

# Safety Data Sheet according to Regulation (EC) No 1907/2006

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SDS No.: 76601 V014.1

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

#### 1.1. Product identifier

TEROSON SB 2444 340G EGFD

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 Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

## 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

## **SECTION 2: Hazards identification**

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

#### Classification (CLP):

Flammable liquids Category 2 H225 Highly flammable liquid and vapor.

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.

H317 Way cause an allergic skill reaction

Specific target organ toxicity - single exposure Category 3

H336 May cause drowsiness or dizziness. Target organ: Central Nervous System

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

Colophony

Signal word: Danger

**Hazard statement:** H225 Highly flammable liquid and vapor.

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 mist/spray. 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.

nt. P403+P235 Sto

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.

Persons suffering from allergic reactions to colophony should avoid contact with the product.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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

## 3.2. Mixtures

General chemical description:

Adhesive

Base substances of preparation:

Polychloroprene

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
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
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
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	931-254-9 01-2119484651-34	10- < 20 %	Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Flam. Liq. 2 H225 Aquatic Chronic 2 H411
Coumarone-indene resins 63393-89-5		1-< 5 %	Eye Irrit. 2 H319
Colophony 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 Chronic 1 H410 Aquatic Acute 1 H400
n-Hexane 110-54-3	203-777-6 01-2119480412-44	0,1-< 1 %	Flam. Liq. 2 H225 Repr. 2 H361f Asp. Tox. 1 H304 STOT RE 2 H373 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Chronic 2 H411
Disulfiram 97-77-8	202-607-8	0,01-< 0,025 %	Acute Tox. 4 H302 Acute Tox. 4 H332 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 STOT RE 2 H373 M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10

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:

All common extinguishing agents are suitable.

### 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 protective equipment.

Wear self-contained breathing apparatus.

## **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. Storage at 10 to 20°C is recommended.

#### 7.3. Specific end use(s)

Contact adhesive

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

## 8.1. Control parameters

## **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Cyclohexane 110-82-7 [CYCLOHEXANE]	300	1.050	Short Term Exposure Limit (STEL):		EH40 WEL
Cyclohexane 110-82-7 [CYCLOHEXANE]	100	350	Time Weighted Average (TWA):		EH40 WEL
Cyclohexane 110-82-7 [CYCLOHEXANE]	200	700	Time Weighted Average (TWA):	Indicative	ECTLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400		Short Term Exposure Limit (STEL):		EH40 WEL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	200		Time Weighted Average (TWA):		EH40 WEL
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
Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME]		0,05	Time Weighted Average (TWA):		EH40 WEL
Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME]		0,15	Short Term Exposure Limit (STEL):		EH40 WEL
Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE (AS MG), FUME AND RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL
Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE (AS MG), INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):		EH40 WEL
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):	Indicative	ECTLV

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Cyclohexane 110-82-7 [CYCLOHEXANE]	200	700	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Cyclohexane 110-82-7 [CYCLOHEXANE]	200	700	Time Weighted Average (TWA):	Indicative	ECTLV
Ethyl acetate 141-78-6 [ETHYL ACETATE]	200		Time Weighted Average (TWA):		IR_OEL
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400		Short Term Exposure Limit (STEL):		IR_OEL

Ethyl acetate 141-78-6	200	734	Time Weighted Average (TWA):	Indicative	ECTLV
[ETHYL ACETATE]			(1 WA).		
Ethyl acetate 141-78-6 [ETHYL ACETATE]	400	1.468	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)]		0,05	Time Weighted Average (TWA):		IR_OEL
Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)]		0,15	Short Term Exposure Limit (STEL):		IR_OEL
Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE, TOTAL INHALABLE DUST]		10	Time Weighted Average (TWA):		IR_OEL
Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE, FUME]		10	Short Term Exposure Limit (STEL):		IR_OEL
Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		IR_OEL
Magnesium oxide 1309-48-4 [MAGNESIUM OXIDE, FUME]		5	Time Weighted Average (TWA):		IR_OEL
Zinc oxide 1314-13-2 [ZINC OXIDE, FUME (RESPIRABLE FRACTION)]		2	Time Weighted Average (TWA):		IR_OEL
Zinc oxide 1314-13-2 [ZINC OXIDE, FUME (RESPIRABLE FRACTION)]		10	Short Term Exposure Limit (STEL):		IR_OEL
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
n-Hexane 110-54-3 [N-HEXANE]			Skin designation:	Can be absorbed through the skin.	IR_OEL
n-Hexane 110-54-3 [N-HEXANE]	20	72	Time Weighted Average (TWA):	Indicative	ECTLV

## $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Exposure Compartment period Value				Remarks		
			mg/l	ppm	mg/kg	others	
Cyclohexane	aqua		0,207 mg/l				
110-82-7	(freshwater)						
Cyclohexane	aqua (marine		0,207 mg/l				
110-82-7	water)		0.207 7				
Cyclohexane	aqua		0,207 mg/l				
110-82-7	(intermittent releases)						
Cyclohexane	sediment		+		3,627		
110-82-7	(freshwater)				mg/kg		
Cyclohexane	sediment				3,627		
110-82-7	(marine water)				mg/kg		
Cyclohexane	Soil				2,99 mg/kg		
110-82-7					, , ,		
Cyclohexane	sewage		3,24 mg/l				
110-82-7	treatment plant						
	(STP)						
Ethyl acetate	aqua		0,24 mg/l				
141-78-6	(freshwater)		0.007	1			
Ethyl acetate	aqua (marine		0,024 mg/l				
141-78-6	water)		1.65 /1	ļ			
Ethyl acetate 141-78-6	aqua (intermittent		1,65 mg/l				
171-70-0	releases)						
Ethyl acetate	sewage		650 mg/l				
141-78-6	treatment plant		050 Hig/1				
111 70 0	(STP)						
Ethyl acetate	sediment				1,15 mg/kg		
141-78-6	(freshwater)				, , ,		
Ethyl acetate	sediment				0,115		
141-78-6	(marine water)				mg/kg		
Ethyl acetate	Air						
141-78-6							
Ethyl acetate	Soil				0,148		
141-78-6					mg/kg		
Ethyl acetate	oral				200 mg/kg		
141-78-6 Colophony	0.000		0,002 mg/l				
8050-09-7	aqua (freshwater)		0,002 111g/1				
Colophony	aqua (marine		0,0002				
8050-09-7	water)		mg/l				
Colophony	sediment		18		0,007		
8050-09-7	(freshwater)				mg/kg		
Colophony	sediment				0,001		
8050-09-7	(marine water)				mg/kg		
Colophony	Soil				0 mg/kg		
8050-09-7							
Colophony	sewage		1000 mg/l				
8050-09-7	treatment plant (STP)						
Colophony			0,016 mg/l				
8050-09-7	aqua (intermittent		0,016 111g/1				
0030-07-1	releases)						
zinc oxide	aqua		0,0206				<del></del>
1314-13-2	(freshwater)		mg/l				
zinc oxide	aqua (marine		0,0061			İ	
1314-13-2	water)		mg/l	<u>L</u>			
zinc oxide	sewage		0,1 mg/l				
1314-13-2	treatment plant						
	(STP)						
zinc oxide	sediment				117,8		
1314-13-2	(freshwater)				mg/kg		
zinc oxide	sediment				56,5 mg/kg		
1314-13-2 zinc oxide	(marine water) Soil		+	-	35,6 mg/kg		
1314-13-2	3011				55,0 mg/kg		
zinc oxide	Air		+				
1314-13-2	2 111						
101.10 =			1	1		1	1

## **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Cyclohexane 110-82-7	Workers	Inhalation	Acute/short term exposure - local effects		700 mg/m3	
Cyclohexane 110-82-7	Workers	Inhalation	Acute/short term exposure - systemic effects		700 mg/m3	
Cyclohexane 110-82-7	Workers	Inhalation	Long term exposure - systemic effects		700 mg/m3	
Cyclohexane 110-82-7	Workers	Inhalation	Long term exposure - local effects		700 mg/m3	
Cyclohexane 110-82-7	Workers	dermal	Long term exposure - systemic effects		2016 mg/kg	
Cyclohexane 110-82-7	General population	Inhalation	Acute/short term exposure - systemic effects		412 mg/m3	
Cyclohexane 110-82-7	General population	Inhalation	Acute/short term exposure - local effects		412 mg/m3	
Cyclohexane 110-82-7	General population	dermal	Long term exposure - systemic effects		1186 mg/kg	
Cyclohexane 110-82-7	General population	oral	Long term exposure - systemic effects		59,4 mg/kg	
Cyclohexane 110-82-7	General population	Inhalation	Long term exposure - systemic effects		206 mg/m3	
Cyclohexane 110-82-7	General population	Inhalation	Long term exposure - local effects		206 mg/m3	
Cyclohexane 110-82-7	Workers	dermal	Long term exposure - systemic effects		2016 mg/kg	
Ethyl acetate 141-78-6	Workers	inhalation	Acute/short term exposure - systemic effects		1468 mg/m3	
Ethyl acetate 141-78-6	Workers	inhalation	Acute/short term exposure - local effects		1468 mg/m3	
Ethyl acetate 141-78-6	Workers	dermal	Long term exposure - systemic effects		63 mg/kg	
Ethyl acetate 141-78-6	Workers	inhalation	Long term exposure - systemic effects		734 mg/m3	
Ethyl acetate 141-78-6	Workers	inhalation	Long term exposure - local effects		734 mg/m3	
Ethyl acetate 141-78-6	General population	Inhalation	Acute/short term exposure - systemic effects		734 mg/m3	
Ethyl acetate 141-78-6	General population	inhalation	Acute/short term exposure - local effects		734 mg/m3	
Ethyl acetate 141-78-6	General population	dermal	Long term exposure - systemic effects		37 mg/kg	
Ethyl acetate 141-78-6	General population	inhalation	Long term exposure - systemic effects		367 mg/m3	
Ethyl acetate 141-78-6	General population	oral	Long term exposure - systemic effects		4,5 mg/kg	
Ethyl acetate 141-78-6	General population	inhalation	Long term exposure - local effects		367 mg/m3	
Naphtha (petroleum), hydrotreated light, < 0,1% benzene	General population	dermal	Long term exposure -		1377 mg/kg	

64742-49-0	I	1	systemic effects	I I	
Naphtha (petroleum), hydrotreated light, <	Workers	Inhalation	Long term	5306 mg/m3	
0.1% benzene	Workers	imuution	exposure -	3300 mg/m3	
64742-49-0			systemic effects		
Naphtha (petroleum), hydrotreated light, <	General	Inhalation	Long term	1137 mg/m3	
0,1% benzene	population		exposure -		
64742-49-0			systemic effects		
Naphtha (petroleum), hydrotreated light, <	General	oral	Long term	1301 mg/kg	
0,1% benzene	population		exposure -		
64742-49-0			systemic effects		
Naphtha (petroleum), hydrotreated light, <	Workers	dermal	Long term	13964 mg/kg	
0,1% benzene			exposure -		
64742-49-0			systemic effects		
Colophony	Workers	inhalation	Long term	117 mg/m3	
8050-09-7			exposure -		
			systemic effects		
Colophony	Workers	dermal	Long term	17 mg/kg	
8050-09-7			exposure -		
			systemic effects	0.5 / 5	
Colophony	General	inhalation	Long term	35 mg/m3	
8050-09-7	population		exposure -		
	G 1		systemic effects	10 7	
Colophony	General	dermal	Long term	10 mg/kg	
8050-09-7	population		exposure -		
	G 1		systemic effects	10 7	
Colophony	General	oral	Long term	10 mg/kg	
8050-09-7	population		exposure -		
	*** 1	T 1 1	systemic effects	5 / 2	
zinc oxide 1314-13-2	Workers	Inhalation	Long term exposure -	5 mg/m3	
1314-13-2			systemic effects		
zinc oxide	Workers	dermal	Long term	83 mg/kg	
1314-13-2	WOIKEIS	dermai	exposure -	os nig/kg	
1314-13-2			systemic effects		
zinc oxide	Workers	inhalation	Long term	0,5 mg/m3	
1314-13-2	WOIKCIS	iiiiaiatioii	exposure - local	0,5 mg/m3	
1314 13 2			effects		
zinc oxide	General	Inhalation	Long term	2,5 mg/m3	
1314-13-2	population	11111111111111111	exposure -	z,c mg/mc	
	F -F		systemic effects		
zinc oxide	General	dermal	Long term	83 mg/kg	
1314-13-2	population		exposure -	100 1109 110	
	1 1 1 1 1 1		systemic effects		
zinc oxide	General	oral	Long term	0,83 mg/kg	
1314-13-2	population		exposure -		
			systemic effects		
n-Hexane	General	inhalation	Long term	16 mg/m3	
110-54-3	population		exposure -	_	
			systemic effects		
n-Hexane	Workers	dermal	Long term	11 mg/kg	
110-54-3			exposure -	_	
			systemic effects		
n-Hexane	General	dermal	Long term	5,3 mg/kg	
110-54-3	population		exposure -		
			systemic effects		
n-Hexane	Workers	inhalation	Long term	75 mg/m3	
110-54-3			exposure -		
			systemic effects		
n-Hexane	General	oral	Long term	4 mg/kg	
110-54-3	population		exposure -		
			systemic effects		

# **Biological Exposure Indices:** None

# 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.

#### Hand protection:

Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

#### Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

#### Skin protection:

Protective clothing that covers arms and legs.

Wear protective equipment.

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).

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

Appearance liquid liquid

beige

Odor of solvent

Odour threshold No data available / Not applicable

pH No data available / Not applicable
Melting point No data available / Not applicable
Solidification temperature No data available / Not applicable

Initial boiling point 63,0 °C (145.4 °F)

(1.013 hPa)

Flash point -24 °C (-11.2 °F); DIN 51755 Closed cup flash point

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable

Explosive limits

 $\begin{array}{ccc} lower & 1,10 \ \%(V) \\ upper & 11,5 \ \%(V) \\ Vapour pressure & < 250 \ hPa \end{array}$ 

(20,0 °C (68 °F))

Vapour pressure 450 mbar

(55 °C (131 °F))

Relative vapour density: No data available / Not applicable

Density 0,87 g/cm3

(20 °C (68 °F))

Bulk density No data available / Not applicable Solubility No data available / Not applicable

Solubility (qualitative) Partially soluble

(Solvent: Water)

Partition coefficient: n-octanol/water No data available / Not applicable Auto-ignition temperature No data available / Not applicable

Decomposition temperature > 120,0 °C (> 248 °F)

Viscosity 3.000 mPa.s

(Brookfield; Instrument: RVT; 20,0 °C (68 °F);

Spindle No: 4)

Viscosity (kinematic)

Explosive properties

No data available / Not applicable

No data available / Not applicable

No data available / Not applicable

Solid content 29,5 %

#### 9.2. Other information

Flow cup viscosity 115 s

(; Nozzle: 6 mm DIN EN ISO 2431; QP2017.1, QP1580.0; Running out time with flow cups)

Ignition temperature > 200,0 °C (> 392 °F)

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with strong oxidants.

#### 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:

Persons suffering from allergic reactions to colophony should avoid contact with the product.

#### 11.1. Information on toxicological effects

#### Acute oral toxicity:

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

Hazardous substances CAS-No.	Value type	Value	Species	Method
Cyclohexane 110-82-7	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Ethyl acetate 141-78-6	LD50	6.100 mg/kg	rat	not specified
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Coumarone-indene resins 63393-89-5	LD50	> 16.000 mg/kg	rat	not specified
Colophony 8050-09-7	LD50	2.800 mg/kg	rat	not specified
zinc oxide 1314-13-2	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
n-Hexane 110-54-3	LD50	16.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Disulfiram 97-77-8	LD50	> 1.860 mg/kg	rat	not specified

## Acute dermal toxicity:

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

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Cyclohexane 110-82-7	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
Ethyl acetate 141-78-6	LD50	> 20.000 mg/kg	rabbit	Draize Test
Colophony 8050-09-7	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
zinc oxide 1314-13-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
n-Hexane 110-54-3	LD50	> 2.000 mg/kg	rabbit	not specified
Disulfiram 97-77-8	LD50	> 2.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

## Acute inhalative toxicity:

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

Hazardous substances CAS-No.	Value	Value	Test atmosphere	Exposure time	Species	Method
	type					
Cyclohexane	LC50	> 32,880  mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute
110-82-7						Inhalation Toxicity)
Ethyl acetate	LC50	200 mg/l		1 h	rat	not specified
141-78-6						
Hydrocarbon aliphatic	LC50	> 20 mg/l	vapour	4 h	rat	OECD Guideline 403 (Acute
C4-11 < 0.1% benzene			•			Inhalation Toxicity)
64742-49-0						
zinc oxide	LC50	> 5,7 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute
1314-13-2						Inhalation Toxicity)
n-Hexane	LC50		vapour	24 h	rat	OECD Guideline 403 (Acute
110-54-3			1			Inhalation Toxicity)
Disulfiram	LC50	3.464 mg/l	dust/mist	4 h	rat	EPA OPP 81-3 (Acute
97-77-8						inhalation toxicity)

#### Skin corrosion/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	not irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation /
110-82-7				Corrosion)
Ethyl acetate	slightly	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
141-78-6	irritating			
Colophony	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
8050-09-7				
zinc oxide	not irritating		rabbit	not specified
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	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
110-82-7	irritating			
Ethyl acetate	slightly		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
141-78-6	irritating			
Colophony	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				
n-Hexane	not irritating		rabbit	not specified
110-54-3				_

## 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	EU Method B.6 (Skin Sensitisation)
110-82-7				
Ethyl acetate	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
141-78-6		test		
zinc oxide	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
1314-13-2		test		
n-Hexane	not sensitising	Mouse local lymphnode	mouse	OECD Guideline 429 (Skin Sensitisation:
110-54-3		assay (LLNA)		Local Lymph Node Assay)

## Germ cell mutagenicity:

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

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Cyclohexane 110-82-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cyclohexane 110-82-7	negative	mammalian cell gene mutation assay	with and without		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		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethyl acetate 141-78-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Colophony 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)
n-Hexane 110-54-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
n-Hexane 110-54-3	negative	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
n-Hexane 110-54-3		inhalation: vapour	2 y 6 h/d; 5 d/w	mouse	female	OECD Guideline 451 (Carcinogenicity Studies)

## 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		
Ethyl acetate	NOAEL P 1.500 mg/kg	other	inhalation:	rat	other guideline:
141-78-6			vapour		
n-Hexane	NOAEL P 9000 ppm	Two	inhalation:	rat	OECD Guideline 416 (Two-
110-54-3		generation	vapour		Generation Reproduction
	NOAEL F1 3000 ppm	study			Toxicity Study)
	NOAEL F2 3000 ppm				

## 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 CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Cyclohexane 110-82-7	NOAEL 500 ppm	inhalation: vapour	13-14 w 6 h/d, 5 d/w	mouse	EPA OPPTS 870.3465 (90-Day Inhalation Toxicity)
Ethyl acetate 141-78-6	NOAEL 900 mg/kg	oral: gavage	90 d daily	rat	EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
Ethyl acetate 141-78-6	NOAEL 1,28 mg/l	inhalation	94 d continuous	rat	EPA OTS 798.2450 (90- Day Inhalation Toxicity)
zinc oxide 1314-13-2	NOAEL 31,52 mg/kg	oral: feed	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
n-Hexane 110-54-3	NOAEL 568 mg/kg	oral: gavage	90 d 5 d/w	rat	not specified
n-Hexane 110-54-3	NOAEL 500 ppm	inhalation: vapour	90 d 6 h/d; 5 d/w	mouse	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Disulfiram 97-77-8	NOAEL 0,84 mg/kg	oral: feed	52 weeks daily	dog	EPA OPP 83-1 (Chronic Toxicity)

## Aspiration hazard:

No data available.

## **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					
Hydrocarbon aliphatic C4-11	LC50	> 1 - 10 mg/l			OECD Guideline 203 (Fish,
< 0,1% benzene					Acute Toxicity Test)
64742-49-0					
Coumarone-indene resins	LC50	10.000 mg/l	96 h	not specified	OECD Guideline 203 (Fish,
63393-89-5					Acute Toxicity Test)
Colophony	LC50		96 h	Pimephales promelas	OECD Guideline 203 (Fish,
8050-09-7					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					
n-Hexane	LC50	> 1 - 10 mg/l			OECD Guideline 203 (Fish,
110-54-3					Acute Toxicity Test)
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):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Cyclohexane 110-82-7	EC50	0,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethyl acetate 141-78-6	EC50	164 mg/l	48 h	Daphnia cucullata	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	EC50	3 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Colophony 8050-09-7	EL50		48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
zinc oxide 1314-13-2	EC50	1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
n-Hexane 110-54-3	EC50	2,1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Disulfiram 97-77-8	EC50	0,24 mg/l	48 h	Daphnia magna	OECD Guideline 202 (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)
zinc oxide	NOEC	0,058 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia
1314-13-2					magna, Reproduction Test)

## **Toxicity (Algae):**

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 110-82-7	EC50	9,317 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	,
Cyclohexane 110-82-7	NOEC	0,94 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)	,
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	EC50	> 1 - 10 mg/l			OECD Guideline 201 (Alga, Growth Inhibition Test)
Colophony 8050-09-7	EL50		72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Colophony 8050-09-7	NOELR		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)
n-Hexane 110-54-3	EC50	> 1 - 10 mg/l			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)

## 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 110-82-7	IC50	29 mg/l	15 h	other:	not specified
Ethyl acetate 141-78-6	EC10	2.900 mg/l	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test)
Colophony 8050-09-7	EC20		3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
zinc oxide 1314-13-2	IC50	5,2 mg/l	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
n-Hexane 110-54-3	EC 50	> 1 - 10 mg/l			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

## 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Cyclohexane 110-82-7	readily biodegradable	aerobic	77 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Ethyl acetate 141-78-6	readily biodegradable	aerobic	100 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	readily biodegradable	aerobic	89 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Colophony 8050-09-7	readily biodegradable	aerobic	71 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
n-Hexane 110-54-3	readily biodegradable, but failing 10-day window	aerobic	> 60 %	28 d	not specified
Disulfiram 97-77-8		aerobic	20 - 40 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

## 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
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	_

## 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Cyclohexane 110-82-7	3,44	25 °C	QSAR (Quantitative Structure Activity Relationship)
Ethyl acetate 141-78-6	0,68	25 °C	EPA OPPTS 830.7560 (Partition Coefficient, n-octanol / H2O, Generator Column Method)
Hydrocarbon aliphatic C4-11 < 0,1% benzene 64742-49-0	4 - 5,7		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Colophony 8050-09-7	> 3 - 6,2		OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
n-Hexane 110-54-3	4		not specified
Disulfiram 97-77-8	3,88		not specified

## 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.
Hydrocarbon aliphatic C4-11 < 0,1% benzene	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
64742-49-0	Bioaccumulative (vPvB) criteria.
Colophony	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.
n-Hexane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
110-54-3	Bioaccumulative (vPvB) criteria.

## 12.6. 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

ADR	1133
RID	1133
ADN	1133
IMDG	1133
IATA	1133

#### 14.2. UN proper shipping name

ADR	ADHESIVES	
RID	ADHESIVES	
ADN	ADHESIVES	
TI CD C	A DITECTIVES (C	1

IMDG ADHESIVES (Cyclohexane)

IATA Adhesives

#### 14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
ΙΔΤΔ	3

## 14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

#### 14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Marina pollutant

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)and < 30 L (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. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

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

VOC content 70,3 %

(VOCV 814.018 VOC regulation

CH)

VOC content 70,3 %

(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 has been carried out.

## **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 vapor.

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.

H361f Suspected of damaging fertility.

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.

#### **Further information:**

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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:

http://mymsds.henkel.com/mymsds/.490394..en.ANNEX\_DE.19414935.0.DE.pdf

Alternatively they can be accessed on the internet site www.mymsds.henkel.com by entering number 490394.