/kgExpert judgement	8050-09-7				
1314-13-2 Toxicity Disulfiram LD50 > 1.860 mg/kg rat not specified 97-77-8 Acute 1.861 mg/kg Expert judgement 97-77-8 toxicity estimate Expert judgement	zinc oxide	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral
Disulfiram 97-77-8 LD50 > 1.860 mg/kg rat not specified Disulfiram 97-77-8 Acute toxicity estimate 1.861 mg/kg Expert judgement	1314-13-2				Toxicity)
97-77-8 Image: Constraint of the second se	Disulfiram	LD50	> 1.860 mg/kg	rat	not specified
Disulfiram Acute 1.861 mg/kg Expert judgement 97-77-8 toxicity estimate	97-77-8				
97-77-8 toxicity	Disulfiram	Acute	1.861 mg/kg		Expert judgement
astimate	97-77-8	toxicity			
estimate		estimate			
(ATE)		(ATE)			

Acute dermal toxicity:

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
cyclohexane	LD50	> 2.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute
110-82-7				Dermal Toxicity)
Ethyl acetate	LD50	> 20.000 mg/kg	rabbit	Draize Test
141-78-6				
Hydrocarbons, C7, n-	LD50	> 2.800 mg/kg	rat	other guideline:
alkanes, isoalkanes,				
cyclics				
64742-49-0				
Hydrocarbons, C6,	LD50	> 3.350 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute
isoalkanes, < 5% n-				Dermal Toxicity)
hexane				
64742-49-0				
Formaldehyde, polymer	LD50	> 2.000 mg/kg	rabbit	not specified
with 4-(1,1-				
dimethylethyl)phenol				
25085-50-1				
Hydrocarbons, C6-C7,	LD50	> 3.350 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute
isoalkanes, cyclics, <5%				Dermal Toxicity)
n-hexane				
92128-66-0				
rosin	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
8050-09-7				
zinc oxide	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
1314-13-2				
Disulfiram	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
97-77-8				

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
cyclohexane 110-82-7	LC50	> 32,880 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Ethyl acetate 141-78-6	LC0	> 22,5 mg/l	dust/mist	6 h	rat	other guideline:
Ethyl acetate 141-78-6	LC50	> 22,5 mg/l	dust/mist	6 h	rat	other guideline:
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	LC50	> 23,3 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics 64742-49-0	Acute toxicity estimate (ATE)	23,31 mg/l	vapour			Expert judgement
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	LC50	259,354 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane 92128-66-0	LC50	259,354 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
zinc oxide 1314-13-2	LC50	> 5,7 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
Disulfiram 97-77-8	LC50	3,464 mg/l	dust/mist	4 h	rat	EPA OPP 81-3 (Acute inhalation toxicity)

Skin corrosion/irritation:

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time	_	
Ethyl acetate	slightly	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute
141-78-6	irritating			Dermal Irritation / Corrosion)
Hydrocarbons, C7, n-	irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute
alkanes, isoalkanes,				Dermal Irritation / Corrosion)
cyclics				
64742-49-0				
Hydrocarbons, C6-C7,	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
isoalkanes, cyclics, <5%				
n-hexane				
92128-66-0				
rosin	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
8050-09-7	_			
zinc oxide	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1314-13-2	_			

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
cyclohexane	slightly		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye
110-82-7	irritating			Irritation / Corrosion)
Ethyl acetate	slightly		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
141-78-6	irritating			
Hydrocarbons, C7, n-	not irritating		rabbit	FDA Guideline
alkanes, isoalkanes,				
cyclics				
64742-49-0				
Hydrocarbons, C6,	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye
isoalkanes, < 5% n-				Irritation / Corrosion)
hexane				
64742-49-0				
Hydrocarbons, C6-C7,	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye
isoalkanes, cyclics, <5%				Irritation / Corrosion)
n-hexane				
92128-66-0				
rosin	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
8050-09-7	_			
zinc oxide	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1314-13-2	_			

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Test type	Species	Method
CAS-No.				
cyclohexane	not sensitising	Buehler test	guinea pig	equivalent or similar to OECD Guideline
110-82-7				406 (Skin Sensitisation)
Ethyl acetate	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
141-78-6		test		
Hydrocarbons, C7, n-	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
alkanes, isoalkanes,		test		
cyclics				
64742-49-0				
Hydrocarbons, C6,	not sensitising	Mouse local lymphnode	mouse	equivalent or similar to OECD Guideline
isoalkanes, < 5% n-		assay (LLNA)		429 (Skin Sensitisation: Local Lymph
hexane				Node Assay)
64742-49-0				
Hydrocarbons, C6-C7,	not sensitising	Mouse local lymphnode	mouse	equivalent or similar to OECD Guideline
isoalkanes, cyclics, <5%		assay (LLNA)		429 (Skin Sensitisation: Local Lymph
n-hexane				Node Assay)
92128-66-0				
zinc oxide	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1314-13-2		test		

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of administration	activation /		
cyclohexane 110-82-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cyclohexane 110-82-7	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Ethyl acetate 141-78-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethyl acetate 141-78-6	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
rosin 8050-09-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
zinc oxide 1314-13-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
zinc oxide 1314-13-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
zinc oxide 1314-13-2	ambiguous	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Hydrocarbons, C6, isoalkanes, < 5% n- hexane 64742-49-0	not carcinogenic	inhalation: vapour	2 years 6 h/d, 5d/week	rat	male/female	equivalent or similar OECD Guideline 451 (Carcinogenicity Studies)
zinc oxide 1314-13-2	not carcinogenic	oral: drinking water	1 y daily	mouse	male/female	not specified

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
cyclohexane	NOAEL F1 7000 ppm	two-	inhalation:	rat	equivalent or similar to
110-82-7		generation	vapour		OECD Guideline 416 (Two-
		study	-		Generation Reproduction
		-			Toxicity Study)
Ethyl acetate	NOAEL P 1500 ppm	other:	inhalation	rat	other guideline:
141-78-6					-
zinc oxide	NOAEL P 7,5 mg/kg	Two	oral: gavage	rat	equivalent or similar to
1314-13-2		generation			OECD Guideline 416 (Two-
	NOAEL F1 15 mg/kg	study			Generation Reproduction
		-			Toxicity Study)

STOT-single exposure:

No data available.

STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances	Result / Value	Route of	Exposure time /	Species	Method
CAS-No.		application	Frequency of		
			treatment		
cyclohexane		inhalation:	13-14 w	mouse	EPA OPPTS 870.3465
110-82-7		vapour	6 h/d, 5 d/w		(90-Day Inhalation
					Toxicity)
Ethyl acetate	NOAEL 900 mg/kg	oral: gavage	90 d	rat	EPA OTS 795.2600
141-78-6			daily		(Subchronic Oral Toxicity
					Test)
Hydrocarbons, C6,	NOAEL 10,504 mg/l	inhalation:	13 weeks	rat	equivalent or similar to
isoalkanes, < 5% n-		vapour	6 h/d, 5 d/week		OECD Guideline 413
hexane					(Subchronic Inhalation
64742-49-0					Toxicity: 90-Day)
zinc oxide	NOAEL 31,52 mg/kg	oral: feed	13 w	rat	OECD Guideline 408
1314-13-2			daily		(Repeated Dose 90-Day
					Oral Toxicity in Rodents)
zinc oxide	NOAEL 1.5 mg/m3	inhalation	3 m	rat	OECD Guideline 413
1314-13-2			6 h/d, 5 d/w		(Subchronic Inhalation
					Toxicity: 90-Day)
Disulfiram	NOAEL 0,84 mg/kg	oral: feed	52 weeks	dog	EPA OPP 83-1 (Chronic
97-77-8			daily		Toxicity)

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
cyclohexane 110-82-7	0,41 mm2/s	40 °C	not specified	

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
cyclohexane	LC50	4,53 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish,
110-82-7					Acute Toxicity Test)
Ethyl acetate	LC50	220 mg/l	96 h	Pimephales promelas	other guideline:
141-78-6					
Hydrocarbons, C7, n-alkanes,	LL50	8,2 mg/l	96 h	Pimephales promelas	EPA-660 (Methods for
isoalkanes, cyclics					Acute Toxicity Tests with
64742-49-0					Fish, Macroinvertebrates
					and Amphibians)
Hydrocarbons, C6, isoalkanes,	LL50	18,27 mg/l	96 h	Oncorhynchus mykiss	QSAR (Quantitative
< 5% n-hexane					Structure Activity
64742-49-0					Relationship)
Hydrocarbons, C6, isoalkanes,	NOELR	4,089 mg/l	28 d	Oncorhynchus mykiss	QSAR (Quantitative
< 5% n-hexane					Structure Activity
64742-49-0					Relationship)
Hydrocarbons, C6-C7,	LL50	12 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish,
isoalkanes, cyclics, <5% n-					Acute Toxicity Test)
hexane					
92128-66-0					
rosin	LC50	Toxicity > Water	96 h	Pimephales promelas	OECD Guideline 203 (Fish,
8050-09-7		solubility			Acute Toxicity Test)
zinc oxide	LC50	0,142 mg/l	96 h	Thymallus arcticus	OECD Guideline 203 (Fish,
1314-13-2					Acute Toxicity Test)
zinc oxide	NOEC	0,44 mg/l	72 d	Oncorhynchus mykiss	other guideline:
1314-13-2					
Disulfiram	NOEC	0,0032 mg/l	10 d	Brachydanio rerio (new name:	OECD Guideline 210 (fish
97-77-8				Danio rerio)	early lite stage toxicity test)
Disulfiram	LC50	0,067 mg/l	96 h	Lepomis macrochirus	
97-77-8					

Toxicity (Daphnia):

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
cyclohexane	EC50	0,9 mg/l	48 h	Daphnia magna	OECD Guideline 202
110-82-7					(Daphnia sp. Acute
					Immobilisation Test)
Ethyl acetate	EC50	164 mg/l	48 h	Daphnia cucullata	OECD Guideline 202
141-78-6					(Daphnia sp. Acute
					Immobilisation Test)
Hydrocarbons, C7, n-alkanes,	EL50	4,5 mg/l	48 h	Daphnia magna	OECD Guideline 202
isoalkanes, cyclics					(Daphnia sp. Acute
64742-49-0					Immobilisation Test)
Hydrocarbons, C6, isoalkanes,	EL50	31,9 mg/l	48 h	Daphnia magna	QSAR (Quantitative
< 5% n-hexane					Structure Activity
64742-49-0					Relationship)
Formaldehyde, polymer with	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202
4-(1,1-dimethylethyl)phenol					(Daphnia sp. Acute
25085-50-1					Immobilisation Test)
Hydrocarbons, C6-C7,	EL50	3 mg/l	48 h	Daphnia magna	OECD Guideline 202
isoalkanes, cyclics, <5% n-					(Daphnia sp. Acute
hexane					Immobilisation Test)
92128-66-0					
rosin	EL50	Toxicity > Water	48 h	Daphnia magna	OECD Guideline 202
8050-09-7		solubility			(Daphnia sp. Acute
					Immobilisation Test)
zinc oxide	EC50	1 mg/l	48 h	Daphnia magna	OECD Guideline 202
1314-13-2					(Daphnia sp. Acute
					Immobilisation Test)

Disulfiram	EC50	0,24 mg/l	48 h	Daphnia magna	OECD Guideline 202
97-77-8		-			(Daphnia sp. Acute
					Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Ethyl acetate	NOEC	2,4 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
141-78-6					magna, Reproduction Test)
Hydrocarbons, C7, n-alkanes,	NOELR	2,6 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
isoalkanes, cyclics					magna, Reproduction Test)
64742-49-0					
Hydrocarbons, C6, isoalkanes,	NOELR	7,138 mg/l	21 d	Daphnia magna	QSAR (Quantitative
< 5% n-hexane					Structure Activity
64742-49-0					Relationship)
zinc oxide	NOEC	0,058 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
1314-13-2					magna, Reproduction Test)

Toxicity (Algae):

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		_	_	
cyclohexane 110-82-7	EC50	9,317 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
cyclohexane 110-82-7	NOEC	0,95 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	EC50	> 2.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethyl acetate 141-78-6	NOEC	2.000 mg/l	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	EL50	3,1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 64742-49-0	NOELR	0,5 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	NOELR	3,034 mg/l	72 h	Scenedesmus capricornutum	QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C6, isoalkanes, < 5% n-hexane 64742-49-0	EL50	13,56 mg/l	72 h	Scenedesmus capricornutum	QSAR (Quantitative Structure Activity Relationship)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0	EL50	55 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n- hexane 92128-66-0	NOEL	30 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
rosin 8050-09-7	EL50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
rosin 8050-09-7	NOELR	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	NOEC	0,017 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	EC50	0,17 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Disulfiram 97-77-8	EC50	1,8 mg/l	96 h	Chlorella pyrenoidosa	OECD Guideline 201 (Alga, Growth Inhibition Test)

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
cyclohexane	IC50	29 mg/l	15 h	other:	not specified
110-82-7					
Ethyl acetate	EC10	2.900 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8
141-78-6					(Pseudomonas
					Zellvermehrungshemm-
					Test)
Hydrocarbons, C6, isoalkanes,	NOEC	15,81 mg/l	48 h	Ciliate (Tetrahymena	QSAR (Quantitative
< 5% n-hexane				pyriformis)	Structure Activity
64742-49-0					Relationship)
rosin	EC20	Toxicity > Water	3 h	activated sludge of a	OECD Guideline 209
8050-09-7		solubility		predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)
zinc oxide	IC50	5,2 mg/l	3 h	not specified	OECD Guideline 209
1314-13-2					(Activated Sludge,
					Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
cyclohexane	readily biodegradable	aerobic	77 %	28 d	OECD Guideline 301 F (Ready
110-82-7					Biodegradability: Manometric
					Respirometry Test)
Ethyl acetate	readily biodegradable	aerobic	100 %	28 d	OECD Guideline 301 D (Ready
141-78-6					Biodegradability: Closed Bottle
					Test)
Hydrocarbons, C7, n-alkanes,	readily biodegradable	aerobic	77,05 %	28 d	OECD Guideline 301 F (Ready
isoalkanes, cyclics					Biodegradability: Manometric
64742-49-0					Respirometry Test)
Hydrocarbons, C6, isoalkanes,	readily biodegradable	aerobic	98 %	28 d	OECD Guideline 301 F (Ready
< 5% n-hexane					Biodegradability: Manometric
64742-49-0					Respirometry Test)
Hydrocarbons, C6-C7,	readily biodegradable	aerobic	98 %	28 d	OECD Guideline 301 F (Ready
isoalkanes, cyclics, <5% n-					Biodegradability: Manometric
hexane					Respirometry Test)
92128-66-0					
rosin	readily biodegradable	aerobic	71 %	28 d	OECD Guideline 301 D (Ready
8050-09-7					Biodegradability: Closed Bottle
					Test)
Disulfiram		aerobic	20 - 40 %	28 d	OECD Guideline 301 D (Ready
97-77-8					Biodegradability: Closed Bottle
					Test)

12.3. Bioaccumulative potential

Hazardous substances	Bioconcentratio	Exposure time	Temperature	Species	Method
CAS-No.	n factor (BCF)				
cyclohexane	167			Pimephales	QSAR (Quantitative Structure
110-82-7				promelas	Activity Relationship)
Ethyl acetate	30	3 d	22,5 °C	Leuciscus idus	other guideline:
141-78-6				melanotus	-
Hydrocarbons, C6, isoalkanes,	501			Pimephales	QSAR (Quantitative Structure
< 5% n-hexane				promelas	Activity Relationship)
64742-49-0					

12.4. Mobility in soil

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
cyclohexane	3,44	25 °C	QSAR (Quantitative Structure Activity Relationship)
110-82-7			
Ethyl acetate	0,68	25 °C	EPA OPPTS 830.7560 (Partition Coefficient, n-octanol / H2O, Generator
141-78-6			Column Method)
Hydrocarbons, C7, n-alkanes,	4,66		EU Method A.8 (Partition Coefficient)
isoalkanes, cyclics			
64742-49-0			
Hydrocarbons, C6, isoalkanes,	3,6	20 °C	not specified
< 5% n-hexane			
64742-49-0			
Hydrocarbons, C6-C7,	3,6	20 °C	other guideline:
isoalkanes, cyclics, <5% n-			
hexane			
92128-66-0			
rosin	> 3 - 6,2		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC
8050-09-7			Method)
Disulfiram	3,88		not specified
97-77-8			

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
cyclohexane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
110-82-7	Bioaccumulative (vPvB) criteria.
Ethyl acetate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
141-78-6	Bioaccumulative (vPvB) criteria.
Hydrocarbons, C7, n-alkanes, isoalkanes,	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
cyclics	Bioaccumulative (vPvB) criteria.
64742-49-0	
Hydrocarbons, C6, isoalkanes, < 5% n-hexane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
64742-49-0	Bioaccumulative (vPvB) criteria.
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5%	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
n-hexane	Bioaccumulative (vPvB) criteria.
92128-66-0	
rosin	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
8050-09-7	Bioaccumulative (vPvB) criteria.
zinc oxide	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not
1314-13-2	be conducted for inorganic substances.

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code 080409

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number or ID number

	1122
ADK	1133
RID	1133
ADN	1133
IMDG	1133
IATA	1133

14.2. UN proper shipping name

ADR	ADHESIVES
RID	ADHESIVES
ADN	ADHESIVES
IMDG	ADHESIVES (Cyclohexane)
IATA	Adhesives

14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

14.4. Packing group

Π
II
II
II
II

14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Marine pollutant
IATA	not applicable

14.6. Special precautions for user

ADR	Special provision 640D
	Tunnelcode: (D/E)
RID	Special provision 640D
ADN	Special provision 640D
IMDG	not applicable
IATA	not applicable

Packed goods <450 L (ADR/IMDG) can be classified in packaging group III, based of the viscosity (ADR 2.2.3.1.4 und IMDG 2.3.2.2)

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environm	nental regulations/legislation specific fo	r the substance or mixture	
Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):		Not applicable	
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):		Not applicable	
Persistent organic pollutants (Regulation (EU) 2019/1021):		Not applicable	
VOC content	71,9 %		
(2010/75/EU)			
VOC Paints and Varnishes (EU)	:		
Product (sub)category:	This product is not a subject of the Directive 2004/42/EC		
15.2. Chemical safety assessment A chemical safety assessment l	nas been carried out.		
National regulations/information	(Germany):		
WGK:	WGK 2: significantly water e	endangering (Ordinance on facilities for handling	
	substances that are hazardous	s to water (AwSV))	
	Classification according to A	wSV, Annex 1 (5.2)	

BG regulations, rules, infos:

BG data sheet: BGI 621 Solvents Storage class according to TRGS 510: 3

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very
	bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

Further information:

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

Annex - Exposure Scenarios:

Exposure Scenarios for ethyl acetate can be downloaded under the following link: https://mysds.henkel.com/index.html#/appSelection