

CHAMÄLEON GMBH RUDOLF-DIESEL-STRASSE 8A 69115 HEIDELBERG GERMANY

 FON
 0049 (0) 6221 - 520 440

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 0049 (0) 6221 - 520 449

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SAFETY DATA SHEET according to 1907/2006/EC, Article 31

Revision date: 21.07.2022

<u>1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/</u> <u>UNDERTAKING</u>

Product details Trade name: 2K Aerosol Clear coat premium Article number: 11013 Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available. Sector of Use: SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Product category: PC9a Coatings and paints, thinners, paint removers **Process category: PROC7** Industrial spraying PROC11 Non industrial spraying Intended use: Car refinishing product/ Lacquer Manufacturer/Supplier: Chamäleon GmbH Rudolf-Diesel-Straße 8a, 69115 Heidelberg Germany Further information obtainable from: Product Safety Department Information in case of emergency: + 49 70024112112 (CH)

<u>2 – HAZARDS IDENTIFICATION</u>

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



health hazard



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Carc. 2 H351 Suspected of causing cancer.



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

aliphatic polyisocyanate

acetone

4-methylpentan-2-one

n-butyl acetate

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

BANK HEIDELBERGER VOLKSBANK EG IBAN DE78 6729 0000 0042 8627 03 BIC GENODE61HD1

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P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents / container in accordance with regional regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use. Buildup of explosive mixtures possible without sufficient ventilation.

Other hazards

-

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3- COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:			
CAS: 115-10-6	dimethyl ether	25-<50%	
EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	Flam. Gas 1A, H220 Press. Gas (Comp.), H280		
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	12.5-<20%	
EC number: 905-588-0	xylene	5-<10%	
Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		
CAS: 123-86-4	n-butyl acetate	5-<10%	
EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066		
EC number: 931-274-8	aliphatic polyisocyanate	2.5-<5%	
Reg.nr.: 01-2119485796-17	Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335 EUH204		



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CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom.	<2.5%
EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119486773-24	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 110-12-3	5-methylhexan-2-one	<2.5%
EINECS: 203-737-8 Index number: 606-026-00-4	Flam. Liq. 3, H226 Acute Tox. 4, H332	
CAS: 112-07-2 EINECS: 203-933-3	2-butoxyethyl acetate	<2.5%
Index number: 607-038-00-2 Reg.nr.: 01-2119475112-47	Acute Tox. 4, H312; Acute Tox. 4, H332	
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one	<2.5%
	Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336 EUH066 ATE: LC50 / 4 h inhalative: 11 mg/m3	
CAS: 95-63-6	1,2,4-trimethylbenzene	<2.5%
EINECS: 202-436-9 Index number: 601-043-00-3 Reg.nr.: 01-2119472135-42	Flam. Liq. 3, H226 Aquatic Chronic 2, H411 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	≤0.5%
Keg.III.: 01-2119491504-40	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	

Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply.

xylene: Contains ethylbenzene CAS 100-41-4

For the wording of the listed hazard phrases refer to section 16.

<u>4– FIRST - AID MEASURES</u>

Description of first aid measures After inhalation:



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Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Immediately wash with water and soap and rinse thoroughly.
After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
Most important symptoms and effects, both acute and delayed: No further relevant information

available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5- FIRE - FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
Special hazards arising from the substance or mixture:
During heating or in case of fire poisonous gases are produced.
Advice for firefighters Protective equipment: Mouth respiratory protective device.

6-ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.



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<u>7– HANDLING AND STORAGE</u>

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke
Keep respiratory protective device available.
Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurised containers.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.
Storage class: 2B
Specific end use(s): No further relevant information available.

<u>8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</u>

Control pa Ingredient	rameters ts with limit values that require monitoring at the workplace:
8	dimethyl ether
WEL	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
67-64-1 a	cetone
WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
xylene	
WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
123-86-4	n-butyl acetate
WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
110-12-3	5-methylhexan-2-one
WEL	Short-term value: 475 mg/m ³ , 100 ppm Long-term value: 95 mg/m ³ , 20 ppm Sk
112-07-2	2-butoxyethyl acetate



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WEL	Short-term value: 332 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Sk			
108-10-1	4-methylpentan-2-one			
WEL	WEL Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm Sk, BMGV			
95-63-61	-63-6 1,2,4-trimethylbenzene			
WEL	Long-term value: 125 mg/m ³ , 25 ppm ILV			
Ingredien	ngredients with biological limit values:			
xylene				
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid			
108-10-1	4-methylpentan-2-one			
BMGV	20 μmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one			

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

Exposure controls

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Avoid contact with the eyes.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A2/P3

Hand protection: Protective gloves

Material of gloves: Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of



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quality and varies from manufacturer to manufacturer.
Penetration time of glove material:
Butyl rubber gloves with a thickness of 0.4 mm are resistant to:
Acetone: 480 min
Butyl acetate: 60 min
Ethyl acetate: 170 min
Xylene: 42 min
Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.

Eye/face protection: Tightly sealed goggles

9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties				
General Information				
Physical state:	Aerosol			
Colour:	According to product specification			
Odour:	Characteristic			
Odour threshold:	Not determined.			
Melting point/freezing point:	Undetermined.			
Boiling point or initial boiling point and				
boiling range:	Not applicable, as aerosol.			
Flammability:	Not applicable.			
Lower and upper explosion limit				
Lower:	2.6 Vol % (67-64-1 acetone)			
Upper:	26.2 Vol % (115-10-6 dimethyl ether)			
Flash point:	Not applicable, as aerosol.			
Ignition temperature:	240 °C (464 °F) (115-10-6 dimethyl ether)			
Decomposition temperature:	Not determined.			
pH:	Not determined.			
Viscosity:				
Kinematic viscosity	Not determined.			
Dynamic:	Not determined.			
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Not miscible or difficult to mix.
Not determined.
4000 hPa (3000.2 mm Hg) (115-10-6 dimethyl ether
$0.8 \ g/cm^3 \ (6.7 \ lbs/gal)$
Not determined.
Not determined.
Aerosol
alth and
Not determined.
83.0 %
677.2 g/l
82.59 %
10.3 %
Not applicable.
classes
Void
Void
Extremely flammable aerosol. Pressurised containe
May burst if heated.
Void
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Corrosive to metals:	Void	
Desensitised explosives:	Void	

<u>10– STABILITY AND REACTIVITY</u>

Reactivity No further relevant information available.

Chemical stability

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

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

<u>11– TOXILOGICAL INFORMATION</u>

Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

LD/LC50 values relevant for classification:				
67-64-1 acetone				
Oral	LD50	5800 mg/kg (rat)		
Dermal	LD50	>15800 mg/kg (rabbit)		
Inhalative	LC50 / 4h	76 mg/l (rat)		
xylene				
Oral	LD50	3523 mg/kg (rat)		
Dermal	LD50	2000 mg/kg (rabbit)		
Inhalative	Inhalative LC50/4 h 29000 mg/m3 (rat)			
123-86-4 n-buty	yl acetate			
Oral	LD50	10800 mg/kg (rat) (OECD 401)		
Dermal	LD50	>17600 mg/kg (rabbit)		
Inhalative	LC50/4 h	>21 mg/m3 (rat)		
aliphatic polyise	ocyanate			
Oral	LD50	2500 mg/kg (rat) (OECD 402)		
Dermal	LD50	2000 mg/kg (rat) (OECD 402)		
Inhalative	LC50/4 h	400 mg/m3 (rat)		
64742-95-6 Solvent naphtha (petroleum), light arom.				

STEUERNUMMER/TAX NR.: DE 231468544 EORI NR./CUSTOMS NR.: DE 6029442 / HRB 9778 GESCHÅFTSFÜHRER/CEO: SASCHA HAGEMANN



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Oral	LD50	>5000 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2000 mg/kg (rab) (OECD 402)	
108-10-1 4-me	ethylpentan-2-one		
Oral	LD50	2080 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rat)	
Inhalative	LC50/4 h	11 mg/m3 (ATE)	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			
Oral	LD50	3230 mg/kg (rat) (OECD 401)	
Dermal	LD50	>3170 mg/kg (rat) (OECD 402)	
	LC50 / 96 h	0.9 mg/l (fish) (Oncorhynchus mykiss)	
Skin corresion/irritation: Causes skin irritation			

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Carcinogenicity: Suspected of causing cancer.

STOT-single exposure: May cause drowsiness or dizziness.

Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

<u> 12 – ECOLOGICAL INFORMATION</u>

Toxicity			
Aquatic toxicity:			
115-10-6 dimethyl	ether		
EC50 / 96 h	155 mg/l (algae)		
LC50 / 48 h	>4000 mg/l (daphnia magna)		
LC50 / 96 h	>4000 mg/l (fish)		
67-64-1 acetone			
LC50/96h	8300 mg/l (fish)		
EC50/96h	7200 mg/l (algae)		
LC50 / 48 h	8450 mg/l (crustacean (water flea))		
xylene	xylene		
EC50 / 48 h	7.4 mg/l (daphnia magna)		
LC50 / 96 h 13.5 mg/l (fish)			
108-10-1 4-methylp	108-10-1 4-methylpentan-2-one		
EC50 / 48 h	275 mg/l (daphnia magna)		
LC50 / 96 h	179 mg/l (fish)		



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bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 1.68 mg/l (desmdesmus subspicatus / Grünalge) (Pseudokirchnerella subcapitata) EC50 / 72 h Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. **Results of PBT and vPvB assessment PBT:** Not applicable. vPvB: Not applicable. **Endocrine disrupting properties:** The product does not contain substances with endocrine disrupting properties. Other adverse effects **Remark:** Harmful to fish Additional ecological information: **General notes:** Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

13-DISPOSAL CONSIDERATION

Waste treatment methods Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. Uncleaned packaging: Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

14-TRANSPORT INFORMATION

UN number or ID number ADR, IMDG, IATA

UN1950

UN proper shipping name ADR IMDG IATA

1950 AEROSOLS AEROSOLS AEROSOLS, flammable

Transport hazard class(es)



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ADR



IMDG, IATA



Packing group ADR, IMDG, IATA

Environmental hazards:

Special precautions for user

Danger code (Kemler): EMS Number: Stowage Code:

Segregation Code:

2 5F Gases. 2.1

2.1 Gases. 2.1

not regulated

Not applicable

Warning: Gases.

F-D.S-U

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

Maritime transport in bulk according to IMO instruments: Not applicable. Transport/Additional information: ADR

1L Code: E0 Not permitted as Excepted Quantity

Limited quantities (LQ)

Excepted quantities (EQ)



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Transport category Tunnel restriction code	2 D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

<u>15 – REGULATORY INFORMATION</u>

UN ''Model Regulation'':

Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU

UN 1950 AEROSOLS, 2.1

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)

Regulation (EC) No 273/2004 on drug precursors			
67-64-1	acetone	3	
108-88-3	toluene	3	

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16-OTHER INFORMATION

Relevant phrases

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.



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H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. 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. EUH066 Repeated exposure may cause skin dryness or cracking. EUH204 Contains isocyanates. May produce an allergic reaction. **Abbreviations and acronyms:** ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases - Category 1A Aerosol 1: Aerosols - Category 1 Press. Gas (Comp.): Gases under pressure - Compressed gas Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.