

ARDROX® AV 25 (R134a)Aerosol Spraydose 10 x 400 ML

Version: 2.0	Revisior	n Date 03.06.2014	Print Date 19.11	.2014
SECTION 1: Identification of	the substan	ce/mixture and of the o	company/undertaking	
1.1 Product identifier				
Trade name	: ARDRO	X® AV 25 (R134a)Aerosol	Spraydose 10 x 400 ML	
1.2 Relevant identified uses of the	he substance	or mixture and uses adv	vised against	
Use of the Sub-	: Corrosio	n inhibitor	-	
stance/Mixture Recommended restrictions on use	: None kn	own.		
1.3 Details of the supplier of the	safety data s	sheet		
Company Lead Organisation	-	Chemetall GmbH Frakehner Strasse 3 60487 Frankfurt a.M. Surface Treatment		
Telephone Telefax	: -	⊧49(0)69 7165-0 ⊧49(0)69 7165-3567		
Contact person product safet Telephone E-mail address	: -	⊦49(0)6971652832 nsds.de@chemetall.com		
1.4 Emergency telephone numb	er			
Emergency telephone number	: +49(0)532	26 51-0		
SECTION 2: Hazards identific		9		
Classification (REGULATIO	N (EC) No 12	72/2008)		
Aerosols, Category 1		H223: Flammable aeros	-	
Specific target organ toxicity - posure, Category 3, Central r system		H229: Pressurized conta H336: May cause drows	ainer: May burst if heated. siness or dizziness.	
Classification (67/548/EEC,	1999/45/EC)			
Flammable		R10: Flammable. R66: Repeated exposur or cracking.	e may cause skin dryness	
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N (EC) No 1272/2008)	
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: Danger	•	
: H223 H229 H336	Flammable aerosol. Pressurized container: May burst if heate May cause drowsiness or dizziness.	d.
: EUH066	Repeated exposure may cause skin dry- ness or cracking.	
B : Prevention: P210	open flames and other ignition sources.	
P211	Do not spray on an open flame or other	
P251 P260	Do not pierce or burn, even after use. Do not breathe dust/ fume/ gas/ mist/ va-	
P262 P271	Do not get in eyes, on skin, or on clothing Use only outdoors or in a well-ventilated].
P280	Wear protective gloves/ protective clothin	ıg/
Response: P303 + P361	+ P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing	
		-k
Storage: P410 + P412	5 1	
Disposal: P501	Dispose of contents/ container to an approved waste disposal plant.	
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	R n N (EC) No 1272/2008 : Danger : Danger : H223 H229 H336 : EUH066 : EUH066 : EUH066 : Prevention: P210 P211 P251 P260 P211 P250 P262 P271 P260 P262 P271 P260 P262 P271 P260 P262 P271 P280 Response: P303 + P313 Storage: P410 + P412 Disposal: P501	 H223 Flammable aerosol. H229 Pressurized container: May burst if heater H336 May cause drowsiness or dizziness. EUH066 Repeated exposure may cause skin dryness or cracking. Prevention: P210 Keep away from heat, hot surfaces, sparl open flames and other ignition sources. Namoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P260 Do not get in eyes, on skin, or on clothing P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothin 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. P308 + P313 IF exposed or concerned: Get medical act vice/ attention. Storage: P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Disposal: P501 Dispose of contents/ container to an ap-



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Hazardous components which • Hydro Labelling according to EC D	ocarbons, C9-C11,	n-alkanes, isoalkanes	s, cyclics, < 2% aromatics
Hazard pictograms	: Flammable		
R-phrase(s)	: R10 R66 R67	ness or cracking.	ure may cause skin dry- use drowsiness and dizzi-
S-phrase(s)	: S16 S23 S24/25 S36/37/39 S51 S60	smoking. Do not breathe sy Avoid contact wit Wear suitable pro and eye/face pro Use only in well-v	h skin and eyes. otective clothing, gloves tection. ventilated areas. I its container must be
Special labelling of certain mixtures	pose to tempe Do not pierce o Do not spray o Keep away fro	ratures exceeding 50 for burn, even after use	e. ly incandescent material.
2.3 Other hazards The information required is co	ntained in this Mate	erial Safety Data Shee	t.
SECTION 3: Composition/info 3.1 Substances not applicable 3.2 Mixtures	ormation on ingre	edients	
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Hazardous components

Chemical Name	CAS-No. EC-No. Registration num- ber	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5 01-2119463258-33	R10 Xn; R65 R66 R67	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336	>= 25 - < 50
		Nota H, Nota P		
Naphtha (petroleum), hydrotreated heavy (benzene < 0,1 %)	64742-48-9 265-150-3 01-2119463258-33	R10 Xn; R65 R66 Nota H, Nota P	Asp. Tox. 1; H304 Flam. Liq. 3; H226	>= 1 - < 2.5

Substances with a work	place exposure limit :			
1,1,1,2- Tetrafluoroethane	811-97-2 212-377-0		Not a hazard- ous substance or mixture ac- cording to Reg- ulation (EC) No. 1272/2008.	>= 25 - < 50
1-Methoxy-2-propanol	107-98-2 203-539-1 01-2119457435-35	R10 R67	Flam. Liq. 3; H226 STOT SE 3; H336	>= 2.5 - < 10

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.



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SECTION 4: First aid measure	S
4.1 Description of first aid measu	ires
General advice	 First-aid crew: Ensure self-protection. Move out of dangerous area. Take off contaminated clothing and shoes immediately.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.
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, also under the eyelids. Consult a physician.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Consult a physician.
4.2 Most important symptoms an	d effects, both acute and delayed
Symptoms	: No information available.
Risks	: May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.
4.3 Indication of any immediate n	nedical attention and special treatment needed
Treatment	: Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.
SECTION 5: Firefighting meas	sures
5.1 Extinguishing media	
Suitable extinguishing media	: Carbon dioxide (CO2) Dry powder Alcohol-resistant foam Water spray
Unsuitable extinguishing media	: High volume water jet
5.2 Special hazards arising from	
Specific hazards during fire-	: May form toxic gases on heating or in case of fire.
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fighting Carbon monoxide Carbon dioxide (CO2) 5.3 Advice for firefighters Special protective equipment for firefighters 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 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 : Ensure adequate ventilation. Contain spillage, seak up with non-combustible absorbent material, (eg. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). 6.4 Reference to other sections See chapter 8 and 13 : Provide sufficient air exchange and/or exhaust in work rooms. Floor level ventilation required. Have eye was bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.4 Conditions for safe storage, including any incompatibilities <th>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 : Ensure adequate ventilation. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / 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 work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection.</th> <th>Version: 2.0</th> <th></th> <th>Revision Date 03.06.2014</th> <th>Print Date 19.11.20</th>	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 : Ensure adequate ventilation. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / 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 work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection.	Version: 2.0		Revision Date 03.06.2014	Print Date 19.11.20
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See chapter 8 and 13 SECTION 7: Handling and storage 7.1 Precautions for safe handling Advice on safe handling Provide sufficient air exchange and/or exhaust in work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities	See chapter 8 and 13 SECTION 7: Handling and storage 7.1 Precautions for safe handling Advice on safe handling Image: Provide sufficient air exchange and/or exhaust in work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion Image: Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities 6/16	Methods for cleaning up	:	Contain spillage, soak up with no material, (e.g. sand, earth, diaton and transfer to a container for dis	maceous earth, vermiculite) sposal according to local /
SECTION 7: Handling and storage 7.1 Precautions for safe handling Advice on safe handling Advice on safe handling Section advice on protection advice Advice on protection advice Section advice on protection advice on protection advice on protection advice on protection advice on pro	SECTION 7: Handling and storage 7.1 Precautions for safe handling Advice on safe handling Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities 6 / 16	6.4 Reference to other sections			
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Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities	Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Floor level ventilation required. Have eye wash bottle or eye rinse ready at the work place. To avoid risks to man and the environment, comply with the instructions for use. Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities 6 / 16	SECTION 7: Handling and sto	orag	e	
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fire and explosion Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities	fire and explosion Take precautionary measures against static discharges. Vapours may form explosive mixtures with air. Normal measures for preventive fire protection. 7.2 Conditions for safe storage, including any incompatibilities 6 / 16	Advice on safe handling	:	Floor level ventilation required. Have eye wash bottle or eye rins To avoid risks to man and the er	se ready at the work place.
	6 / 16		:	Take precautionary measures ag Vapours may form explosive mix	gainst static discharges. tures with air.
	6 / 16	7.2 Conditions for safe storage,	incl	uding any incompatibilities	
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Requirements for storage areas and containers	 Keep containers tightly closed in a contract ventilated place. Store in a place accessible by author To maintain product quality, do not slight. 	prized persons only.
Storage temperature	: < 50 °C	
7.3 Specific end use(s) Specific use(s)	: Corrosion inhibitor	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control pa- rameters	Update	Basis
1,1,1,2- Tetrafluoro- ethane	811-97-2	TWA	1,000 ppm 4,240 mg/m3	2005-04-06	GB EH40
Further infor- mation	: 2: Where I sure shoul		hort-term exposure lir	l nit is listed, a figure thr	ee times the long-term expo-
1-Methoxy-2- propanol	107-98-2	TWA	100 ppm 375 mg/m3	2000-06-16	2000/39/EC
Further infor- mation	: skin: Ident Indicative	l ifies the pos	l sibility of significant u	I ptake through the skin	
	107-98-2	STEL	150 ppm 568 mg/m3	2000-06-16	2000/39/EC
Further infor- mation	: skin: Ident Indicative	lifies the pos	sibility of significant u	ptake through the skin	
	107-98-2	TWA	100 ppm 375 mg/m3	2005-04-06	GB EH40
				1	
Further infor- mation			hrough skin. The ass absorption will lead to		hose for which there are



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	560 mg/m3 absorbed through skin. The assigned substances a nat dermal absorption will lead to systemic toxicity.	are those for which there are
DNEL/DMEL Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	 End Use: DNEL, Industrial use, Wo Exposure routes: Skin contact Potential health effects: Long-term Value: 208 mg/kg bw/d End Use: DNEL, Industrial use, Wo Exposure routes: Inhalation Potential health effects: Long-term Value: 871 mg/m3 	systemic effects rkers
1,1,1,2-Tetrafluoroethane	: End Use: DNEL, Workers, Industria Exposure routes: Inhalation Potential health effects: Long-term Value: 13936 mg/m3	
1-Methoxy-2-propanol	: End Use: DNEL, Industrial use, Wo Exposure routes: Inhalation Potential health effects: Acute local Value: 553.5 mg/m3	
	End Use: DNEL, Industrial use, Wo Exposure routes: Inhalation Potential health effects: Long-term Value: 369 mg/m3	
	End Use: DNEL, Industrial use, Wo Exposure routes: Skin contact Potential health effects: Long-term Value: 50.6 mg/kg	
PNEC 1-Methoxy-2-propanol	: Fresh water Value: 10 mg/l Behaviour in waste water treatment	: plants
	Value: 100 mg/l Fresh water sediment 8 / 16	
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	Value: 41.6 mg/kg	
	Marine sediment Value: 4.17 mg/kg	
	Soil Value: 2.47 mg/kg	
2 Exposure controls		
Engineering measures		
	i, especially in confined areas. be protected to the appropriate standard. juipment.	
Personal protective equip	ment	
Respiratory protection	 In case of insufficient ventilation wear equipment. Recommended Filter type: AX-P2 	r suitable respiratory
Hand protection	 Nitrile rubber Neoprene gloves butyl-rubber Protective gloves complying with EN Please observe the instructions regar breakthrough time which are provided gloves. Also take into consideration th 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)	according to DIN EN
Hygiene measures	 Take off contaminated clothing and s Keep away from food, drink and anim 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 of	controls	
General advice	: Do not flush into surface water or san Avoid subsoil penetration.	itary sewer system.
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SECTION 9: Physical and che	emical properties
9.1 Information on basic physica	al and chemical properties
Appearance	: aerosol
Colour	: light brown
Odour	: solvent-like
Flash point	: 31 °C Active substance
Ignition temperature	: > 200 °C
9.2 Other information	
Explosivity	: Vapours may form explosive mixture with air.
Directive 1999/13/EC on the limitation of emissions of vol- atile organic compounds	: Value: 36.9 %
SECTION 10: Stability and rea	activity
SECTION 10: Stability and rea	
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known	activity
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known 10.2 Chemical stability	n under conditions of normal use.
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known	n under conditions of normal use.
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known 10.2 Chemical stability Stable under normal condition	n under conditions of normal use.
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known 10.2 Chemical stability Stable under normal condition 10.3 Possibility of hazardous rea	n under conditions of normal use. ns. actions : Vapours may form explosive mixture with air.
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known 10.2 Chemical stability Stable under normal condition 10.3 Possibility of hazardous rea Hazardous reactions	n under conditions of normal use. ns. actions : Vapours may form explosive mixture with air. Pressurized container: May burst if heated.
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known 10.2 Chemical stability Stable under normal condition 10.3 Possibility of hazardous rea Hazardous reactions	n under conditions of normal use. ns. actions : Vapours may form explosive mixture with air. Pressurized container: May burst if heated. : Keep away from open flames, hot surfaces and sources of ignition.
SECTION 10: Stability and real 10.1 Reactivity No dangerous reaction known 10.2 Chemical stability Stable under normal condition 10.3 Possibility of hazardous real Hazardous reactions 10.4 Conditions to avoid Conditions to avoid	n under conditions of normal use. ns. actions : Vapours may form explosive mixture with air. Pressurized container: May burst if heated. : Keep away from open flames, hot surfaces and sources of ignition. Strong sunlight for prolonged periods.
SECTION 10: Stability and rea 10.1 Reactivity No dangerous reaction known 10.2 Chemical stability Stable under normal condition 10.3 Possibility of hazardous rea Hazardous reactions 10.4 Conditions to avoid Conditions to avoid 10.5 Incompatible materials	n under conditions of normal use. ns. actions : Vapours may form explosive mixture with air. Pressurized container: May burst if heated. : Keep away from open flames, hot surfaces and sources of ignition. Strong sunlight for prolonged periods.



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SECTION 11: Toxicological information 11.1 Information on toxicological effects Acute toxicity Acute oral toxicity Hydrocarbons, C9-C11, n-: LD50: > 5,000 mg/kg alkanes, isoalkanes, cyclics, Species: rat < 2% aromatics Method: OECD Test Guideline 401 Naphtha (petroleum), hy-: LD50: > 5,000 mg/kg drotreated heavy (benzene < Species: rat 0,1 %) 1-Methoxy-2-propanol : LD50: 5,000 mg/kg Species: rat Acute inhalation toxicity 1.1.1.2-Tetrafluoroethane : LC50: > 500000 ppm Exposure time: 4 h Species: rat : LC50: 6 mg/l 1-Methoxy-2-propanol Exposure time: 4 h Species: rat Acute dermal toxicity Hydrocarbons, C9-C11, n-: LD50: > 5,000 mg/kg alkanes, isoalkanes, cyclics, Species: rabbit Method: OECD Test Guideline 402 < 2% aromatics : LD50: > 2,000 mg/kg Naphtha (petroleum), hydrotreated heavy (benzene < Species: rabbit 0,1 %) 1-Methoxy-2-propanol : LD50: 13,500 mg/kg Species: rat Skin corrosion/irritation Skin irritation : May cause skin irritation in susceptible persons. Serious eye damage/eye irritation Eye irritation : May cause eye irritation with susceptible persons. 11/16 - EN



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Respiratory or skin sensitis	ation	
Sensitisation	: No data available	
Teratogenicity Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	: Species: rat Animal testing did not show any effect ment.	cts on foetal develop-
Neurological effects	: May cause drowsiness or dizziness.	
Toxicology Assessment		
Repeated dose toxicity	: Repeated exposure may cause skin	dryness or cracking.
ECTION 12: Ecological infor	mation	
2.1 Toxicity	aradust are not available	
Ecotoxicology studies for the p	JIOUUCI ALE HOL AVAIIADIE.	
Toxicity to fish Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	: Limit Test LC50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainl Method: OECD Test Guideline 203	bow trout)
Toxicity to fish Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics,	: Limit Test LC50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainl	bow trout)
Toxicity to fish Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	 Limit Test LC50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainl Method: OECD Test Guideline 203 LC50: 450 mg/l Exposure time: 24 h Salmo gairdneri 	
Toxicity to fish Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics 1,1,1,2-Tetrafluoroethane Toxicity to daphnia and other a Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics,	 Limit Test LC50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainl Method: OECD Test Guideline 203 LC50: 450 mg/l Exposure time: 24 h Salmo gairdneri aquatic invertebrates Limit Test EC50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water fleat))
Toxicity to fish Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics 1,1,1,2-Tetrafluoroethane Toxicity to daphnia and other a Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, < 2% aromatics	 Limit Test LC50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainl Method: OECD Test Guideline 203 LC50: 450 mg/l Exposure time: 24 h Salmo gairdneri aquatic invertebrates Limit Test EC50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea Method: OECD Test Guideline 202 EC50: 980 mg/l Exposure time: 24 h)



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alkanes, isoalkanes, cyclics, < 2% aromatics	Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)	
	NOEC: 100 mg/l Exposure time: 72 h Species: Pseudokirchneriel	la subcapitata (green algae)
Toxicity to bacteria 1,1,1,2-Tetrafluoroethane	: EC10: > 730 mg/l Exposure time: 6 h Species: Pseudomonas put	iida
12.2 Persistence and degradabil	ty	
Biodegradability	: No data available	
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		
		ersistent, bioaccumulating and toxic to be very persistent and very bioac-
12.6 Other adverse effects		
Additional ecological infor- mation	: slightly water endangering Do not flush into surface wa Avoid subsoil penetration.	ater or sanitary sewer system.
SECTION 13: Disposal consid	erations	
13.1 Waste treatment methods		
Product	: Dispose of in accordance w	ith local regulations.
Contaminated packaging	: Dispose of as unused produ	uct.
Waste Code	: Waste codes should be as	signed by the user, preferably in
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discussion with the waste disposal authorities.

SECTION 14: Transport information

UN number UN proper shipping name	-	1950 AEROSOLS
Transport hazard class(es)	:	2
Classification Code	:	5F
Limited Quantity (LQ) Inner	:	1.00 L
Packaging		
Maximum quantity	:	30.00 KG
Labels	:	2.1
Tunnel restriction code	:	(D)
Environmentally hazardous	:	no

ΙΑΤΑ

UN number	: 1950
Description of the goods	: Aerosols, flammable
Class	: 2.1
Labels	: 2.1

IATA_C

Packing instruction (cargo	: 203
aircraft)	
Packing instruction (LQ)	: Y203
Maximum quantity	: 150.00 KG
Environmentally hazardous	: no

IATA_P

Packing instruction (passen-	:	203
ger aircraft)		
Packing instruction (LQ)	:	Y203
Maximum quantity	:	75.00 KG
Environmentally hazardous	:	no

IMDG

UN number	: 1950
Description of the goods	: AEROSOLS
Class	: 2.1
Labels	: 2.1
EmS Number 1	: F-D
EmS Number 2	: S-U
Marine pollutant	: no
	Shaded from sources

Shaded from sources of heat. "IMDG-Code segregation group not applicable".

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	Shaded from sources of heat. "IMDG-Code segregation group r	not applicable".
RID		
UN number	: 1950	
Description of the goods	: AEROSOLS	
Transport hazard class(es)	: 2	
Classification Code	: 5F	
Hazard Identification Number		
Labels	: 2.1	
Limited Quantity (LQ) Inner	: 1.00 L	
Packaging		
Maximum quantity	: 30.00 KG	
Environmentally hazardous	: no	
SECTION 15: Regulatory infor	mation	
15.1 Safety, health and environm	ental regulations/legislation specific	for the substance or mixture
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain subs cern (Regulation (EC) No 1907/200	tances of very high con-
Water contaminating class (Germany)	: WGK 1 slightly water endangering VWVWS A4	
Other regulations	: The product is classified and labelle directives or respective national law Regional or national implementation ment all hazard classes and catego	vs. ns of GHS may not imple-
	: Classification / Labeling according	to Directive 2008/47/EU.
5.2 Chemical Safety Assessment 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.		
SECTION 16: Other informatio	n	
Full text of R-phrases referre	ed to under sections 2 and 3	
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R10	Flammable.	
R65	Harmful: may cause lung damage if swallowed.	
R66	Repeated exposure may cause skin dryness or o	cracking.
R67	Vapours may cause drowsiness and dizziness.	
Full text of H-St	tatements referred to under sections 2 and 3.	
EUH066	Repeated exposure may cause skin dryness or	cracking.
H223	Flammable aerosol.	Ū.
H226	Flammable liquid and vapour.	
H229	Pressurized container: May burst if heated.	
H304	May be fatal if swallowed and enters airways.	
H336	May cause drowsiness or dizziness.	
	as referred to under section 3	
Nota H	The classification and label shown for this substa dangerous property(ies) indicated by the risk phi with the category(ies) of danger shown. The man and downstream users of this substance shall be investigation to make themselves aware of the re data which exists for all other properties to class stance. The final label shall follow the requirement nex VI of this Directive.	rase(s) in combination nufacturers, importers e obliged to carry out an elevant and accessible ify and label the sub- ents of section 7 of An-
Nota P	The classification as a carcinogen or mutagen no be shown that the substance contains less than (Einecs No 200-753-7). When the substance is of gen or mutagen, Note E shall also apply. When classified as a carcinogen or mutagen at least th 62 shall apply. This note applies only to certain of substances in Annex I.	0,1 % w/w benzene classified as a carcino- the substance is not he S-phrases (2-)23-24-

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.