SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



Ardrox 996PB			
Version: 3.0	Revision	n Date 10.04.2014	Print Date 10.04.2014
SECTION 1: Identification of	the substan	ce/mixture and of the	company/undertaking
1.1 Product identifier			
Trade name	: Ardrox 99	96PB	
1.2 Relevant identified uses of t	he substance	or mixture and uses ad	vised against
Use of the Sub-	: Red pene	etrative liquid.	
stance/Mixture Recommended restrictions on use	: None kno	own.	
1.3 Details of the supplier of the	safety data s	sheet	
Company	C E	Chemetall Ltd Denbigh Road Bletchley Milton Keynes N	1K1 1PB
Telephone Telefax)1908 649333)1908 373939	
Contact person product safet		40/0\0074050020	
Telephone E-mail address		-49(0)6971652832 nsds.de@chemetall.com	
1.4 Emergency telephone numb	er		
Emergency telephone number	: 01908 649	9333	
SECTION 2: Hazards identific	cation		
2.1 Classification of the substar	nce or mixture)	
Classification (REGULATIO	N (EC) No 12	72/2008)	
Eye irritation, Category 2 Aspiration hazard, Category ²	1	H319: Causes serious e H304: May be fatal if sw ways.	
Classification (67/548/EEC,	1999/45/EC)		
Harmful		R65: Harmful: may caus lowed.	se lung damage if swal-
2.2 Label elements			
Labelling (REGULATION (E	C) No 1272/20	008)	
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			- EN



sion: 3.0	Revision D	ate 10.04.2014	Print Date 10.04.2
Hazard pictograms			
Signal word	: Danger	•	
Hazard statements	: H304	ways.	allowed and enters air-
	H319	Causes serious ey	e irritation.
Precautionary statements	: Prevention: P210	Keep away from h open flames and c	eat, hot surfaces, sparks, other ignition sources. No
	P260	smoking. Do not breathe du pours/ spray.	st/ fume/ gas/ mist/ va-
	P262 P280	Do not get in eyes	, on skin, or on clothing. oves/ protective clothing/
	Response: P301 + P330		/ED: Rinse mouth. Do
	P305 + P357	1 + P338 IF IN EYES: I ter for several min	Rinse cautiously with wa- utes. Remove contact and easy to do. Continue
	P308 P310	IF exposed or con	cerned: POISON CENTER or
	Disposal: P501		ts/ container to an ap- osal plant.
Hazardous components white • Hyo ma	drocarbons, C13-0	on the label: C16, n-alkanes, isoalkane	s, cyclics, < 0,03% aro-
Labelling according to EC	Directives (1999	/45/EC)	
Hazard pictograms			
	Harmful		
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derivs.



Ardrox 996PB Version: 3.0 Revision Date 10.04.2014 Print Date 10.04.2014 R-phrase(s) : R65 Harmful: may cause lung damage if swallowed. S-phrase(s) : S23 Do not breathe gas/fumes/vapour/spray. S24/25 Avoid contact with skin and eyes. S36/37/39 Wear suitable protective clothing, gloves and eve/face protection. S60 This material and its container must be disposed of as hazardous waste. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Hazardous components which must be listed on the label: Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0,03% aromatics 2.3 Other hazards The information required is contained in this Material Safety Data Sheet. **SECTION 3: Composition/information on ingredients** 3.1 Substances not applicable 3.2 Mixtures Chemical nature : Mixture of organic solvents. Hazardous components Classification CAS-No. Classification Concentration **Chemical Name** EC-No. (67/548/EEC) (REGULATION [%] Registration num-(EC) No ber 1272/2008) Hydrocarbons, C13-Xn; R65 Asp. Tox. 1; >= 25 - < 50 C16, n-alkanes, isoal-934-954-2 H304 kanes, cyclics, < 0,03% 01-2119826592-36 aromatics Nota H, Nota N Eve Irrit. 2: >= 10 - < 20 2-(2-112-34-5 Xi: R36 Butoxyethoxy)ethanol; 203-961-6 H319 01-2119475104-44 diethylene glycol monobutyl ether 2-Naphthalenol, 1-[[4-92257-31-3 Repr.Cat.3; R62 Repr. 2; H361f >= 1 - < 2.5 (phenylazo)phenyl]azo] 296-120-8



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For the full text of the H-State	ses mentioned in this Section, see Sectior ments mentioned in this Section, see Sec nentioned in this Section, see Section 16.	ction 16.
ECTION 4: First aid measure		
General advice	: First-aid crew: Ensure self-protection Move out of dangerous area. Take off contaminated clothing and	
If inhaled	: Move to fresh air. If symptoms persist, call a physician	
In case of skin contact	: Wash off with soap and plenty of wa If symptoms persist, call a physician	
In case of eye contact	: Rinse immediately with plenty of wat Consult a physician.	ter, also under the eyelids.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Consult a physician.	
2 Most important symptoms a	nd effects, both acute and delayed	
Symptoms	: No information available.	
Risks	: Causes serious eye irritation. Aspiration hazard. May be fatal if swallowed and enters	s airways.
3 Indication of any immediate	medical attention and special treatmer	nt needed
Treatment	: Treat symptomatically. For specialist advice physicians sho Information Service.	uld contact the Poisons
ECTION 5: Firefighting mea	sures	
1 Extinguishing media		
Suitable extinguishing media	: Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray	
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Unsuitable extinguishing : High volume water jet media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire-fighting : May form toxic gases on heating or in case of fire. Carbon monoxide CO2) 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing a for firefighters Further information : Use water spray to cool unopened containers. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Personal precautions : Wear personal protective equipment. 6.2 Environmental precautions : Do not flush into surface water or sanitary sewer sy Avoid subsoil penetration. 6.3 Methods and materials for containment and cleaning up : Ensure adequate ventilation. Contains gillage, soad, wu with non-combustible abs material, (e.g. sand, earth, diatomaceous earth, vei and transfer to a container for disposal according to national regulations (see section 13). 6.4 Reference to other sections : See chapter 8 and 13 SECTION 7: Handling and storage : Provide sufficient air exchange and/or exhaust in w Have eye wash bottle or eye rinse ready at the wor To avoid risks to man and the environment, comply instructions for use.	
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Have eye wash bottle or eye rinse ready at the wor To avoid risks to man and the environment, comply instructions for use.	
	k place.
Advice on protection against fire and explosion: Keep away from sources of ignition - No smoking. Normal measures for preventive fire protection. Vapours may form explosive mixtures with air.	
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7.2 Conditions for safe storage	, including any incompatibilities	
Requirements for storage areas and containers	 Keep containers tightly closed in a overtilated place. Store in a place accessible by author To maintain product quality, do not sunlight. Protect from frost. 	orized persons only.
Storage temperature	: 5 - 40 °C	
7.3 Specific end use(s)		
Specific use(s)	: Red penetrative liquid.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control pa- rameters	Update	Basis
2-(2- Butoxyeth- oxy)ethanol; diethylene glycol mono- butyl ether	112-34-5	TWA	10 ppm 67.5 mg/m3	2006-02-09	2006/15/EC
Further informa- tion	: Indicative				
	112-34-5	STEL	15 ppm 101.2 mg/m3	2006-02-09	2006/15/EC
Further informa- tion	: Indicative				
	112-34-5	TWA	10 ppm 67.5 mg/m3	2007-08-01	GB EH40
	112-34-5	STEL	15 ppm 101.2 mg/m3	2007-08-01	GB EH40



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DNEL/DMEL 2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl	: End Use: DNEL, Industrial use, Worker Exposure routes: Inhalation	
ether	Potential health effects: Acute local effe Value: 14 ppm	ects
	End Use: DNEL, Industrial use, Worker Exposure routes: Inhalation Potential health effects: Long-term syst Value: 10 ppm	
	End Use: DNEL, Industrial use, Worker Exposure routes: Inhalation Potential health effects: Acute effects, I Value: 10 ppm	
	End Use: DNEL, Industrial use, Worker Exposure routes: Skin contact Potential health effects: Long-term syst Value: 20 mg/kg	
	End Use: DNEL, Workers Exposure routes: Inhalation Potential health effects: Long-term syst Value: 67.5 mg/m3	emic effects
	End Use: DNEL, Workers Exposure routes: Inhalation Potential health effects: Long-term loca Value: 67.5 mg/m3	I effects
PNEC 2-(2-Butoxyethoxy)ethanol;	: Fresh water	
diethylene glycol monobutyl ether	Value: 1 mg/l	
	Marine water Value: 0.4 mg/l	
	Estuary sediment Value: 4 mg/l	
2 Exposure controls		
Engineering measures		
Ensure adequate ventilation, e	specially in confined areas.	
Personal protective equipme	nt	
Respiratory protection	: In case of insufficient ventilation wear s	uitable respiratory
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	equipment. Recommended Filter type: A-P2	
Hand protection	: Nitrile rubber butyl-rubber Protective gloves complying with EN Please observe the instructions rega breakthrough time which are provide gloves. Also take into consideration t tions under which the product is used cuts, abrasion, and the contact time.	rding permeability and d by the supplier of the he specific local condi-
Eye protection	: Eye protection (EN 166) Tightly fitting safety goggles	
Skin and body protection	: Chemical resistant protective clothing 13034 (Type 6)	g according to DIN EN
Hygiene measures	 Take off contaminated clothing and s Keep away from food, drink and anin Wash hands before breaks and imme product. Avoid contact with skin and eyes. Do not breathe vapour. Do not breathe spray. 	nal feedingstuffs.
Environmental exposure c	ontrols	
General advice	: Do not flush into surface water or san Avoid subsoil penetration.	nitary sewer system.
ECTION 9: Physical and ch		
1 Information on basic physic Appearance	: liquid	
Colour	: dark red	
Odour	: hydrocarbon-like	
Flash point	: > 93 °C	
Density	: 0.9 g/cm3 at 20 °C	
Water solubility	: completely miscible	



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Viscosity, kinematic	: 5 mm2/S	
viccosity, killomatio	at 40 °C	
9.2 Other information		
Explosivity	: Vapours may form explosive mixture	e with air.
Directive 1999/13/EC on the limitation of emissions of volatile organic compounds	: Value: 0 g/l	
SECTION 10: Stability and rea	activity	
10.1 Reactivity		
No dangerous reaction known	n under conditions of normal use.	
10.2 Chemical stability		
Stable under normal condition 10.3 Possibility of hazardous rea		
Hazardous reactions	: Vapours may form explosive mixture	e with air.
10.4 Conditions to avoid		
Conditions to avoid	: Keep away from open flames, hot su ignition. Protect from frost, heat and sunlight	
10.5 Incompatible materials		
Materials to avoid	: Strong oxidizing agents	
10.6 Hazardous decomposition	products	
Risk of decomposition.	: aromatic amines	
SECTION 11: Toxicological ir	nformation	
11.1 Information on toxicologica	al effects	
Acute toxicity		
Acute oral toxicity		
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Hydrocarbons, C13-C16, n- alkanes, isoalkanes, cyclics,		
< 0,03% aromatics	Method: OECD Test Guideline	401
2-(2-Butoxyethoxy)ethanol;	: LD50: 3,384 mg/kg	
diethylene glycol monobutyl ether	Species: rat	
Acute dermal toxicity		
Hydrocarbons, C13-C16, n-	: LD50: > 3,160 mg/kg	
alkanes, isoalkanes, cyclics, < 0,03% aromatics	Species: rabbit Method: OECD Test Guideline	402
2-(2-Butoxyethoxy)ethanol;		
diethylene glycol monobutyl ether	Species: rabbit	
Skin corrosion/irritation		
Skin irritation	: May cause skin irritation in susc	ceptible persons.
Serious eye damage/eye iri	ritation	
Eye irritation	: Causes serious eye irritation.	
Respiratory or skin sensiti	sation	
Sensitisation	: No data available	
Aspiration hazard		
-	· May be fatal if swallowed and a	ntore airwaye
Aspiration toxicity	: May be fatal if swallowed and e	mers anways.
ECTION 12: Ecological info	rmation	
.1 Toxicity		
Ecotoxicology studies for the	product are not available.	
Toxicity to fish		
Hydrocarbons, C13-C16, n-	: LC50: > 1,028 mg/l	
alkanes, isoalkanes, cyclics, < 0,03% aromatics	Exposure time: 96 h Species: Fish	
	Method: OECD Test Guideline	203
	NOEC: > 1,000 mg/l	
	Exposure time: 28 d	



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	Species: Oncorhynchus mykiss (rainb	pow trout)
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	: LC50: 2,750 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe Method: DIN 38412	
	LC50: 1,300 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Blueg	gill sunfish)
Toxicity to daphnia and other Hydrocarbons, C13-C16, n- alkanes, isoalkanes, cyclics, < 0,03% aromatics		ethod
	NOEC: > 1,000 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)	1
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	: EC50: 2,850 mg/l Exposure time: 48 h Species: Daphnia	
Toxicity to algae Hydrocarbons, C13-C16, n- alkanes, isoalkanes, cyclics, < 0,03% aromatics	: ErC50: > 10,000 mg/l Exposure time: 72 h Species: Skeletonema costatum	
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	: NOEC: > 100 mg/l Exposure time: 96 h Species: Desmodesmus subspicatus Method: OECD Test Guideline 201	(green algae)
12.2 Persistence and degradabil	ity	
Biodegradability	: No data available	
12.3 Bioaccumulative potential		
Bioaccumulation	: Bioaccumulation is unlikely.	
12.4 Mobility in soil		
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Distribution among environ- mental compartments 12.5 Results of PBT and vPvB a		
	n substances considered to be persist t contain substances considered to be	
12.6 Other adverse effects		
Additional ecological information	 water endangering Do not flush into surface water of Avoid subsoil penetration. 	or sanitary sewer system.
SECTION 13: Disposal cons	derations	
13.1 Waste treatment methods		
Product	: Dispose of in accordance with lo	ocal regulations.
Contaminated packaging	: Dispose of as unused product.	
Waste Code	: Waste codes should be assigned discussion with the waste disposed	
SECTION 14: Transport info ADR Not dangerous goods	mation	
IATA Not dangerous goods		
IMDG Not dangerous goods		
RID Not dangerous goods		
SECTION 15: Regulatory info	ormation mental regulations/legislation speci	ific for the substance or mixture



REACH - Candidate List of : 1 Substances of Very High Concern for Authorisation (Article 59). : Water contaminating class : W (Germany) : Other regulations : 1 : SECTION 16: Other information Full text of R-phrases referred to R62 Possible ri R65 Harmful: m Full text of H-Statements referred H304 May be fat H319 Causes se H361f Suspected Full text of Notas referred to und Nota H The classi data which stance. Th nex VI of t Nota N The classi tory is kno produced i		
Substances of Very High Concern for Authorisation (Article 59). Concern for Authorisation (Article 59). Water contaminating class (Germany) Y Other regulations Image: Trice of the set of the set of the set of the necessary safety - related inforting to The necessary safety - related inforting to The necessary safety - related inforting to R62 SECTION 16: Other information Full text of R-phrases referred to R62 R36 Irritating to R65 Harmful: m Full text of H-Statements referred H304 May be fat May be fat May be fat H319 H361f Suspected Full text of Notas referred to und Nota H The classif dangerous with the ca and downs investigatio data which stance. Th nex VI of t Nota N The classif tory is kno produced it	Revision Date 10.04.2014	Print Date 10.04.2014
(Germany) N Other regulations : 1 (Germany) Other regulations : 1 (Germany) Other regulations : 1 (Germany) Other regulations : 1 F ISECTION 16: Other information Full text of R-phrases referred to R36 Irritating to R65 Harmful: m Full text of H-Statements referred H304 May be fat H319 Causes set H361f Suspected Full text of Notas referred to under Nota H The classift dangerous with the cat and downs investigati data which stance. The nex VI of t Nota N The classift tory is kno produced it	This product does not contain substances of very high con- cern (Regulation (EC) No 1907/2006 (REACH), Article 57).	
IS.2 Chemical Safety Assessment For a mixture it is not mandatory to The necessary safety - related infor SECTION 16: Other information Full text of R-phrases referred to R36 Irritating to R62 Possible ri R65 Harmful: n Full text of H-Statements referred H304 May be fat H319 Causes se H361f Suspected Full text of Notas referred to und Nota H The classi dangerous with the ca and downs investigati data which stance. Th nex VI of t Nota N The classi tory is kno produced i	VGK 2 water endangering WVWS A4	
For a mixture it is not mandatory to The necessary safety - related infor SECTION 16: Other information Full text of R-phrases referred to R36 Irritating to R62 Possible ri R65 Harmful: n Full text of H-Statements referred H304 May be fat H319 Causes se H361f Suspected Full text of Notas referred to und Nota H The classi dangerous with the ca and downs investigati data which stance. Th nex VI of t Nota N The classi tory is kno produced i	The product is classified and labelle lirectives or respective national laws Regional or national implementation ment all hazard classes and categor	s. s of GHS may not imple-
Full text of R-phrases referred toR36Irritating toR62Possible riR65Harmful: mFull text of H-Statements referredH304May be fatH319Causes seH361fSuspectedFull text of Notas referred to underNota HThe classifdangerouswith the caand downsinvestigatidata whichstance. Thnex VI of tNota NNota NThe classiftory is knoproduced it		
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Nota H The classii dangerous with the ca and downs investigatio data which stance. Th nex VI of t Nota N The classii tory is kno produced i	Suspected of damaging fertility.	
dangerous with the ca and downs investigati data which stance. Th nex VI of t Nota N The classi tory is kno produced i	er section 3	
tory is kno produced i	The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown. The manufacturers, importers and downstream users of this substance shall be obliged to carry out an investigation to make themselves aware of the relevant and accessible data which exists for all other properties to classify and label the substance. The final label shall follow the requirements of section 7 of Annex VI of this Directive.	
	ication as a carcinogen need not a wn and it can be shown that the sul s not a carcinogen. This note applie substances in Annex I.	ostance from which it is
	12/11	
	13 / 14	- EN



Ardrox 996PB

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Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.