

Material Safety Data Sheet (91/155/EEG) TRELLEBORG BLACK SEALANT 5590	Model: */4	Date: 5 August 1997
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:
Trelleborg Contact Adhesive 5590

Supplier: Trelleborg Building Systems AB Sweden	Address: Trelleborg Building Systems AB Rubber Membranes Division Post Office Box 1010 SE – 33129 Värnamo, Sweden Telephone: + 46 370 48100 Fax: + 46 370 48500
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Emergency Telephone Number: + 46 370 48100

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature:
Preparation of silicon polymer, fillers and additives

Hazardous components:

CAS-nr	Component	Concentration Range	Hazardous Class	Hazard Labelling (Risk)
22984-54-9	Oximsilan	1-5%	Xi	43-36/36

3. HAZARDS IDENTIFICATION

None

4. FIRST AID MEASURES

General:
In case of doubt or with persisting symptoms, obtain medical attention. Never pass anything through the mouth of an unconscious person.

Inhalation
Remove patient from exposure, keep warm and rest.

Skin Contact:
Remove contaminated clothing. Wash skin with soap and water. Do NOT use solvents or thinners.

Eye Contact:
Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes. Obtain medical attention.

Remarks:
None

5. FIRE-FIGHTING MEASURES

Extinguishing agents:
Recommended: Waterjet, foam, powder, carbon dioxide

Material Safety Data Sheet (91/155/EEG) TRELLEBORG BLACK SEALANT 5590	Model: */4	Date: 5 August 1997																						
6. ACCIDENTAL RELEASE MEASURES																								
<p>Personal Precautions: Provide proper ventilation Spillages may be slippery Follow protective measures, as described under chapter 7 & 8</p> <p>Environmental Precautions: Prevent the product from draining away into the discharge channels, surface water, ground water or soil. Collect leakages in sealed drums; use sand; sawdust or any other inert absorbent to absorb spillages and transfer to a safe place. Spilled material will polymerise under atmospheric moisture.</p>																								
7. HANDLING AND STORAGE																								
<p>Handling: Keep containers dry and closed. Keep away from foodstuffs. Wash hands thoroughly before breaks and at the end of the working day. See chapter 8 for personal protection.</p> <p>Storage: Store in a cool and well ventilated place in the original containers. Storage temperature between +5°C and +25°C</p>																								
8. EXPOSURE CONTROLS/PERSONAL PROTECTION																								
<p>Personal Protective Equipment:</p> <table border="0"> <tr> <td>- general protection & hygiene</td> <td>Wash hands before breaks and at the end of the working day. Observe the usual protective measures for manipulation of chemical substances.</td> </tr> <tr> <td>- respiratory protection:</td> <td>Not required</td> </tr> <tr> <td>- eye protection:</td> <td>Not required</td> </tr> <tr> <td>- skin and body protection:</td> <td>Not required</td> </tr> </table>			- general protection & hygiene	Wash hands before breaks and at the end of the working day. Observe the usual protective measures for manipulation of chemical substances.	- respiratory protection:	Not required	- eye protection:	Not required	- skin and body protection:	Not required														
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9. PHYSICAL AND CHEMICAL PROPERTIES																								
<table border="0"> <tr> <td>Physical State:</td> <td>paste</td> </tr> <tr> <td>Colour:</td> <td>black</td> </tr> <tr> <td>Odour:</td> <td>sweet mild odour</td> </tr> <tr> <td>Flash point:</td> <td>not applicable</td> </tr> <tr> <td>Vapour density:</td> <td>not applicable</td> </tr> <tr> <td>Explosion limits:</td> <td>not applicable</td> </tr> <tr> <td>Solubility in water:</td> <td>not soluble</td> </tr> <tr> <td>Solubility in other:</td> <td>organic solvents</td> </tr> <tr> <td>pH:</td> <td>neutral</td> </tr> <tr> <td>Viscosity:</td> <td>tixotropic paste</td> </tr> <tr> <td>Density:</td> <td>ca. 1.03 – 1.25 g/m³</td> </tr> </table>			Physical State:	paste	Colour:	black	Odour:	sweet mild odour	Flash point:	not applicable	Vapour density:	not applicable	Explosion limits:	not applicable	Solubility in water:	not soluble	Solubility in other:	organic solvents	pH:	neutral	Viscosity:	tixotropic paste	Density:	ca. 1.03 – 1.25 g/m ³
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10. STABILITY AND REACTIVITY																								
<p>Circumstances to avoid: When stored and handled in accordance with chapter 7, the product is stable.</p> <p>Hazardous reactions: Unknown</p> <p>Hazardous decomposition products: No hazardous reactions in normal circumstances</p>																								

Material Safety Data Sheet (91/155/EEG) TRELLEBORG BLACK SEALANT 5590	Model: */4	Date: 5 August 1997						
11. TOXICOLOGICAL INFORMATION								
<p>No information in the product itself is available.</p> <p>Many years of experience have not shown any dangers for health, if properly used under the usual industrial hygiene, nor have any indications of damages for health been presented to us.</p>								
12. ECOTOXICOLOGICAL INFORMATION								
<p>Ecotoxicity: No information in the product itself is available.</p> <p>Do not allow to enter drains, sewers or watercourses.</p>								
13. DISPOSAL CONSIDERATIONS								
<p>Do not discharge into drains or the environment. Dispose to an authorised waste collection point. Disposal should be in accordance with local state or national legislation.</p>								
14. TRANSPORT INFORMATION								
<p>Proper shipping name: sealant</p> <table border="0" data-bbox="280 1024 1130 1100"> <tr> <td>VIG/ADR (road transport):</td> <td>IMDG (sea transport)</td> <td>ICAO</td> </tr> <tr> <td>No labels required</td> <td>Label: None</td> <td>Label: None</td> </tr> </table>			VIG/ADR (road transport):	IMDG (sea transport)	ICAO	No labels required	Label: None	Label: None
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15. REGULATORY INFORMATION								
<p>Keep away from children. Avoid contact with skin and eyes. After contact rinse thoroughly with water. If necessary, seek medical advice. Use only in well ventilated areas, or under local exhaust. During use and hardening, an irritating substance evaporates. If this substance is inhaled permanently at high concentrations health effects cannot be excluded.</p>								
16. OTHER INFORMATION								
<p>The information in this Material Safety Data Sheet is based on the knowledge at the issue date and in accordance with national law and EC-regulations.</p> <p>Without written instructions for use, the product may not be used for purposes other than those specified under Chapter 1.</p> <p>The information in this sheet is meant as a description of safety measured for this product, is not meant as a warranty for quality regarding the technical specifications.</p> <p>The information in this MSDS is prepared in accordance with Directives 91/155/EC and 98/379/EC.</p>								

Specification Cladseal Butyl

2004/06/15

English

<u>Physical properties)</u>	<u>Unit</u>	<u>Requirements/typical value</u>		<u>Test methods</u>
Hardness	°IRH	65 ± 5	69	ISO 48
Modulus at 300% elongation	Mpa	4,5	6,8	ISO 37
Tensile Strength	Mpa	min 8,5	8,7	ISO 37
Elongation at break	%	min 350	420	ISO 37
Tear Strength	kN/m	min 20	26	ISO 43, B
Properties after ageing 168h/121°C				ISO 188
Tensile Strength	Mpa	min 6,5	8	ISO 37
Elongation at break	%	min 250	350	ISO 37
Ozone Resistance 96 h/50pphm 80% elongation at 30°C		No cracks		ISO 1430
Brittle point	C°	max. -30	-39	ISO 812
<u>Additional requirements</u>				
U.K. Approvals		BBA Certificate No 86/1693		
Thickness		Nominal ±10%		
Identification		Each roll marked with product name, article- and roll number, dimensions, date of manufacture and signature.		
Packing		Polyethylene-film wrapping		

Specification

Cladseal EPDM

2004/06/15

English

<u>Physical properties</u>	<u>Unit</u>	<u>Requirements</u>	<u>Test methods</u>
Density	g/cm ³	1,30 nominal	
Hardness	°IRH	65 ± 5	ISO 48
Modulus at 300% elongation	Mpa	min 5,0	ISO 37
Tensile Strength	Mpa	min 6,5	ISO 37
Elongation at break	%	min 300	ISO 37
Tear Strength	kN/m	min 25	ISO 43, B
Properties after ageing 168h/121°C			ISO 188
Tensile Strength	Mpa	min 5,0	ISO 37
Elongation at break	%	min 150	ISO 37
Brittle point	C°	max.-30	ISO 812
<u>Additional requirements</u>			
Thickness		Nominal±10% .	
Identification		Each roll marked with product name and roll number, dimensions, date of manufacture.	
Packing		Rolls wrapped in polyethylene- film.	

Specification

Cladseal SA

2004/06/15

English

<u>Physical properties(rubber)</u>	<u>Unit</u>	<u>Requirements</u>	<u>Test methods</u>
Hardness	°IRH	65 ± 5	ISO 48
Tensile Strength	Mpa	min 8,0	ISO 37
Elongation at break	%	min 300	ISO 37
Tear Strength	kN/m	min 30	ISO 34
Properties after ageing 168h/121°C			ISO 188
Tensile Strength	Mpa	min 6,5	ISO 37
Elongation at break	%	min 200	ISO 37
Brittle point	C°	max.-30	ISO 812
<u>Properties (scrim reinforcement)</u>			
Weight	g/m ²	47	
Max Tensile Strength LD/TD	N/50mm	500	
Elongation at max T.S	%	min 20	
<u>Properties (tacky butyl coating)</u>			
Thickness	mm	Nominal 0.6 ±0,1	
Peeling test on steel	N/cm	> 4	
Thermal Stability 80°C	mm	0	
Total thickness	mm	1,60 ± 10 %	
Identification		Each roll marked with product name, width, length.	
Package		Rolls wrapped in polyethylene- film. Siliconized release film on sticky side.	
Standards		EPDM rubber fulfils the requirements of DIN 7864, Elastomerbahnen für Abdichtungen and ASTM 4637-67, vulcanised rubber sheets and UNE 53,586-86, Elastomeros.	

Material Safety Data Sheet	Date: 27 July 2000
TRELLEBORG CLEANING WASH 9700	Revised: 19 May 2004

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:
Trelleborg Cleaning Wash 9700

Supplier: Trelleborg Building Systems AB Sweden	Address: Trelleborg Building Systems Rubber Membranes Division Post Office Box 1004 SE – 33129 Värnamo, Sweden Telephone: + 46 370 48100 Fax:: + 46 370 48500
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Emergency Telephone Number: + 46 370 48100

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Chemical name	Cont. %	Hazardous Class	Hazard Labelling (Risk)
64742-49-0	Naphtha (Petroleum), hydrogen processed light of which n-hexane max 1% Bensene contain max 10ppm	100%	F, Xn, N;	R11-65-67-38-51/53

3. HAZARDS IDENTIFICATION

R11	Highly Flammable
R65	Hazardous: Can cause lung damage if swallowed.
R67	Fumes can cause drowsiness.
R38	Skin irritant
R51/53	Toxic to aquatic organisms. Can cause harmful long-term effects in the aquatic environment.

4. FIRST AID MEASURES

Inhalation:
Fresh air and rest. If necessary, give breathing assistance.

Ingestion:
If possible, give the injured person a couple of tablespoons of cream if he or she is fully conscious. Do NOT encourage vomiting. Take to hospital.

Skin Contact:
Take off contaminated clothes. Wash skin with plenty of soap and water. Seek medical assistance in the event of problems.

Eye Contact:
Rinse with plenty of water for at least 10 minutes. Get medical help and show the label.

Remarks:
Risk of aspiration resulting in chemical lung inflammation.

5. FIRE-FIGHTING MEASURES

Highly Flammable:
Even at temperatures significantly below room temperature, the fumes can create an explosion if mixed with air.

Extinguishing medium:
Extinguish with powder, carbon dioxide or water in dispersed jet. Larger fires can be extinguished with water in a dispersed jet or with alcohol resistant foam. Do NOT use a closed water jet. Containers in the vicinity of fire should be cooled with water mist.

Material Safety Data Sheet TRELLEBORG CLEANING WASH 9700	Date: 27 July 2000																				
6. ACCIDENTAL RELEASE MEASURES																					
<p>Note: Risk of ignition and explosion. Prevent discharge in drains. Contain and suck up inert absorbent (sand, earth, universal bonding agent etc). Do NOT use flammable material. Contact the emergency services in the event of a major spillage.</p>																					
7. HANDLING AND STORAGE																					
<p>Good ventilation – mechanical ventilation or spot suction may be required. Containers to be kept closed as far as possible. No smoking, fire, sparks or welding. Ensure that vessels etc are electrically earthed and avoid free falling jets. Use explosion protected equipment. Fumes are heavier than air.</p> <p>STORAGE: cool and well-sealed storage. Floors/floor coverings should be close fitting and impervious to solvents. Take measures to prevent leakage to drains, watercourses, etc.</p>																					
8. EXPOSURE CONTROLS/PERSONAL PROTECTION																					
<p>Observe applicable hygienic standards for heptanes. Avoid inhalation of fumes and skin contact.</p> <p>PERSONAL PROTECTION EQUIPMENT: Use protective gloves made of e.g. nitrile or PVA. Use safety goggles where there is a risk of splashing. Half or full mask with gas filter A may be necessary.</p>																					
9. PHYSICAL AND CHEMICAL PROPERTIES																					
<table> <tr> <td>Physical State:</td> <td>colourless liquid</td> </tr> <tr> <td>Density:</td> <td>690-720 at 20°C</td> </tr> <tr> <td>Flash Point:</td> <td>< 0°C</td> </tr> <tr> <td>Ignition Temp:</td> <td>approx 215°C ASTM D2155</td> </tr> <tr> <td>Explosion area (vol. %)</td> <td>1.1 – 7.0</td> </tr> <tr> <td>Melting Point:</td> <td>< -60°C</td> </tr> <tr> <td>Boiling Point:</td> <td>92 - 99°C</td> </tr> <tr> <td>Steam Pressure (Kpa):</td> <td>10 at 20°C</td> </tr> <tr> <td>Gas Density (air = 1):</td> <td>> 1</td> </tr> <tr> <td>Soluble in water:</td> <td>0.1 g/l 20°C</td> </tr> </table>		Physical State:	colourless liquid	Density:	690-720 at 20°C	Flash Point:	< 0°C	Ignition Temp:	approx 215°C ASTM D2155	Explosion area (vol. %)	1.1 – 7.0	Melting Point:	< -60°C	Boiling Point:	92 - 99°C	Steam Pressure (Kpa):	10 at 20°C	Gas Density (air = 1):	> 1	Soluble in water:	0.1 g/l 20°C
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10. STABILITY AND REACTIVITY																					
Stable under normal conditions																					
11. TOXICOLOGICAL INFORMATION																					
<p>Inhalation: Can cause dizziness, fatigue, headache and nausea. At high concentrations there is a risk of impaired reactions, grogginess, unconsciousness.</p> <p>Skin contact: Causes irritation and degreasing which can cause cracked skin, redness and in the event of prolonged contact, eczema (non-allergic).</p> <p>Splashes in eyes: Causes strong stinging and can cause irritation.</p> <p>If swallowed: Can cause vomiting and the same problems as with inhalation. Lung inflammation can result after a few hours up to 24 hours, if the substance has entered the respiratory system during swallowing or vomiting. Just a few millilitres in the lungs can cause lung inflammation.</p> <p>Toxicological information:</p> <table> <tr> <td>LD50</td> <td>Orally, rat</td> <td>> 2,000 mg/kg</td> </tr> <tr> <td>LD50</td> <td>Dermally, rabbit</td> <td>> 2,000 mg/kg</td> </tr> <tr> <td>LC50</td> <td>Inhalation, rat</td> <td>> 5 mg/l/4h</td> </tr> </table>		LD50	Orally, rat	> 2,000 mg/kg	LD50	Dermally, rabbit	> 2,000 mg/kg	LC50	Inhalation, rat	> 5 mg/l/4h											
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Material Safety Data Sheet		Date: 27 July 2000
TRELLEBORG CLEANING WASH 9700		

12. ECOTOXICOLOGICAL INFORMATION

Toxic to aquatic organisms:

Even at low concentrations, short exposure can cause high mortality or poisoning of several fish species and other aquatic organisms.

Not easily degradable:

Slow decomposition in land and aquatic environments. In the event of spillage or discharge, the majority quickly evaporates. Bio-accumulation in the aquatic environment.

Aquatic Toxicity:

LC50 fish: 1-10 mg/l
 IC50 algiers: 1-10 mg/l

Other:

German water harmful class, WGK: 1 (scale 0-3, where 3 is the most harmful). On account of the rapid evaporation, the product is of no significant danger to the aquatic environment in practice. In the air, rapid photochemical oxidation occurs.

13. WASTE MANAGEMENT

The substance is covered by the Ordinance on environmentally harmful waste (SFS 2001:1063).

Discharges into the environment should, if possible, be prevented.

Consult local authorities regarding the handling of waste.

Empty packaging should be deposited at local recycling centres or collected by local contractors on the condition that all risks have been eliminated.

14. TRANSPORT INFORMATION

UN-nr: 1206 **Proper Shipping Name:** Heptanes

RID/ADR (land transport):

Hazard class: 3
 ADR Label no: 3
 Packing Group: II
 Hazard No: 33
 TK ID: 2995

IMDG (sea transport)

Hazard class: 3
 EmS No: F-E, S-E
 Flash point: -4°C
 Packing Group: II

DGR (air transport)

Class: 3
 Packing Group: II

15. REGULATORY INFORMATION

Classification:

Chemical product hazardous to health

Symbol: Xn, St Andrew's Cross
 Hazard designation: Hazardous to health

Environmentally hazardous chemical product

Symbol: N, Environmental hazard symbol
 Hazard designation: Environmentally hazardous

Inflammable chemical product

Symbol: F, Flame
 Hazard designation: Highly flammable

Fire class: 1

Material Safety Data Sheet TRELLEBORG CLEANING WASH 9700		Date: 27 July 2000																				
<p>Contents: Naphtha (Petroleum), hydrogen processed light of which n-hexane max 1%</p> <p>Risk and safety phrases:</p> <table border="0"> <tr><td>R11</td><td>Highly flammable</td></tr> <tr><td>R65</td><td>Hazardous: can cause lung damage if swallowed</td></tr> <tr><td>R67</td><td>Fumes can cause drowsiness</td></tr> <tr><td>R38</td><td>Skin irritant</td></tr> <tr><td>R51/53</td><td>Toxic to aquatic organisms, can cause harmful long term effects in the aquatic environment</td></tr> <tr><td>S9</td><td>Packaging to be stored in well ventilated area</td></tr> <tr><td>S16</td><td>Stored separately from sources of ignition – Smoking forbidden</td></tr> <tr><td>S33</td><td>Take measures against static electricity</td></tr> <tr><td>S61</td><td>Avoid discharges into the environment. Read special instructions/product information sheets.</td></tr> <tr><td>S62</td><td>In the event of swallowing, do not encourage vomiting. Immediately contact a doctor and show this package or the label.</td></tr> </table> <p>Other Information on the label:</p> <p>EU no: 265-151-9</p> <p>Other Regulations:</p> <p>The National Board of Occupational Safety and Health directions “Hygienic Standards”, AFS 2000:3</p> <p>National Inspectorate of Explosives and Flammables’ statute book, SAIFS 2000:2, on authorisation for the handling of flammable gases and liquids.</p> <p>Classified in accordance with KIFS 1994:12, latest change 2001:3</p> <p>Safety Data Sheet in accordance with KIFS 1998:8, latest change 2001:4</p>			R11	Highly flammable	R65	Hazardous: can cause lung damage if swallowed	R67	Fumes can cause drowsiness	R38	Skin irritant	R51/53	Toxic to aquatic organisms, can cause harmful long term effects in the aquatic environment	S9	Packaging to be stored in well ventilated area	S16	Stored separately from sources of ignition – Smoking forbidden	S33	Take measures against static electricity	S61	Avoid discharges into the environment. Read special instructions/product information sheets.	S62	In the event of swallowing, do not encourage vomiting. Immediately contact a doctor and show this package or the label.
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<p>Other Safety Phrases:</p> <table border="0"> <tr><td>S23</td><td>Avoid inhalation of gas/fumes/mist</td></tr> <tr><td>S24</td><td>Avoid skin contact</td></tr> <tr><td>S60</td><td>This material and its container to be treated as hazardous waste</td></tr> </table>			S23	Avoid inhalation of gas/fumes/mist	S24	Avoid skin contact	S60	This material and its container to be treated as hazardous waste														
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Material Safety Data Sheet (91/155/EEC)	Model: */4	Date: 16 March 2001
TRELLEBORG CONTACT ADHESIVE 5000		Reviewed on: 11 May 2004

1. PRODUCT AND COMPANY IDENTIFICATION




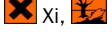
Product name:
Trelleborg Contact Adhesive 5000

Supplier: Trelleborg Building Systems AB Sweden	Address: Trelleborg Building Systems AB Rubber Membranes Division Post Office Box 1010 SE – 33129 Värnamo, Sweden Telephone: + 46 370 48100 Fax: + 46 370 48500
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Emergency Telephone Number: + 46 370 48100

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature:
Mixture of substances listed below with non-hazardous additions.

Hazardous components:	Low boiling point hydrogen treated naphtha	25 - 50%
	 Xn, F, N: R 11-51/53-65-67	
CAS: 110-82-7	Cyclohexane	10 - 25%
EINECS: 203-806-2	 Xn, F, N: R 11-38-50/53-65-67	
CAS: 141-78-6	Ethyl Acetate	10 - 25%
EINECS: 205-500-4	 Xi, F: R 11-36-66-67	
CAS: 136-23-2	zinc bis (dibutyldithiocarbamate)	≤ 2.5%
EINECS: 205-232-8	 Xi, N: R 36/37/38-43-50/53	

Additional information: For the wording of the listed risk phrases refer to section 16.

3. HAZARDS IDENTIFICATION

		F Highly Flammable N Dangerous for the environment
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Information concerning particular hazards for humans and the environment
The product has to be labelled according to the calculation procedure of the 'General Classification guideline for preparations of the EU' in the latest valid version.
Has a narcotising effect.
R 11 Highly flammable
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R 67 Vapours may cause drowsiness and dizziness.
Classification System: The classification is according to the latest editions of the EU lists and extended by company and literature data.

4. FIRST AID MEASURES

Inhalation: Supply fresh air; consult a doctor in case of complaints.
Skin Contact: Generally the product does not irritate the skin.
Eye Contact: Rinse open eye for several minutes under running water, then consult a doctor.
Swallowing: If symptoms persist, consult doctor

5. FIRE-FIGHTING MEASURES

Extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable agent: Water with full jet
Protective equipment: Not required

Material Safety Data Sheet (93/112/EC) TRELLEBORG CONTACT ADHESIVE 5000	Model: */4	Date: 16 March 2001 Reviewed on: 11 May 2004
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
 Wear protective equipment. Keep unprotected persons away.

Environmental Precautions:
 Prevent seepage into sewage system, workpits and cellars
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers, surface or ground water.

Cleansing Methods:
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)
 Ensure adequate ventilation

7. HANDLING AND STORAGE

Information for safe handling:
 Ensure good ventilation at the workplace.
 Prevent formation of aerosols.

Information about fire and explosion protection:
 Keep ignition sources away – Do not smoke
 Protect against electrostatic charges

Requirements to be met by storerooms and receptacles: Store in a cool location
Information about storage in one common storage facility: Not required
Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7

Ingredients with limit values that require monitoring at the workplace:


110-82-7 cyclohexane (10-25%)
 OES Short-term value: 1050 mg/m³, 300 ppm
 Long-term value: 350 mg/m³, 100 ppm

141-78-6 ethyl acetate (10-25%)
 OES Short-term value: 400 ppm
 Long-term value: 200 ppm
 Rev

471-34-1 calcium carbonate (2.5-10%)
 OES Long-term value: 10*4**mg/m³
 *total inhalable dust ** respirable dust

Additional information: The lists valid during the making were used as basis.

Personal Protective Equipment:
General protective and hygienic measures: Wash hands before breaks and at the end of work.
Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protective device.
 Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:  Protective gloves

The glove material has to be impermeable and resistant to the product / the substance / the preparation
 Due to missing tests, no recommendation to the glove material can be given for the product / the preparation / the chemical mixture.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
 The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and therefore has to be checked prior to the application.

Penetration time of glove material
 The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection  Tightly sealed goggles

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TRELLEBORG CONTACT ADHESIVE 5000 Reviewed on: 11 May 2004

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Physical State:	Fluid
Colour:	Black
Odour:	Characteristic
Change in condition:	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	60°C
Flash Point:	-18°C
Ignition temperature:	260°C
Self-igniting:	Product is not self igniting
Danger of explosion:	Product is not explosive, however, formation of explosive air/vapour mixes are possible
Explosion limits:	
Lower:	1.2 Vol%
Upper:	11.5 Vol%
Vapour Pressure at 20°C:	155.0 hPa
Density at 20°C	0.865 g/cm ³
Solubility in/Miscibility with water:	Not miscible or difficult to mix
Viscosity:	
Dynamic at 20°C	2500mPas
Solvent content:	
Organic solvents:	56.8%
Solids content:	43.2%

10. STABILITY AND REACTIVITY

Thermal decomposition / circumstances to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known

Hazardous decomposition products: No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
LDL/LC50 values relevant for classification:
110-82-7 cyclohexane
 Oral LD50 12705 mg/kg (rat)

Primary irritant effect:
on the skin: No irritating effect
on the eye: No irritating effect
Sensitisation: No sensitising effects known

12. ECOTOXICOLOGICAL INFORMATION

Ecotoxicological effects:

Remark: Toxic for fish

General notes:
 Water hazard class 2 (German Regulation) (Self Assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies
 Toxic for aquatic organisms

Material Safety Data Sheet (91/155/EEC) TRELLEBORG CONTACT ADHESIVE 5000	Model: */4	Date: 16 March 2001 Reviewed on: 11 May 2004
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13. DISPOSAL CONSIDERATIONS

Product:

Recommendation

Must not be disposed together with household waste
 Do not allow product to reach sewage system

European waste catalogue:

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned packaging

Recommendation:

Packaging may be reused or recycled after cleaning
 Packaging that may not be cleaned is to be disposed of in the same manner as the product.

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross border)

ADR/RID class: 3 Flammable liquids
Danger code (Kemler): 33
UN -Number: 1133
Packaging group: III
Hazard label: 3
Description of goods: 1133 ADHESIVES (with a flash point below 23°C and viscous according 2.2.3.1.4)
 (Vapour pressure at 50°C at most 110 kPa)



Marine Transport IMDG

IMDG Class: 3
UN-Number: 1133
Label: 3
Packaging group: III
EMS Number: F-E, S-D
Marine Pollutant: No
Proper shipping name: ADHESIVES



Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 3
UN/ID Number: 1133
Label: 3
Packaging Group: III
Proper shipping name: ADHESIVES



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TRELLEBORG CONTACT ADHESIVE 5000		Revision of: 11 May 2004

15. REGULATORY INFORMATION

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



F Highly flammable
N Dangerous for the environment

Risk phrases:

11 Highly flammable
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
67 Vapours may cause drowsiness and dizziness

Safety phrases:

9 Keep container in a well-ventilated place
16 Keep away from sources of ignition – No smoking
20 When using, do not eat or drink
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
24 Avoid contact with skin
57 Use appropriate container to avoid environmental contamination

Special labelling of certain preparations:

Contains zinc bis (dibutyldithiocarbamate). May produce an allergic reaction.

National regulations:

Technical instructions (air):

Class	Share in %
I	0.8
NK	56.8

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water

16. OTHER INFORMATION *

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

11 Highly flammable
36 Irritating to eyes
36/37/38 Irritating to eyes, respiratory system and skin
38 Irritating to skin
43 May cause sensitisation by skin contact
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
65 Harmful: may cause lung damage if swallowed
66 Repeated exposure may cause skin dryness or cracking
67 Vapours may cause drowsiness and dizziness

* Data compared to the previous version altered

Material Safety Data Sheet

According to 91/155 EC

Printing date 25/04/2003

Reviewed on 14.02.2002

1. Identification of substance

Trade name: **Primer 9800**

Application of the substance / the preparation *Primer*

Manufacture/Supplier:

Trelleborg Building Systems AB

Rubber Membranes

P.O. Box 1004

SE 33129 Värnamo Sweden

Tel: 0046 (0)370 48 100

Fax: 0046 (0)370 48 500

Further information obtainable from: *Tel: 0046 (0)370 48 100; Jörgen Skärin*

2. Composition/Data on components

Chemical characterization

Description: *preparation*

Dangerous components:

<u>CAS-No.</u>	<u>Designation</u>	<u>%</u>	<u>R Sets Code Letter</u>
8050-09-7	<i>Resin</i>	<i>25-50</i>	<i>Xi; R43</i>
<i>EINECS: 232-475-7</i>			
123-86-4	<i>n-butyl acetate</i>	<i>25-50</i>	<i>R 10-66-67</i>
<i>EINECS: 204-658-1</i>			
1330-20-7	<i>xylene, mixed</i>	<i>< 10</i>	<i>Xn; R 10-20/21-38</i>
<i>ENECS: 215.535-7</i>	<i>isomers, pure</i>		
100-41-4	<i>ethylbenzene</i>	<i>< 5.0</i>	<i>Xn; F; R 11-20</i>
<i>EINECS: 202-849-4</i>			

Additional information: *For the wording of the listed risk phrases refer to section 16.*

3. Hazards identification

Hazard designation: *not applicable*

Information pertaining to particular dangers for man and environment

R 10 Flammable

R 67 Vapours may cause drowsiness and dizziness.

4. First aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.

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Reviewed on 14.02.2002

In case of unconsciousness bring patient into a stable side position for transport.

After skin contact:

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing: *Do not induce vomiting; call for medical help immediately.*

5. Fire fighting measures

Suitable extinguishing agents:

Water spray

Alcohol-resistant foam

Fire-extinguishing powder

Carbon dioxide

For safety reasons unsuitable extinguishing agents: *Water with full jet.*

Special hazard caused by the material, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: *Wear self-contained respiratory protective device.*

6. Accidental release measures

Person-related safety precaution:

Ensure adequate ventilation

Keep away from ignition sources

Use respiratory protective device against the effects of fumes/dust/aerosol.

Measures for environmental protection:

Do not allow to enter sewers/surface or ground water.

Measures for cleaning/collecting: *Pick up mechanically.*

7. Handling and storage

Handling

Information for safe handling: *Ensure good ventilation/exhaustion at the workplace.*

Information about protection against explosions and fires:

Keep ignition source away – Do not smoke

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

Storage

Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

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Information about storage in one common storage facility: *Store away from foodstuffs.*

Further information about storage conditions:

Protect from frost.

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

Store in dry conditions.

8. Exposure controls and personal protection

Additional information about design of technical systems: *No further data; see item 7.*

Components with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

OES Short-term value: 966 mg/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

1330-20-7 xylene, mixed isomers, pure

OES Short-term value: 441 mg/m³, 100 ppm

Long-term value: 220 mg/m³, 50 ppm

SK

100-41-4 ethylbenzene

OES Short-term value: 552 mg/m³, 125 ppm

Long-term value: 441 mg/m³, 100 ppm

IOELV, SK

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of the work.

Breathing equipment: *Use suitable respiratory protective device in case of insufficient ventilation.*

Protection of hands:

Protective gloves made of the following material:

Butyl rubber, BR. The named material refers only to the chemical resistance to the product. Another important factor in the selection of the right gloves is their resistance to mechanical wear and tear. This, however, can differ completely from company to company which is why we recommend that users contact glove manufacturers in order to establish compliance with their own individual operating needs. Attention is also to be paid to an adequate penetration time (resistance) of the glove material which complies with the strength and duration of exposure to the product.

Eye protection: *Safety glasses*

Material Safety Data Sheet

According to 91/155 EC

Printing date 25/04/2003

Reviewed on 14.02.2002

9. Physical and chemical properties:

General Information

Form: *Fluid*
Colour: *Red*
Odour: *Solvent-like*

Change in condition

Boiling point/Boiling range: *124 °C*

Flash point: *24 °C*

Ignition temperature: *370 °C*

Explosion limits:

Lower: *1.0 Vol %*
Upper: *10.4 Vol %*

Vapour pressure at 20 °C: *13 hPa*

Specific gravity at 20 °C: *0.96 g/cm³*

**Solubility in / Miscibility with
Water:**

Insoluble

Viscosity:

dynamic at 20 °C: *560 mPas (Brookfield)*

Solvent content:

Organic solvents: *45.0 %*

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Dangerous reactions: *Reacts with strong oxidizing agents*

Dangerous products of decomposition:

None, if used according to instructions and stored according to regulations

11. Toxicological information

Acute toxicity:

Primary irritant effect:

Material Safety Data Sheet

According to 91/155 EC

Printing date 25/04/2003

Reviewed on 14.02.2002

on the skin: *Prolonged or repeated contact with the skin may cause skin irritation.*

Additional toxicological information: *Vapours may cause drowsiness and dizziness.*

12. Ecological information

General notes: *Do not allow product to reach ground water, water course or sewage system.*

13. Disposal considerations

Product:

Recommendation: *Disposal in accordance with official regulations*

EWC-Code(s):

080411, 080409, 080410,

(depending on waste origination process)

Uncleaned packagings:

Recommendation: *Disposal must be made according to official regulations.*

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class: *3 Flammable liquids.*

Danger code (Kemler): *30*

UN-Number: *1133*

Packaging group: *III*

Designation of goods: *1133 ADHESIVES (not viscous)*

Maritime transport IMDG:

IMDG class: *3*

UN-Number: *1133*

Packaging group: *III*

EMS Number: *3-05*

Proper shipping name: *ADHESIVES*

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA-DGR: *3*

UN/ID-Number: *1133*

Packaging group: *III*

Proper shipping name: *ADHESIVES*

Material Safety Data Sheet

According to 91/155 EC

Printing date 25/04/2003

Reviewed on 14.02.2002

15. Regulations

Markings according to EC guidelines:

Risk phrases:

10 Flammable

67 Vapours may cause drowsiness and dizziness.

Safety phrases:

23 Do not breathe vapour/aerosol

25 Avoid contact with eyes.

51 Use only in well-ventilated areas.

16. Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

For industrial use only.

Relevant R-phrases

10

Flammable

11

Highly flammable

20

Harmful by inhalation

20/21

Harmful by inhalation and in contact with skin

38

Irritating to skin

43

May cause sensitisation by skin contact

66

Repeated exposure may cause skin dryness or cracking

67

Vapours may cause drowsiness and dizziness

Material Safety Data Sheet (93/112/EC)	Model: */4	Date: 16 March 2001
TRELLEBORG PASTE ADHESIVE 3300		Reviewed on: 11 May 2004

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:
Trelleborg Paste Adhesive 3300

Supplier: Trelleborg Building Systems AB
 Sweden











Address: Trelleborg Building Systems AB
 Rubber Membranes Division
 Post Office Box 1010
 SE – 33129 Värnamo, Sweden
 Telephone: + 46 370 48100
 Fax: + 46 370 48500

Emergency Telephone Number: + 46 370 48100

2. COMPOSITION / INFORMATION ON INGREDIENTS

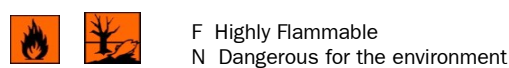
Chemical nature:
 Mixture of substances listed below with non-hazardous additions.

Hazardous components:

CAS: 141-78-6	ethyl acetate	10 - 25%
EINECS: 205-500-4	 Xi,  F; R 11-36-66-67	
CAS: 110-82-7	cyclohexane	2.5 - 10%
EINECS: 203-806-2	 Xn,  F,  N; R 11-38-50/53-65-67	
	Low boiling point hydrogen treated naphtha	2.5 – 10%
	 Xn,  F,  N; R 11-51/53-65-67	
CAS: 136-23-2	zinc bis (dibutyldithiocarbamate)	≤ 2.5%
EINECS: 205-232-8	 Xi,  N; R 36/37/38-43-50/53	

Additional information: For the wording of the listed risk phrases refer to section 16.

3. HAZARDS IDENTIFICATION



Information concerning particular hazards for humans and the environment
 The product has to be labelled according to the calculation procedure of the 'General Classification guideline for preparations of the EU' in the latest valid version.
 Has a narcotising effect.
 R 11 Highly flammable
 R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R 67 Vapours may cause drowsiness and dizziness.
Classification System: The classification is according to the latest editions of the EU lists and extended by company and literature data.

4. FIRST AID MEASURES

Inhalation: Supply fresh air; consult a doctor in case of complaints.
Skin Contact: Generally the product does not irritate the skin.
Eye Contact: Rinse open eye for several minutes under running water, then consult a doctor.
Swallowing: If symptoms persist, consult doctor

5. FIRE-FIGHTING MEASURES

Extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable agent: Water with full jet
Protective equipment: No special measures required

Material Safety Data Sheet (91/155/EEC)	Model: */4	Date: 16 March 2001
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear protective equipment. Keep unprotected persons away.

Environmental Precautions:

Prevent seepage into sewage system, workpits and cellars
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers, surface or ground water.

Cleansing Methods:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)
Ensure adequate ventilation

7. HANDLING AND STORAGE

Information for safe handling:

Keep away from heat and direct sunlight

Information about fire and explosion protection:

Keep ignition sources away – Do not smoke
Protect against electrostatic charges

Requirements to be met by storerooms and receptacles: Store in a cool location

Information about storage in one common storage facility: Not required

Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7

Ingredients with limit values that require monitoring at the workplace:

471-34-1 calcium carbonate (25-50%)

OES Long-term value: 10*4**mg/m³
*total inhalable dust ** respirable dust

141-78-6 ethyl acetate (10-25%)

OES Short-term value: 400 ppm
Long-term value: 200 ppm
Rev

110-82-7 cyclohexane (2.5-10%)

OES Short-term value: 1050 mg/m³, 300 ppm
Long-term value: 350 mg/m³, 100 ppm

Additional information: The lists valid during the making were used as basis.

Personal Protective Equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product / the substance / the preparation.
Due to missing tests, no recommendation to the glove material can be given for the product / the preparation / the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and therefore has to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection



Tightly sealed goggles

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9. PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Physical State:	Paste
Colour:	Dark Grey
Odour:	Characteristic
Change in condition:	
Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	77°C
Flash Point:	0°C
Ignition temperature:	460°C
Self-igniting:	Product is not self igniting
Danger of explosion:	Product is not explosive, however, formation of explosive air/vapour mixes are possible
Explosion limits:	
Lower:	2.1 Vol%
Upper:	11.5 Vol%
Vapour Pressure at 20°C:	97.0 hPa
Density at 20°C	1.150 g/cm ³
Solubility in/Miscibility with water:	Not miscible or difficult to mix
Solvent content:	
Organic solvents:	24%
Solids content:	76%

10. STABILITY AND REACTIVITY

Thermal decomposition / circumstances to be avoided: No decomposition if used according to specifications.
Dangerous reactions: No dangerous reactions known
Hazardous decomposition products: No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
LDL/LC50 values relevant for classification:
110-82-7 cyclohexane
 Oral LD50 12075 mg/kg (rat)

Primary irritant effect:
on the skin: No irritating effect
on the eye: No irritating effect

Sensitisation: No sensitising effects known

12. ECOTOXICOLOGICAL INFORMATION

Ecotoxicological effects:

Remark: Toxic for fish

General notes:
 Water hazard class 2 (German Regulation) (Self Assessment): slightly hazardous for water
 Do not allow undiluted product, or large quantities to reach ground water, water course or sewage system
 Also poisonous for fish and plankton in water bodies
 Toxic for aquatic organisms

Material Safety Data Sheet (91/155/EEC) TRELLEBORG PASTE ADHESIVE 3300	Model: */4	Date: 16 March 2001 Reviewed on: 11 May 2004
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13. DISPOSAL CONSIDERATIONS

Product:

Recommendation

Must not be disposed together with household waste
 Do not allow product to reach sewage system

European waste catalogue:

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

Uncleaned packaging

Recommendation:

Disposal must be made according to official regulations

14. TRANSPORT INFORMATION

Land transport ADR/RID (cross border)

ADR/RID class: 3 Flammable liquids
Danger code (Kemler): 33
UN -Number: 1133
Packaging group: III
Hazard label: 3
Description of goods: 1133 ADHESIVES (not viscous)



Marine Transport IMDG

IMDG Class: 3
UN-Number: 1133
Label: 3
Packaging group: III
EMS Number: F-E, S-D
Marine Pollutant: No
Proper shipping name: ADHESIVES



Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class: 3
UN/ID Number: 1133
Label: 3
Packaging Group: III
Proper shipping name: ADHESIVES



Material Safety Data Sheet 91/155/EEC)	Model: */4	Date: 16 March 2001
TRELLEBORG PASTE ADHESIVE 3300		Revision of: 11 May 2004

15. REGULATORY INFORMATION

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



F Highly flammable
N Dangerous for the environment

Risk phrases:

11 Highly flammable
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
67 Vapours may cause drowsiness and dizziness

Safety phrases:

9 Keep container in a well-ventilated place
16 Keep away from sources of ignition – No smoking
26 In case of contact with eyes, rinse immediately with water and seek medical advice
33 Take precautionary measures against static discharges
43 In case of fire, use water
57 Use appropriate container to avoid environmental contamination

Special labelling of certain preparations:

Contains zinc bis (dibutylidithiocarbamate). May produce an allergic reaction.

National regulations:

Technical instructions (air):

Class	Share in %
I	0.2
NK	25.9

Waterhazard class: Water hazard class 2 (Self-assessment): slightly hazardous for water

16. OTHER INFORMATION *

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

11 Highly flammable
36 Irritating to eyes
36/37/38 Irritating to eyes, respiratory system and skin
38 Irritating to skin
43 May cause sensitisation by skin contact
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
65 Harmful: may cause lung damage if swallowed
66 Repeated exposure may cause skin dryness or cracking
67 Vapours may cause drowsiness and dizziness

* Data compared to the previous version altered