Printing date 16.10.2014

Version number 1403

Revision: 16.10.2014

Printing date 16.10.2014	Version number 1403 Revision. 10.10.2014	
SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking	
. 1.1 Product identifier		
. Trade name:	ReflexEX small	
. Article number: . 1.2 Relevant identified uses of the subs . Sector of Use	RS 400.01 stance or mixture and uses advised against SU3 Industrial uses: Uses of substances as such or in preparations at industrial	
. Product category . Process category . Environmental release category . Application of the substance / the mixture	sites PC9a Coatings and paints, thinners, paint removers PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) ERC2 Formulation of preparations Mineral coating	
. 1.3 Details of the supplier of the safety data sheet		
. Manufacturer/Supplier:	Opcotec GmbH Louisenstr. 69 D-61348 Bad Homburg Telefon: +49-(0)69-95504526, Mobil: +49-(0)171-1885927 E-mail: acsogaro@opcotec.eu cc: tmilutin@opcotec.eu www.opcotec.eu	
. Further information obtainable from: . 1.4 Emergency telephone number:	Environment protection department Advice centre for poisoning university Mainz phone +49(0)6131/19240 or poison information:+49(0)700/GIFTINFO	
SECTION 2: Hazards identification		
2.1 Classification of the substance or n		
. Classification according to Regulation (EC	;) No 1272/2008	
Flam, Aerosol 1, H222-H229, Extremely fl	ammable aerosol. Pressurised container: May burst if heated.	
. Classification according to Directive 67/54	-	
R12: Extremely flammable. Information concerning particular hazards for human and environment:	The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.	
. Classification system:	The classification is according to the latest editions of the EU-lists, and extended by company and literature data.	
. 2.2 Label elements . Labelling according to Regulation (EC) No 1272/2008 . Hazard pictograms	The product is classified and labelled according to the CLP regulation.	
. Signal word . Hazard statements	Danger H222-H229 Extremely flammable aerosol. Pressurised container: May burst if	
. Precautionary statements	heated. P102 Keep out of reach of children. P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50	
. Additional information:	°C/122 °F. EUH066 Repeated exposure may cause skin dryness or cracking. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Buildup of explosive mixtures possible without sufficient ventilation.	
. 2.3 Other hazards		
. Results of PBT and vPvB assessment . PBT:	Not applicable.	
. vPvB:	Not applicable. (Contd. on page 2)	
	Gental or page 2/	

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SECTION 3: Composition/information on ingredients

. Dangerous compone	ints:	
CAS: 106-97-8 EINECS: 203-448-7	butane (containing \leq 0,1 % butadiene (106-99-0)) F+ R12 Flam. Gas 1, H220; Press. Gas, H280	50-100%
EINECS: 200-827-9	propane	25-50%
	isobutane (containing \leq 0,1 % butadiene (106-99-0))	2.5-10%
CAS: 64-17-5 EINECS: 200-578-6	ethanol F R11 � Flam. Liq. 2, H225	2.5-10%
. Additional informatio	n: For the wording of the listed risk phrases refer to section 16.	

SECTION 4: First aid measures

 4.1 Description of first aid measures After inhalation: After skin contact: After eye contact: After swallowing: 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical attention and special treatment needed 		
SECTION 5: Firefighting measures		
. 5.1 Extinguishing media		
. Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
	CO2, sand, extinguishing powder. Do not use water.	
. For safety reasons unsuitable extinguishing agents:	Water	
5.2 Special hazards arising from the substance or mixture	No further relevant information available.	
. 5.3 Advice for firefighters . Protective equipment:	No special measures required.	
SECTION 6: Accidental release measures		

. 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Keep away from ignition sources. Use respiratory protective device against the effects of fumes/dust/aerosol. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Prevent seepage into sewage system, workpits and cellars. . 6.2 Environmental precautions: 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure ádequate ventilation. Do not flush with water or aqueous cleansing agents . 6.4 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.

SECTION 7: Handling and storage		
. 7.1 Precautions for safe handling . Information about fire - and explosion	Open and handle receptacle with care.	
protection:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.	
. 7.2 Conditions for safe storage, including any incompatibilities . Storage:		
. Requirements to be met by storerooms		

and receptacles:

Store in a cool location.

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 Information about storage in one common storage facility: Further information about storage conditions: 	Store away from oxidising agents. Store in cool, dry conditions in well sealed receptad Protect from heat and direct sunlight.	(Contd. of page 2)
. 7.3 Specific end use(s)	Store receptacle in a well ventilated area. No further relevant information available.	
SECTION 8: Exposure controls/personal protection		
. Additional information about design of technical facilities:	No further data; see item 7.	
. 8.1 Control parameters . Ingredients with limit values that require m	onitoring at the workplace:	
106-97-8 butane (containing \leq 0,1 % but		
WEL Short-term value: 1810 mg/m ³ , 750 Long-term value: 1450 mg/m ³ , 600 p Carc (if more than 0.1% of buta-1.3-	ppm pom	
64-17-5 ethanol WEL Long-term value: 1920 mg/m ³ , 1000	nom	
. Additional information:	The lists valid during the making were used as bas	is.
 8.2 Exposure controls Personal protective equipment: General protective and hygienic measures: 	Wash hands before breaks and at the end of work.	
. Respiratory protection: . Protection of hands:	Use suitable respiratory protective device in case of The glove material has to be impermeable and resist substance/ the preparation. Due to missing tests no recommendation to the glop product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of diffusion and the developmendation.	istant to the product/ the
. Material of gloves	diffusion and the degradation The selection of the suitable gloves does not only of on further marks of quality and varies from manufa- product is a preparation of several substances, the can not be calculated in advance and has therefore application.	cturer to manufacturer. As the resistance of the glove material
. Penetration time of glove material . Eye protection:	The exact break through time has to be found out to protective gloves and has to be observed. Tightly sealed goggles	by the manufacturer of the
SECTION 9: Physical and chemical	properties	
 . 9.1 Information on basic physical and c . General Information . Appearance: 		
Form: Colour:	Dispersion White	
. Odour: . Odour threshold:	Characteristic Not determined.	
. pH-value:	Not determined.	
. Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. -44 °C	
. Flash point:	-60 °C	
. Flammability (solid, gaseous):	Not applicable.	
. Ignition temperature:	365 °C	
. Decomposition temperature:	Not determined.	
. Self-igniting:	Product is not selfigniting.	
. Danger of explosion:	Not determined.	
. Explosion limits: Lower: Upper:	1.5 Vol % 10.9 Vol %	
. Vapour pressure at 20 °C:	8300 hPa	
. Density at 20 °C: . Relative density . Vapour density . Evaporation rate	0.7151 g/cm ³ Not determined. Not determined. Not determined.	
		(Contd. on page 4) GB

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Trade name: ReflexEX small	
 Solubility in / Miscibility with water: Partition coefficient (n-octanol/water): Viscosity: Dynamic: Kinematic: Solvent content: Organic solvents: 9.2 Other information SECTION 10: Stability and reactivity 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / conditions to be avoided: 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid 10.5 Incompatible materials: 10.6 Hazardous decomposition products: 	(Contd. of page 3) Not miscible or difficult to mix. Not determined. Not determined. 86.4 % No further relevant information available. No decomposition if used according to specifications. No dangerous reactions known. No further relevant information available. No further relevant information available. No further relevant information available. Hazardous thermal decomposition products may include: Formaldehyde, Carbon dioxide, Carbon monoxide, Methanol
SECTION 11: Toxicological informa	tion
. 11.1 Information on toxicological effect : . Acute toxicity: . Primary irritant effect: . on the skin: . on the eye: . Sensitisation:	s No irritant effect. Irritating effect. No sensitising effects known.
SECTION 12: Ecological information	1
12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information: General notes:	No further relevant information available. No further relevant information available. No further relevant information available. No further relevant information available. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
. PBT:	Not applicable.
. vPvB: . 12.6 Other adverse effects	Not applicable. No further relevant information available.
SECTION 13: Disposal consideratio	ns
. 13.1 Waste treatment methods . Uncleaned packaging: . Recommendation:	according to local regulations Non contaminated packagings may be treated like household garbage.
SECTION 14: Transport information	
. 14.1 UN-Number . ADR, IMDG, IATA . 14.2 UN proper shipping name . ADR . IMDG . IATA . 14.3 Transport hazard class(es) . ADR	UN1950 1950 AEROSOLS AEROSOLS AEROSOLS, flammable
. Class	2 5F Gases. (Contd. on page 5) GB

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. Label	(Contd. of page 4)
. IMDG, IATA	
e	
. Class	2.1
. Label	2.1
. 14.4 Packing group . ADR, IMDG, IATA . 14.5 Environmental hazards:	Void
. Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
. Danger code (Kemler): . EMS Number:	- F-D,S-U
. 14.7 Transport in bulk according to An	
MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	
. ADR	
. Limited quantities (LQ) . Excepted quantities (EQ)	1L Code: E0
	Not permitted as Excepted Quantity
. Transport category . Tunnel restriction code	2 D
. IMDG	
. Limited quantities (LQ)	1L
. Excepted quantities (EQ)	Code: E0
. UN "Model Regulation":	Not permitted as Excepted Quantity UN1950, AEROSOLS, 2.1
SECTION 15: Regulatory informatic	
-	regulations/legislation specific for the substance or mixture
. National regulations:	
	Class Share to %
. Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.
SECTION 16: Other information	
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.	
. Department issuing MSDS: . Abbreviations and acronyms:	Environment protection department. ADR: Accord européen sur le transport 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) Flam. Gas 1: Flammable gases, Hazard Category 1 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gases under pressure: Compressed gas Flam. Lig. 2: Flammable liquids, Hazard Category 2
. * Data compared to the previous version	· · · · · · · · · · · · · · · · · · ·

altered.