

ersion: 4.0			
	Revision	Date 21.05.2013	Print Date 04.09.20
ECTION 1: Identification of t	he substanc	e/mixture and of the	company/undertaking
.1 Product identifier			
Trade name	: Ardrox 39	66	
.2 Relevant identified uses of th	ne substance	or mixture and uses ad	vised against
Use of the Sub-	: Corrosion	inhibitor	
stance/Mixture Recommended restrictions on use	: None kno	wn.	
1.3 Details of the supplier of the	safety data sł	neet	
Company Telephone	D Bl	hemetall Ltd enbigh Road etchley Milton Keynes N 1908 649333	/К1 1РВ
Telefax	-	1908 373939	
Contact person product safety Telephone E-mail address	: +4	19(0)6971652832 sds.de@chemetall.com	
1.4 Emergency telephone number			
Emergency telephone	: 01908 649	333	
number			
number			
number	ation		
number SECTION 2: Hazards identific	ation ce or mixture		
number SECTION 2: Hazards identific 2.1 Classification of the substan	ation ce or mixture N (EC) No 127 3	<b>2/2008)</b> H226: Flammable liquid H304: May be fatal if sv	l and vapour. vallowed and enters air-
number SECTION 2: Hazards identific 2.1 Classification of the substan Classification (REGULATIO Flammable liquids, Category 3	eation ce or mixture N (EC) No 127 3 single ex-	<b>2/2008)</b> H226: Flammable liquid	vallowed and enters air-
number SECTION 2: Hazards identific 2.1 Classification of the substan Classification (REGULATIO Flammable liquids, Category 3 Aspiration hazard, Category 1 Specific target organ toxicity - posure, Category 3, Central n	eation ce or mixture N (EC) No 127 3 single ex-	<b>2/2008)</b> H226: Flammable liquid H304: May be fatal if sv ways.	vallowed and enters air- siness or dizziness. wed.
number SECTION 2: Hazards identific 2.1 Classification of the substan Classification (REGULATIO Flammable liquids, Category 3 Aspiration hazard, Category 1 Specific target organ toxicity - posure, Category 3, Central n system Acute toxicity, Category 4	eation ce or mixture N (EC) No 127 3 single ex- ervous	<b>2/2008)</b> H226: Flammable liquid H304: May be fatal if sv ways. H336: May cause drows H302: Harmful if swallo	vallowed and enters air- siness or dizziness. wed.
number SECTION 2: Hazards identific 2.1 Classification of the substan Classification (REGULATIO Flammable liquids, Category 3 Aspiration hazard, Category 1 Specific target organ toxicity - posure, Category 3, Central n system Acute toxicity, Category 4 Acute toxicity, Category 4	eation ce or mixture N (EC) No 127 3 single ex- ervous	<b>2/2008)</b> H226: Flammable liquid H304: May be fatal if sv ways. H336: May cause drows H302: Harmful if swallo	vallowed and enters air- siness or dizziness. wed. d.

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R20/22: Harmful by inhalation and if swallowed. R66: Repeated exposure may cause skin dryness or cracking.         2 Label elements         Labelling (REGULATION (EC) No 1272/2008)         Hazard pictograms       :	ersion: 4.0	Revision D	ate 21.05.2013	Print Date 04.09.20
Labelling (REGULATION (EC) No 1272/2008)         Hazard pictograms       :         Signal word       :         Danger         Hazard statements       :         H304       May be fatal if swallowed and enters airways.         H302       Harmful if swallowed.         H332       Harmful if swallowed.         H336       May cause drowsiness or dizziness.         :       EUH066         Repeated exposure may cause skin dryness or cracking.         Precautionary statements       :         P200       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P260       Do not get in eyes, on skin, or on clothing.         P280       Wear protective gloves/ protective clothing/ eye protection.         Response:       P303 + P361 + P353       IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.         P301 + P330 + P331       IF SWALLOWED: rinse mouth. Do NOT induce vomiting.         P300       IF exposed or concerned: P310         P310       Immediately call a POISON CENTER or doctor/ physician.         Dispose       p501       Dispose of contents/ container to an ap-		I	R66: Repeated exposure	
Hazard pictograms       :       Image: Construction of the system	2 Label elements			
Signal word       :       Danger         Hazard statements       :       H226 H304 H304 H304 H302 Harmful if swallowed and enters air- ways. H302 H372 H372 H372 H372 H372 H372 H372 H37	Labelling (REGULATION (	EC) No 1272/2008	3)	
Hazard statements       :       H226       Flammable liquid and vapour.         H304       May be fatal if swallowed and enters airways.         H302       Harmful if swallowed.         H332       Harmful if inhaled.         H336       May cause drowsiness or dizziness.         :       EUH066       Repeated exposure may cause skin dryness or cracking.         Precautionary statements       :       Prevention:         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P260       Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.         P262       Do not get in eyes, on skin, or on clothing.         P280       Wear protective gloves/ protective clothing/ eye protection/ face protection.         Response:       P303 + P361 + P353       IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.         P301 + P330 + P331       IF SWALLOWED: rinse mouth. Do NOT induce vomiting.         P308       IF exposed or concerned: P310       P308         P300       IF exposed or concerned: P310       P301         P301       IF paposed or concerned: P310       P301         P303       IF exposed or conterned: P310         P304       P305       P305       P305         P305       IF expose of cont	Hazard pictograms			
H304       May be fatal if swallowed and enters airways.         H302       Harmful if swallowed.         H332       Harmful if inhaled.         H336       May cause drowsiness or dizziness.         :       EUH066       Repeated exposure may cause skin dryness or cracking.         Precautionary statements       :       Prevention:         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P260       Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.         P262       Do not get in eyes, on skin, or on clothing.         P280       Wear protection/ face protection.         Response:       P303 + P361 + P353       IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.         P301 + P330 + P331       IF SWALLOWED: rinse mouth. Do NOT induce vomiting.         P308       IF exposed or concerned: P310         P308       IF exposed or concerned: P310         P308       IF exposed or concerned: P310         P301       Disposal:         P501       Dispose of contents/ container to an ap-	Signal word	: Danger		
H332       Harmful if inhaled.         H336       May cause drowsiness or dizziness.         :       EUH066       Repeated exposure may cause skin dryness or cracking.         Precautionary statements       :       Prevention:         P210       Keep away from heat/sparks/open flames/hot surfaces No smoking.         P260       Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.         P262       Do not get in eyes, on skin, or on clothing.         P280       Wear protective gloves/ protective clothing/ eye protection/ face protection.         Response:       P303 + P361 + P353       IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.         P301 + P330 + P331       IF SWALLOWED: rinse mouth. Do NOT induce vomiting.         P308       IF exposed or concerned: P310         P308       IF exposed or concerned: P310         P308       IF exposed or concerned: P310         P309       P310         Immediately call a POISON CENTER or doctor/ physician.         Disposal:       P501	Hazard statements	-	May be fatal if swa ways.	allowed and enters air-
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P301 + P330 + P331       IF SWALLOWED: rinse mouth. Do         NOT induce vomiting.         P308       IF exposed or concerned:         P310       Immediately call a POISON CENTER or doctor/ physician.         Disposal:       P501         Dispose of contents/ container to an ap-			I + P353 IF ON SKIN ( off immediately all	or hair): Remove/ Take contaminated clothing.
P310 Immediately call a POISON CENTER or doctor/ physician. Disposal: P501 Dispose of contents/ container to an ap-		P301 + P330	) + P331 IF SWALLOW	/ED: rinse mouth. Do
Disposal:P501Dispose of contents/ container to an ap-			IF exposed or cone Immediately call a	cerned:
I			Dispose of content	
Hazardous components which must be listed on the label:	I Hazardous components whi	ch must be listed o	on the label:	

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• • 61790-48-5	Hydrocarbons, C9-C11, n-alka Bariumsulfonate	nes, isoalkanes, cyclic	s, < 2% aromatics
Labelling according t	o EC Directives (1999/45/EC)		
Hazard pictograms	: Harmful		
R-phrase(s)	R20/22 H R65 H lo R66 R	ammable. armful by inhalation an armful: may cause lung wed. epeated exposure may ess or cracking.	g damage if swal-
S-phrase(s)	S24/25         Av           S36/37/39         W           ar           S60         TI           di           S62         If           m	o not breathe gas/fume void contact with skin a lear suitable protective nd eye/face protection. his material and its cor sposed of as hazardou swallowed, do not indu edical advice immedia ontainer or label.	and eyes. clothing, gloves ntainer must be us waste. uce vomiting: seek
Hazardous component • • 61790-48-5	s which must be listed on the lab Hydrocarbons, C9-C11, n-alka Bariumsulfonate		s, < 2% aromatics
2.3 Other hazards The information require	d is contained in this Material Sa	fety Data Sheet.	
SECTION 3: Composition 3.1 Substances not applicable	on/information on ingredient	S	
3.2 Mixtures			
Chemical nature	: Mixture of organic so	lvents.	
Hazardous componer	nts		
Chemical Name	CAS-No. Classifie EC-No. (67/548, Registration num- ber		ON [%]
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n-alkanes, i	% aromatics	919-857-5 01-2119463258-33 61790-48-5	R10 Xn; R65 R66 R67 Nota H, Nota P Xn; R20/22	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336 Acute Tox. 4;	>= 50 - < 65 >= 2.5 - < 10
		263-140-3	Nota A	H302 Acute Tox. 4; H332	
For the full	text of the R- text of the H-	111-76-2 203-905-0 01-2119475108-36 phrases mentioned i Statements mentioned	n this Section, see ed in this Section, s	ee Section 16.	>= 1 - < 2.5
SECTION 4: F 4.1 Description					
General ac		: First-aid c Move out	rew: Ensure self-pro of dangerous area. ontaminated clothin		ediately.
If inhaled		: Move to fr If sympton	esh air. ns persist, call a ph	ysician.	
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In case of skin contact	:	Wash off with soap and plenty of water. If symptoms persist, call a physician.	
In case of eye contact	:	Rinse immediately with plenty of water, Consult a physician.	also under the eyelids.
If swallowed	:	Rinse mouth with water. Do NOT induce vomiting. Consult a physician.	
2 Most important symptoms a	nd e	effects, both acute and delayed	
Symptoms	:	May cause drowsiness or dizziness.	
Risks	:	Aspiration hazard.	
3 Indication of any immediate	med	dical attention and special treatment n	eeded
Treatment		Treat symptomatically. For specialist advice physicians should Information Service.	
ECTION 5: Firefighting mea	sur	es	
ECTION 5: Firefighting mean 1 Extinguishing media Suitable extinguishing media		es Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray	
1 Extinguishing media	:	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam	
<b>1 Extinguishing media</b> Suitable extinguishing media Unsuitable extinguishing	:	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet	
1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	: : n the	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet	ase of fire.
<ul> <li>1 Extinguishing media</li> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> <li>2 Special hazards arising from Specific hazards during fire-</li> </ul>	: : n the	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet <b>e substance or mixture</b> May form toxic gases on heating or in c Carbon monoxide	ase of fire.
<ul> <li>1 Extinguishing media         <ul> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> </ul> </li> <li>2 Special hazards arising from Specific hazards during fire-fighting</li> <li>3 Advice for firefighters             <ul> <li>Special protective equipment</li> </ul> </li> </ul>	: the :	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet <b>e substance or mixture</b> May form toxic gases on heating or in c Carbon monoxide	
<ul> <li>1 Extinguishing media         <ul> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> </ul> </li> <li>2 Special hazards arising from Specific hazards during fire-fighting</li> <li>3 Advice for firefighters</li> </ul>	: : : : :	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet <b>substance or mixture</b> May form toxic gases on heating or in c Carbon monoxide Carbon dioxide (CO2)	breathing apparatus.
<ul> <li>1 Extinguishing media         <ul> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> </ul> </li> <li>2 Special hazards arising from Specific hazards during fire-fighting</li> <li>3 Advice for firefighters             <ul> <li>Special protective equipment for firefighters</li> </ul> </li> </ul>	: • the : :	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet <b>substance or mixture</b> May form toxic gases on heating or in c Carbon monoxide Carbon dioxide (CO2) In the event of fire, wear self-contained Use water spray to cool unopened cont	breathing apparatus.
<ol> <li>Extinguishing media         Suitable extinguishing media         Unsuitable extinguishing media         Special hazards arising from Specific hazards during fire-fighting     </li> <li>Advice for firefighters         Special protective equipment for firefighters             Further information     </li> <li>ECTION 6: Accidental release         1 Personal precautions, protection     </li> </ol>	: n the : : se r	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet <b>substance or mixture</b> May form toxic gases on heating or in c Carbon monoxide Carbon dioxide (CO2) In the event of fire, wear self-contained Use water spray to cool unopened cont measures e equipment and emergency procedur	breathing apparatus. ainers.
<ul> <li>1 Extinguishing media         Suitable extinguishing media         Unsuitable extinguishing media         2 Special hazards arising from Specific hazards during fire-fighting     </li> <li>3 Advice for firefighters         Special protective equipment for firefighters             Further information     </li> <li>ECTION 6: Accidental release</li> </ul>	: n the : : se r	Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray High volume water jet <b>e substance or mixture</b> May form toxic gases on heating or in c Carbon monoxide Carbon dioxide (CO2) In the event of fire, wear self-contained Use water spray to cool unopened cont measures	breathing apparatus. ainers.

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		Remove all sources of ignition.	
6.2 Environmental precautions			
Environmental precautions	:	Do not flush into surface water or san Avoid subsoil penetration.	itary sewer system.
6.3 Methods and materials for co	nta	inment and cleaning up	
Methods for cleaning up	:	Ensure adequate ventilation. Contain spillage, soak up with non-co material, (e.g. sand, earth, diatomace and transfer to a container for disposa national regulations (see section 13).	ous earth, vermiculite)
6.4 Reference to other sections			
See chapter 8 and 13			
SECTION 7: Handling and sto	raę	je	
7.1 Precautions for safe handling	J		
Advice on safe handling	:	Provide sufficient air exchange and/or Have eye wash bottle or eye rinse rea	
Advice on protection against fire and explosion	:	Keep away from sources of ignition - Normal measures for preventive fire p Take precautionary measures against Vapours may form explosive mixtures	protection. t static discharges.
7.2 Conditions for safe storage, i	nc	uding any incompatibilities	
Requirements for storage areas and containers	:	Keep containers tightly closed in a co- Store in a place accessible by authori Keep away from heat.	
Storage period	:	36 month	
Storage temperature	:	-10 - 40 °C	
7.3 Specific end uses			
Specific use(s)	:	Corrosion inhibitor	
SECTION 8: Exposure control	clr	parsonal protoction	
8.1 Control parameters	3/6	יפיסטומו אוטנכטוטוו	
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Components	CAS-No.	Value	Control pa- rameters	Update	Basis
2- Butoxyetha- nol	111-76-2	TWA	20 ppm 98 mg/m3	2000-06-16	2000/39/EC
Further informa- tion	: skin: Identi Indicative	fies the poss	ibility of significant up	btake through the skin	
	111-76-2	STEL	50 ppm 246 mg/m3	2000-06-16	2000/39/EC
Further informa- tion	: skin: Identi Indicative	ifies the poss	libility of significant up	take through the skin	
	111-76-2	TWA	25 ppm	2005-04-06	GB EH40
Further informa- tion			l nrough skin. The assi bsorption will lead to		hose for which there are
	111-76-2	STEL	50 ppm	2005-04-06	GB EH40
		a bearbed th	rough skin. The assi	ned substances are t	hose for which there are
Further informa- tion			bsorption will lead to		
tion DNEL/DMEL Hydrocarbons alkanes, isoalk < 2% arc	concerns t c, C9-C11, n- anes, cyclics omatics	i End , Exp Pote Valu End Exp Pote	Use: DNEL, Indu osure routes: Ski ential health effec ue: 208 mg/kg by Use: DNEL, Indu osure routes: Inh	systemic toxicity. ustrial use, Worke n contact sts: Long-term sys v/d ustrial use, Worke	rs temic effects rs
tion DNEL/DMEL Hydrocarbons alkanes, isoalk < 2% arc	concerns t , C9-C11, n- anes, cyclics omatics	i End , Exp Pote Valu End Exp Pote	Use: DNEL, Indu osure routes: Ski ential health effec ue: 208 mg/kg by Use: DNEL, Indu osure routes: Inh ential health effec	systemic toxicity. Ustrial use, Worke n contact sts: Long-term sys v/d ustrial use, Worke alation	rs temic effects rs
tion DNEL/DMEL Hydrocarbons alkanes, isoalk < 2% arc <b>xposure contr</b> <b>Engineering m</b> Ensure adequat	concerns t c, C9-C11, n- anes, cyclics omatics ols easures te ventilation, ment should	hat dermal a : End , Exp Pote Valu End Exp Pote Valu be protect	Use: DNEL, Indu osure routes: Ski ential health effec ue: 208 mg/kg by Use: DNEL, Indu osure routes: Inh ential health effec	ustrial use, Worke n contact tts: Long-term sys v/d ustrial use, Worke alation tts: Long-term sys	rs temic effects rs
tion DNEL/DMEL Hydrocarbons alkanes, isoalk < 2% arc <b>xposure contr</b> <b>Engineering m</b> Ensure adequat Electrical equip	ols e ventilation, ment should e original con	hat dermal a : End , Exp Pote Valu End Exp Pote Valu be protect tainer.	Use: DNEL, Indu osure routes: Ski ential health effec ue: 208 mg/kg bv Use: DNEL, Indu osure routes: Inh ential health effec ue: 871 mg/m3	ustrial use, Worke n contact tts: Long-term sys v/d ustrial use, Worke alation tts: Long-term sys	rs temic effects rs

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	equipment. Recommended Filter type: A-P2	
Hand protection	<ul> <li>Nitrile rubber butyl-rubber Protective gloves complying with El Please observe the instructions reg breakthrough time which are provid gloves. Also take into consideration tions under which the product is use cuts, abrasion, and the contact time</li> </ul>	arding permeability and ed by the supplier of the the specific local condi- ed, such as the danger of
Eye protection	: Eye protection (EN 166) Tightly fitting safety goggles	
Skin and body protection	: Chemical resistant protective clothin 13034 (Type 6)	ng according to DIN EN
Hygiene measures	<ul> <li>Take off contaminated clothing and Keep away from food, drink and an Wash hands before breaks and imr product.</li> <li>Avoid contact with skin and eyes.</li> <li>Do not breathe vapour.</li> <li>Do not breathe spray.</li> </ul>	imal feedingstuffs.
Environmental exposure co	ontrols	
General advice	: Do not flush into surface water or sa Avoid subsoil penetration.	anitary sewer system.
ECTION 9: Physical and ch	emical properties	
Information on basic physic	al and chemical properties	
Appearance	: liquid	
Colour	: amber	
Odour	: hydrocarbon-like	
Flash point	: 40 - 45 °C	
рН	: not applicable	
Boiling point/boiling range	: > 150 °C	
Density	: 0.83 g/cm3	
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		at 20 °C	
Water solubility	:	insoluble	
Viscosity, kinematic	:	< 7 mm2/S at  40 °C	
9.2 Other information			
Explosivity	:	Vapours may form explosive mixture v	vith air.
Directive 1999/13/EC on the limitation of emissions of volatile organic compounds	:	Value: 492 g/l	
SECTION 10: Stability and read	act	ivity	
10.1 Reactivity			
No dangerous reaction knowr	n un	der conditions of normal use.	
10.2 Chemical stability			
Stable under normal condition 10.3 Possibility of hazardous rea		ons	
Hazardous reactions	:	None known.	
10.4 Conditions to avoid			
Conditions to avoid	:	Keep away from open flames, hot surf ignition.	aces and sources of
10.5 Incompatible materials			
Materials to avoid	:	Strong oxidizing agents	
10.6 Hazardous decomposition	pro	ducts	
Risk of decomposition.	:	No decomposition if stored and applied	d as directed.
SECTION 11: Toxicological ir	nfoi	mation	
11.1 Information on toxicologica	al ef	fects	
Acute toxicity			
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Acute oral toxicity		
Hydrocarbons, C9-C11, n-		
alkanes, isoalkanes, cyclics, < 2% aromatics	Species: rat Method: OECD Test Guideline 401	
Bariumsulfonate 2-Butoxyethanol	: : LD50: 1,746 mg/kg	
	Species: rat	
Acute dermal toxicity		
Hydrocarbons, C9-C11, n-		
alkanes, isoalkanes, cyclics, < 2% aromatics	Species: rabbit Method: OECD Test Guideline 402	
2-Butoxyethanol	: LD50: > 2,000 mg/kg	
	Species: guinea pig Method: OECD Test Guideline 402	
Skin correction/irritation		
Skin corrosion/irritation		
Skin irritation	: May cause skin irritation in susceptible	persons.
Serious eye damage/eye irri	itation	
Eye irritation	: May cause eye irritation with susceptib	le persons.
Respiratory or skin sensitis	ation	
Respiratory or skin sensitis Sensitisation	ation : no data available	
Sensitisation		
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n-	: no data available : Species: rat	
Sensitisation	: no data available	s on foetal develop-
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	<ul> <li>no data available</li> <li>Species: rat Animal testing did not show any effects</li> </ul>	s on foetal develop-
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics Aspiration hazard	<ul> <li>no data available</li> <li>Species: rat Animal testing did not show any effects ment.</li> </ul>	
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	<ul> <li>no data available</li> <li>Species: rat Animal testing did not show any effects</li> </ul>	
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics Aspiration hazard	<ul> <li>no data available</li> <li>Species: rat Animal testing did not show any effects ment.</li> </ul>	
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics Aspiration hazard Aspiration toxicity	<ul> <li>: no data available</li> <li>: Species: rat Animal testing did not show any effects ment.</li> <li>: May be fatal if swallowed and enters a</li> </ul>	
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics <b>Aspiration hazard</b> Aspiration toxicity Neurological effects	<ul> <li>: no data available</li> <li>: Species: rat Animal testing did not show any effects ment.</li> <li>: May be fatal if swallowed and enters a</li> </ul>	
Sensitisation Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics Aspiration hazard Aspiration toxicity Neurological effects Toxicology Assessment	<ul> <li>: no data available</li> <li>: Species: rat Animal testing did not show any effects ment.</li> <li>: May be fatal if swallowed and enters a</li> <li>: May cause drowsiness or dizziness.</li> </ul>	irways.

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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Ecotoxicology studies for the product are not available.

Toxicity to fish Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	<ul> <li>Limit Test LC50: &gt; 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203</li> </ul>
2-Butoxyethanol	: LC50: 1,490 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish)
Toxicity to daphnia and other a Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	: Limit Test EC50: > 1,000 mg/l
2-Butoxyethanol	: EC50: 1,720 mg/l Exposure time: 24 h Species: Daphnia
Toxicity to algae 2-Butoxyethanol	: Cell multiplication inhibition test EC0: 900 mg/l Exposure time: 168 h Species: Scenedesmus quadricauda (Green algae)
Toxicity to bacteria 2-Butoxyethanol	: EC0: 700 mg/l Exposure time: 16 h Species: Pseudomonas putida
12.2 Persistence and degradabilit	ty
Biodegradability	: no data available
Biodegradability 2-Butoxyethanol	: 100 % Testing period: 28 d Readily biodegradable
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	Zahn-Wellens Test; EG 88/302	
12.3 Bioaccumulative potential		
Bioaccumulation	: Bioaccumulation is unlikely.	
12.4 Mobility in soil		
Distribution among environ- mental compartments 12.5 Results of PBT and vPvB as		
	substances considered to be persistent, l contain substances considered to be very	
12.6 Other adverse effects		
Additional ecological informa- tion	: slightly water endangering Do not flush into surface water or san Do not allow material to contaminate	
13.1 Waste treatment methods Product	: Dispose of in accordance with local r	regulations.
		regulations.
Contaminated packaging	: Dispose of as unused product.	
Waste Code	: Waste codes should be assigned by discussion with the waste disposal a	
SECTION 14: Transport inform	nation	
<b>ADR</b> UN number UN proper shipping name	: 1993 : FLAMMABLE LIQUID, N.O.S., Napł	
Transport hazard class(es) Packing group Classification Code Hazard identification No	drotreated heavy; Low boiling point t : 3 : III : F1 : 30 : LQ7	петталу стаскей парпіпа

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Environmentally hazardous	: no	
ΙΑΤΑ		
UN number	: 1993	
Description of the goods	: FLAMMABLE LIQUID, N.O.S., Naphtha (petroleum), hy-	
Decomption of the geode	drotreated heavy; Low boiling point th	
Class	: 3	
Packing group	: 111	
Labels	: 3	
IATA_C		
Packing instruction (cargo	: 366	
aircraft)		
Environmentally hazardous	: no	
IATA_P		
Packing instruction (passen-	: 355	
ger aircraft)		
Environmentally hazardous	: no	
IMDG		
UN number	: 1993	
Description of the goods	: FLAMMABLE LIQUID, N.O.S., Naph drotreated heavy; Low boiling point th	
Class	: 3	
Packing group	: 111	
Labels	: 3	
EmS Number 1	: F-E	
EmS Number 2	: S-E	
Marine pollutant	: no	
RID		
UN number	: 1993	
Description of the goods	: FLAMMABLE LIQUID, N.O.S., Naph drotreated heavy; Low boiling point th	
Transport hazard class(es)	: 3	
Packing group	: 111	
Classification Code	: F1	
Hazard identification No	: 33	
Labels	: 3	
Packing instruction (LQ)	: LQ7	
Environmentally hazardous	: no	
CTION 15: Regulatory infor	mation	
1 Safety, health and environm	ental regulations/legislation specific fo	or the substance or mixtu
Candidate List of Substances	: This product does not contain substa	
of Very High Concern for	cern (Regulation (EC) No 1907/2006	(REACH), Article 57).
Authorisation		

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Water contaminating class       : WGK 1 slightly water endangering         (Germany)       WWWS A4         Other regulations       : The product is classified and labelled in accordance with EC directives or respective national laws. Regional or national implementations of GHS may not implement all hazard classes and categories. <b>2 Chemical Safety Assessment</b> For the lead substance(s) in the mixture, there is no exposure scenario available.         For a mixture it is not mandatory to include an exposure scenario in the material safety data shee The necessary safety - related information is stated in the first 16 sections. <b>2CTON 16: Other information Full text of R-phrases referred to under sections 2 and 3</b> R10       Flammable.         R20/21/22       Harmful by inhalation, in contact with skin and if swallowed.         R3/33       Irritating to eyes and skin.         R65       Repeated exposure may cause skin dryness or cracking.         R67       Vapours may cause drowsiness and dizziness.         Full text of H-Statements referred to under sections 2 and 3.         EUH066       Repeated exposure may cause skin dryness or cracking.         H226       Flammable liquid and vapour.         H230       Harmful if swallowed.         H230       Rapeated exposure may cause skin dryness or cracking.         H236       Rapeated exposure may cause skin dryness or cracking.	ersion: 4.0		Revision Date 21.05.2013	Print Date 04.09.20
(Germany)       VWVWS Å4         Other regulations       : The product is classified and labelled in accordance with EC directives or respective national laws. Regional or national implementations of GHS may not implement all hazard classes and categories. <b>2 Chemical Safety Assessment</b> For the lead substance(s) in the mixture, there is no exposure scenario available. For a mixture it is not mandatory to include an exposure scenario in the material safety data shee The necessary safety - related information is stated in the first 16 sections. <b>ECTION 16: Other information Ful text of R-phrases referred to under sections 2 and 3</b> R10       Flammable.         R20/21/22       Harmful by inhalation, in contact with skin and if swallowed.         R36/38       Irritating to eyes and skin.         R66       Repeated exposure may cause skin dryness or cracking.         R67       Vapours may cause drowsiness and dizziness. <b>Full text of H-Statements referred to under sections 2 and 3</b> .         EUH066       Repeated exposure may cause skin dryness or cracking.         R67       Vapours may cause drowsiness and dizziness. <b>Full text of H-Statements referred to under sections 2 and 3</b> .         EUH066       Repeated exposure may cause skin dryness or cracking.         H326       Flammable liquid and vapour.         H332       Harmful if swallowed and enters ainways.         H312				
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directives or respective national laws.         Regional or national implementations of GHS may not implement all hazard classes and categories. <b>2 Chemical Safety Assessment</b> For the lead substance(s) in the mixture, there is no exposure scenario available.         For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet         The necessary safety - related information is stated in the first 16 sections. <b>ECTION 16: Other information Full text of R-phrases referred to under sections 2 and 3</b> R10       Flammable.         R20/21/22       Harmful by inhalation, in contact with skin and if swallowed.         R36/38       Irritating to eyes and skin.         R65       Harmful: may cause lung damage if swallowed.         R66       Repeated exposure may cause skin dryness or cracking.         R67       Vapours may cause drowsiness and dizziness. <b>Full text of H-Statements referred to under sections 2 and 3</b> .         EUH066       Repeated exposure may cause skin dryness or cracking.         H326       Flammable liquid and vapour.         H332       Harmful if swallowed.         H336       May cause drowsiness or dizziness.	(Germany)		VWVWS A4	
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H336 May cause drowsiness or dizziness.				
Full text of Notas referred to under section 3				
	Full text of Notas	-		

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Nota A	The name of the substance must appear on the label in the form of one of the designations given in Annex I (see Article 23(2)(a)). In Annex I, use is sometimes made of a general description such as compounds or salt. In this case, the manufacturer or any other person who markets such a substance is required to state on the label the correct name, due account being taken of the chapter entitled Nomenclature of the Foreword: Example: for BeCl2 (Einecs No 232-116-4): beryllium chloride. The Directive also requires that the symbols, indications of danger, R-and S-phrases to be used for each substance shall be those shown in Annex I (Article 23(2)(c), (d) and (e)). For substances belonging to one particular group of substances included in Annex I, the symbols, indications of danger, R- and S-phrases to be used for each substances belonging to one particular group of substances included in Annex I. For substances belonging to more than one group of substances included in Annex I, the symbols, indications of danger, R- and S-phrases to be used for each substance shall be those shown in the appropriate entry in Annex I. For substances belonging to more than one group of substances included in Annex I, the symbols, indications of danger, R- and S-phrases to be used for each substance shall be those shown in both the appropriate entries given in Annex I. In cases where two different classifications are given in the two entries for the same hazard, the classification reflecting the more severe hazard classification is used. Example: for substance AB - no individual entry in Annex I: Annex I group entry for compounds of A: Repr. Cat. 1; R61 Repr. Cat. 3; R62 Xn; R20/22 R33 N; R50-53 Annex I group entry for compounds of B: Carc. Cat. 1; R45 Repr. Cat. 1; R61 Repr. Cat. 3; R62 T; R23/25 R33 N; R50-53.	
Nota H	The classification and label shown for this substances of the category (ies) indicated by the risk p with the category (ies) of danger shown. The m and downstream users of this substance shall investigation to make themselves aware of the data which exists for all other properties to class stance. The final label shall follow the requirem nex VI of this Directive.	stance applies to the phrase(s) in combination nanufacturers, importers be obliged to carry out an relevant and accessible ssify and label the sub-
Nota P	The classification as a carcinogen or mutagen be shown that the substance contains less that (Einecs No 200-753-7). When the substance is gen or mutagen, Note E shall also apply. When classified as a carcinogen or mutagen at least 62 shall apply. This note applies only to certain substances in Annex I.	n 0,1 % w/w benzene s classified as a carcino- n the substance is not the S-phrases (2-)23-24-
Further information	ation	
as delivered. Re datasheet does	provided is based on our current knowledge and experi egarding the product properties, these are not guarantee not free the recipient of the product from his own respon ations concerning this product.	ed. The delivery of this safety
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