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



Ardrox 9PR5 Aeros	ol		
Version: 3.0	Revisior	n Date 09.04.2014	Print Date 22.01.2015
SECTION 1: Identification	of the substan	ce/mixture and of the	company/undertaking
1.1 Product identifier			
Trade name	: Ardrox 9	PR5 Aerosol	
1.2 Relevant identified uses	of the substance	or mixture and uses a	dvised against
Use of the Sub-	: Cleaning	agent	
stance/Mixture Recommended restrictio on use	ns : None kno	own.	
1.3 Details of the supplier o	f the safety data s	sheet	
Company	E	Chemetall Ltd Denbigh Road Bletchley Milton Keynes	MK1 1PB
Telephone Telefax)1908 649333)1908 373939	
Contact person product s Telephone E-mail address	: +	-49(0)6971652832 nsds.de@chemetall.com	
1.4 Emergency telephone n	umber		
Emergency telephone number	: 01908 649	9333	
SECTION 2: Hazards ider 2.1 Classification of the sub		•	
Classification (REGUL	ATION (EC) No 12	72/2008)	
Aerosols, Category 1		H222: Extremely flamm	
Skin irritation, Category 2 Specific target organ tox posure, Category 3, Cen system	icity - single ex-	H229: Pressurized con H315: Causes skin irrit H336: May cause drow	
Chronic aquatic toxicity,		H411: Toxic to aquatic	life with long lasting effects.
Classification (67/548/E	EC, 1999/45/EC)		
Extremely flammable Irritant		R12: Extremely flamma R38: Irritating to skin.	adie.
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Dangerous for the environm	nent	lonç mer	: Vapours may cause dro	he aquatic environ-
2 Label elements				
Labelling (REGULATION (I	EC) N	o 1272/2008)		
Hazard pictograms	:		!	
Signal word	:	Danger		
Hazard statements		H222 H229 H315 H336 H411	Extremely flammable Pressurized container Causes skin irritation. May cause drowsines Toxic to aquatic life w	: May burst if heated.
Precautionary statements		Prevention: P210	Keep away from heat open flames and othe smoking.	, hot surfaces, sparks, r ignition sources. No
		P211	Do not spray on an op ignition source.	
		P243	Take precautionary m discharge.	easures against static
		P251 P260	Do not pierce or burn, Do not breathe dust/ f pours/ spray.	
		P262 P273 P280	Do not get in eyes, or Avoid release to the e	environment.
		F20U	Wear protective glove eye protection/ face p	
		Response: P303 + P361 +	P353 IF ON SKIN (or h ately all contaminated with water/shower.	nair): Take off immedi- I clothing. Rinse skin
		P304 + P341	IF INHALED: If breath	ning is difficult, remove keep at rest in a posi- reathing.
		P308 + P313	IF exposed or concern vice/ attention.	
		Storage: P410 + P412	Protect from sunlight.	



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	Disposal: P501	·	eding 50 °C/ 122 °F. s/ container to an ap- osal plant.
Hazardous components which • Hydr		he label: anes, isoalkanes, cycli	ics
Labelling according to EC I	Directives (1999/45/	/EC)	
Hazard pictograms			
	Extremely Irrit flammable	ant Dangerous for the envi- ronment	
R-phrase(s)	: R12 R38 R51/53		ble. rganisms, may cause effects in the aquatic
	R67		se drowsiness and dizzi-
S-phrase(s)	: S16 S23 S24/25 S36/37/39 S51 S61	smoking. Do not breathe ga Avoid contact with Wear suitable pro- and eye/face prote Use only in well-ve Avoid release to th	tective clothing, gloves ection.
Special labelling of certain mixtures	pose to temper Do not pierce o Do not spray o Keep away fro	ontainer. Protect from s ratures exceeding 50 ° or burn, even after use. n a naked flame or any m sources of ignition - e reach of children.	C. y incandescent material.
Detergents Regulation EC 907/2006	: Aliphatic hydro	carbons 30 % and mo	re
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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

Chemical Name	CAS-No. EC-No. Registration num- ber	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	927-510-4 01-2119475515-33	F; R11 Xn; R65 Xi; R38 R67 N; R51/53	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 50 - < 65
Propane	74-98-6 200-827-9 01-2119486944-21	F+; R12	Flam. Gas 1; H220 Press. Gas	>= 10 - < 25
Cyclohexane	110-82-7 203-806-2 01-2119463273-41	F; R11 Xn; R65 Xi; R38 R67	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315	>= 1 - < 2.5
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N; R50-R53		
	STOT SE 3; H336	
	Aquatic Acute 1; H400	
	Aquatic Chronic 1; H410	

106-97-8 203-448-7	F+; R12	Flam. Gas 1; H220	>= 10 - < 25
	Nota C	Press. Gas	
	106-97-8	106-97-8 F+; R12 203-448-7 F+; R12	106-97-8 F+; R12 Flam. Gas 1; 203-448-7 H220

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16. For the full text of the Notas mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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	Symptoms	: No information available.	
		and effects, both acute and delayed	
	If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Consult a physician.	
	In case of eye contact	: Rinse immediately with plenty of water, also under the eyelic Consult a physician.	ls.
	In case of skin contact	: Wash off with soap and plenty of water. If symptoms persist, call a physician.	
	If inhaled	: Move to fresh air. If symptoms persist, call a physician.	
	General advice	: First-aid crew: Ensure self-protection. Move out of dangerous area. Take off contaminated clothing and shoes immediately.	



Treatment : Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service. SECTION 5: Firefighting measures 5.1 Extinguishing media : Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray Unsuitable extinguishing media : Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray Unsuitable extinguishing media : May form toxic gases on heating or in case of fire. Carbon monoxide Carbon monoxide Carbon dioxide (CO2) 5.3 Advice for firefighters : May form toxic gases on heating or in case of fire. Carbon monoxide Carbon dioxide (CO2) 5.3 Advice for firefighters : In the event of fire, wear self-contained breathing apparatus. for firefighters Special protective equipment for firefighters : Use water spray to cool unopened containers. Risk of bursting. SECTION 6: Accidental release measures : 1 Personal precautions, protective equipment and emergency procedures Personal precautions : Wear personal protective equipment. 5.2 Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.	Version: 3.0	Revision Date 09.04.2014	Print Date 22.01.	201
For specialist advice physicians should contact the Poisons Information Service. SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable 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 Carbon dioxide (CO2) 5.3 Advice for firefighters Special protective equipment In the event of fire, wear self-contained breathing apparatus. for firefighters Further information Use water spray to cool unopened containers. Risk of bursting. 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 system. Avoid subsoil penetration. 6.3 Methods and materials for containment and cleaning up Methods for cleaning up Methods for cleaning up Ensure adequate ventilation.	Risks			
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Dry powder Alcohol-resistant foam Water spray Unsuitable extinguishing : Juscitable extinguishing : High volume water jet media Specific 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 Carbon dioxide (CO2) 5.3 Advice for firefighters : In the event of fire, wear self-contained breathing apparatus. for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters Further information : Use water spray to cool unopened containers. Risk of bursting. 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 system. Avoid subsoil penetration. 6.3 Methods and materials for containment and cleaning up : Ensure adequate ventilation. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)	Treatment	For specialist advice physicians should c	contact the Poisons	
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 6.2 Environmental precautions Environmental precautions Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. 6.3 Methods and materials for containment and cleaning up Methods for cleaning up Ensure adequate ventilation. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) 				
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Methods for cleaning up : Ensure adequate ventilation. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)	•		y sewer system.	
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)	6.3 Methods and materials for co	ntainment and cleaning up		
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		and transfer to a container for dispos national regulations (see section 13).	
6.4 Reference to other sections			
See chapter 8 and 13			
SECTION 7: Handling and sto	oraç	le	
7.1 Precautions for safe handlin	g		
Advice on safe handling	:	Provide sufficient air exchange and/o Floor level ventilation required. Have eye wash bottle or eye rinse re To avoid risks to man and the enviro instructions for use.	ady at the work place.
Advice on protection against fire and explosion	:	Keep away from sources of ignition - Take precautionary measures agains Vapours may form explosive mixture Normal measures for preventive fire	st static discharges. s with air.
7.2 Conditions for safe storage,	inc	uding any incompatibilities	
Requirements for storage areas and containers	:	Keep containers tightly closed in a driventilated place. Store in a place accessible by author To maintain product quality, do not s sunlight.	rized persons only.
Storage temperature	:	< 40 °C	
7.3 Specific end use(s)			
Specific use(s)	:	Cleaning agent	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control pa- rameters	Update	Basis	
Butane	106-97-8	TWA	600 ppm 1,450 mg/m3	2007-08-01	GB EH40	
			•			
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Further informa- tion	:	include tho cause herit process list	se which: - a able genetic ted in Sched	are assigned the risk p damage'; 'R49: May c ule 1 of COSHH.	ohrases 'R45: May cause	on' or - a substance or
	1	06-97-8	STEL	750 ppm 1,810 mg/m3	2007-08-01	GB EH40
Further informa- tion	:	include tho cause herit process list	se which: - a able genetic ted in Sched	are assigned the risk p damage'; 'R49: May c ule 1 of COSHH.	ohrases 'R45: May cause	on' or - a substance or
Cyclohexane	1	10-82-7	TWA	200 ppm 700 mg/m3	2006-02-09	2006/15/EC
Further informa- tion	:	Indicative				
	1	10-82-7	TWA	100 ppm 350 mg/m3	2005-04-06	GB EH40
	1	10-82-7	STEL	300 ppm 1,050 mg/m3	2005-04-06	GB EH40

DNEL/DMEL Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	: End Use: DNEL, Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 2085 mg/m3	
	End Use: DNEL, Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 300 mg/kg bw/d	
Cyclohexane	 End Use: DNEL, Industrial use, Workers Exposure routes: Inhalation Potential health effects: Short-term exposure, Systemic effects Value: 700 mg/m3 	
	End Use: DNEL, Industrial use, Workers	
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	Exposure routes: Inhalation Potential health effects: Short-term expo Value: 700 mg/m3	osure, Local effects
	End Use: DNEL, Industrial use, Workers Exposure routes: Inhalation Potential health effects: Long-term syste Value: 700 mg/m3	
	End Use: DNEL, Industrial use, Workers Exposure routes: Inhalation Potential health effects: Long-term local Value: 700 mg/m3	
	End Use: DNEL, Industrial use, Workers Exposure routes: Skin contact Potential health effects: Long-term syste Value: 2016 mg/kg	
PNEC Cyclohexane	: Water Value: 0.207 mg/l	
	Sediment Value: 3.627 mg/kg	
	Soil Value: 2.99 mg/kg	
	Behaviour in waste water treatment plar Value: 3.24 mg/l	nts
3.2 Exposure controls		
Engineering measures		
	n, especially in confined areas. d be protected to the appropriate standard. quipment.	
Personal protective equip	oment	
Respiratory protection	 In case of insufficient ventilation wear se equipment. Recommended Filter type: AX-P2 	uitable respiratory
Hand protection	: Nitrile rubber Neoprene gloves butyl-rubber	
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	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- d, such as the danger of
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 shoes immediately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and immediately after handling the product. Avoid contact with skin and eyes. Do not breathe vapour. Do not breathe spray. 	
Environmental exposure co	ontrols	
General advice	: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.	
CTION 9: Physical and ch	emical properties	
Information on basic physic	al and chemical properties	
Information on basic physic Appearance	al and chemical properties : aerosol	
Appearance	: aerosol	
Appearance Colour	: aerosol : colourless	
Appearance Colour Odour	: aerosol : colourless : hydrocarbon-like : -4 °C	
Appearance Colour Odour Flash point	 : aerosol : colourless : hydrocarbon-like : -4 °C Active substance -60 °C Butane/Propane 	
Appearance Colour Odour Flash point Ignition temperature	 : aerosol : colourless : hydrocarbon-like : -4 °C : Active substance -60 °C Butane/Propane : > 210 °C : > 90 °C 	
Appearance Colour Odour Flash point Ignition temperature Boiling point/boiling range	 aerosol colourless hydrocarbon-like -4 °C Active substance -60 °C Butane/Propane > 210 °C > 90 °C Active substance : 0.68 g/cm3 	- E



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	Active substance	
9.2 Other information		
Explosivity	: Vapours may form explosive mixture	with air.
Directive 1999/13/EC on the limitation of emissions of volatile organic compounds	: Value: 100 %	
SECTION 10: Stability and rea	activity	
10.1 Reactivity		
No dangerous reaction known	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 Pressurized container: May burst if h	
10.4 Conditions to avoid		
Conditions to avoid	: Keep away from open flames, hot su ignition. Strong sunlight for prolonged periods	
10.5 Incompatible materials		
Materials to avoid	: Alkali metals Strong oxidizing agents Acids	
10.6 Hazardous decomposition p	products	
Risk of decomposition.	: No decomposition if stored and appli	ed as directed.
SECTION 11: Toxicological in 11.1 Information on toxicologica Acute toxicity		
Acute oral toxicity		
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Ardrox 9PR5 Aerosol Version: 3.0 Revision Date 09.04.2014 Print Date 22.01.2015 Hydrocarbons, C7, n-: LD50: > 5,840 mg/kg alkanes, isoalkanes, cyclics Species: rat Method: OECD Test Guideline 401 Cyclohexane : LD50: > 5,000 mg/kg Species: rat Acute inhalation toxicity Hydrocarbons, C7, n-: LC50: > 23.3 mg/l alkanes, isoalkanes, cyclics Exposure time: 4 h Species: rat Method: OECD Test Guideline 403 Cyclohexane : LC50: 14 mg/l Exposure time: 4 h Species: rat Acute dermal toxicity Hydrocarbons, C7, n-: LD50: > 2,920 mg/kg alkanes, isoalkanes, cyclics Species: rat Method: OECD Test Guideline 402 Cyclohexane : LD50: > 2,000 mg/kg Species: rabbit Skin corrosion/irritation Skin irritation : Causes skin irritation. Serious eye damage/eye irritation Eye irritation : May cause eye irritation with susceptible persons. Respiratory or skin sensitisation Sensitisation : No data available Germ cell mutagenicity Cyclohexane : Ames test In vitro tests did not show mutagenic effects Aspiration hazard 12/17 - EN



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Aspiration toxicity Cyclohexane	: The substance or mixture is known to toxicity hazards or has to be regarded aspiration toxicity hazard.	
Neurological effects	: May cause drowsiness or dizziness.	
SECTION 12: Ecological infor	mation	
2.1 Toxicity		
Ecotoxicology studies for the	product are not available.	
Toxicity to fish Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	: > 13.4 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainb	pow trout)
Cyclohexane	: LC50: 4.53 mg/l Exposure time: 48 h Species: Fish	
Toxicity to daphnia and other Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	aquatic invertebrates : 3 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea))
Cyclohexane	: EC50: 0.9 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea))
Toxicity to algae Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	: 10 - 30 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapi	tata
Cyclohexane	: IC50: > 4 mg/l Exposure time: 72 h Species: Selenastrum capricornutum	(green algae)
Toxicity to bacteria Cyclohexane	: EC50: 29 mg/l Exposure time: 24 h Species: Photobacterium phosphoreu	ım
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12.2 Persistence and degradabili	ty	
Biodegradability	: No data available	
12.3 Bioaccumulative potential		
Bioaccumulation	: Bioaccumulation is unlikely.	
12.4 Mobility in soil	. Bloaddamalation is aninkely.	
Distribution among environ- mental compartments 12.5 Results of PBT and vPvB as		
	substances considered to be persistent, b contain substances considered to be very	
12.6 Other adverse effects		
Additional ecological informa- tion	: water endangering Toxic to aquatic life with long lasting Do not flush into surface water or sar Do not allow material to contaminate Even leakage of small amounts in the drinking water.	nitary sewer system. ground water system.
SECTION 13: Disposal consid	erations	
13.1 Waste treatment methods		
Product	: Dispose of in accordance with local r	egulations.
Contaminated packaging	: Dispose of as unused product.	
Waste Code	: Waste codes should be assigned by discussion with the waste disposal and	
SECTION 14: Transport inform	nation	
ADR UN number UN proper shipping name Transport hazard class(es)	: 1950 : AEROSOLS : 2	
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Classification Code Limited Quantity (LQ) Inner	: 5F : 1.00 l	
Packaging	. 1.00 L	
Maximum quantity	: 30.00 KG	
Labels	: 2.1	
Tunnel restriction code Environmentally hazardous		
Environmentally hazardous	. yes	
ΙΑΤΑ		
UN number	: 1950	
Description of the goods Class	: Aerosols, flammable : 2.1	
Labels	: 2.1	
IATA_C Packing instruction (cargo	: 203	
aircraft)	. 203	
	: Y203	
Packing instruction (LQ) Maximum quantity		
Environmentally hazardous	: no	
IATA_P		
Packing instruction (passen-	: 203	
ger aircraft) Packing instruction (LQ)	· Y203	
Maximum quantity		
Environmentally hazardous		
IMDG		
UN number	: 1950	
Description of the goods Class	: AEROSOLS Heptane : 2.1	
Labels	: 2.1	
EmS Number 1	: F-D	
EmS Number 2	: S-U	
Marine pollutant	: yes	
	Shaded from sources of heat. "IMDG-Code segregation group no	t applicable".
	Shaded from sources of heat.	
	"IMDG-Code segregation group no	t applicable".
RID		
UN number	: 1950	
Description of the goods	: AEROSOLS	
Transport hazard class(es) Classification Code	: 2 : 5F	
	15 / 17	
		- E



ersion: 3.0	Revision Date 09.04.2014	Print Date 22.01.201
Hazard Identification Number		
Labels Limited Quantity (LQ) Inner Packaging	: 2.1 : 1.00 L	
Maximum quantity	: 30.00 KG	
Environmentally hazardous	: yes	
ECTION 15: Regulatory info	rmation nental regulations/legislation specific fo	or the substance or mixture
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substa cern (Regulation (EC) No 1907/2006	nces of very high con-
Water contaminating class (Germany)	: WGK 2 water endangering VWVWS A4	
Other regulations	: The product is classified and labelled directives or respective national laws Regional or national implementations ment all hazard classes and categori	s of GHS may not imple-
	: Classification / Labeling according to	Directive 2008/47/EU.
	nt ory to include an exposure scenario in the d information is stated in the first 16 sectio	
ECTION 16: Other information	-	
r un text or reprinases referr	ed to under sections 2 and 3	



Ardrox 9PR5 Aerosol

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R11	Highly flammable.	
R12	Extremely flammable.	
R38	Irritating to skin.	
R50	Very toxic to aquatic organisms.	
R51/53	Toxic to aquatic organisms, may cause long-terr aquatic environment.	
R53	May cause long-term adverse effects in the aqua	atic environment.
R65	Harmful: may cause lung damage if swallowed.	
R67	Vapours may cause drowsiness and dizziness.	
Full text of H-St	tatements referred to under sections 2 and 3.	
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H229	Pressurized container: May burst if heated.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H336	May cause drowsiness or dizziness.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
	as referred to under section 3	
Nota C	Some organic substances may be marketed eith form or as a mixture of several isomers. In Anne tion of the following type is sometimes used: "xy manufacturer or any other person who markets s state on the label whether the substance is a spe mixture of isomers (b). Example: (a) 2,4-dimethy (mixture of isomers).	x I, a general designa- lenol". In this case the such a substance must ecific isomer (a) or a
Further informa	ation	
as delivered. Re datasheet does	provided is based on our current knowledge and experien garding the product properties, these are not guaranteed not free the recipient of the product from his own respons tions concerning this product.	. The delivery of this safety