

According to Regulation of EP&C No. 1907/2006 on REACH of 18 Dec.2006; Appendix II changing by Regulation of EP&C No. 830/2015 appendix II.

Date of first issue: 05.01.2017 r

1. Identification of the substancje/ mixture and of the company un 1.1 PRODUKT IDENTIFIER SIDOLUX CRYSTAL for windows 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCJE OR MIXTURE AN AGAINST Application: For cleaning windows, mirrors, tiles and other smooth surface consumers Application advised against any other than those mentioned above.	D USES ADVISED
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCIE OR MIXTURE AN AGAINST Application: For cleaning windows, mirrors, tiles and other smooth surface consumers	
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AGAINST Application: For cleaning windows, mirrors, tiles and other smooth surface consumers	
Application: For cleaning windows, mirrors, tiles and other smooth surface consumers	es accessible to all
consumers	es accessible to all
consumers	es accessible to all
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	
LAKMA Strefa Sp. z o.o.	
7 Gajowa str.	
43-254 Warszowice	
phone: +48- 32 43 53 188 fax. +48 -32 43 53 188 ext.213	
e-mail: lakmastrefa@lakma.com;	
internet : http://www.lakma.com	
1.4 EMERGENCY TELEPHNE NUMBER	
phone: +48- 32 43 53 188	
2. HAZARDS IDENTIFICATION	
2.1 CLASSIFICATION OF THE SUBSTANCIE OR MIXTURE	
According to binding law, product is not classified as dangerous preparation	n
2.2 LABEL ELEMENTS	
Keep out of reach of children	
<u>Sidolux Crystal lemon</u> : Ingredients: < 5% anionic surfactants, < 5% nonionic surfactants, fragrand	co (Limonono)
preservatives (Benzisothiazolinone, Methylisothiazolinone)	
Sidolux Crystal flower:	
< 5% anionic surfactants, < 5% nonionic surfactants, fragrance, preservati	ves
(Benzisothiazolinone, Methylisothiazolinone)	
Sidolux Crystal arctic:	
< 5% anionic surfactants, < 5% nonionic surfactants, fragrance, preservati	ves
(Benzisothiazolinone, Methylisothiazolinone) 2.3 OTHER HAZARDS	
This products contains no substances considered to be persistent, bioaccum	ulating
nor toxic (PBT). Thid product contains no substances considered to be persistent, blocecum	
very bioaccumulating (vPvB)	F
3. COMPOSITION/ INFORMATION ON INGREDIENTS	
3.1 SUBSTANCES	
Not applicable	
3.2 MIXTURES	



OF EP&C No. 8	COMPONENTS:				
Chemical name		CAS-No EC-No	Classification (Regultion (EC) no 1272/2008	Concentration [%]	
		Index-No Registration number			
2-butoxyethanol		111-76-2	Acute Tox.4, H332, H312, H302	1 – 5	
		203-905-0	Eye Irrit 2, H319		
		603-014-00-0 01- 2119475708- 36-xxxx	Skin Irrit 2, H315		
Isopropyl alc	ohol	67-63-0	Flam. Liq. 2 H225	1-3	
		200-661-7	Eye Irrit. 2 H319		
		603-117-00-0 01-2119457558-25-xxxx	STOT SE 3 H336		
		01 2119 137 330 23 7777			
Ammonium h	vdroxide	1336-21- 6	Skin Corr 1B, H314	0,05-0,1	
		215-647- 6	Aquatic Acute 1, H400		
		007-001-01-2 01- 2119488876- 14-xxxx			
		01-2119-00070-1XXXX			
4 FIRST	AID MEASU	PFS			
4.1		PTION OF FIRST AID MEA	ASURES		
			ely - or transfer the victim to the	hospital - show this	
		ckage of product or label.	-		
IF INHALED Under normal conditions , virtually immediately move casualty to fresh a			case of emergency,		
IN CASE OF SKIN		Preventively wash skin with soap and water. In case of skin irritation			
CONTACT			symptoms occur - ensure medical aid		
IN CASE OF EYE		Flush eyes with huge amount of clean, running water. In case of eye irritation symptoms occur - ensure medical (preferablophthalmologist)			
CONTACT		aid immediately!		2 /	
IF SWALLO	OWED		, administer 1-2 cupfuls of water		
		medical aid immediately and show this Safety Data Sheet (SDS), package			
		of product or its label. Never force vomiting and never give anything by mouth to an unconscious			
		pr obfuscate person			
4.2	MOST IMPOR		FECTS, BOUTH ACUTE AND DELAY	ED	
	No information				
4.3		OF ANY IMMEDIATE MEDI	CAL ATTENTION AND SPECIAL TRE	ATMENT	
	NEEDED No information	an available			
5.1 5.1					
J.1			burning surrounding: carbon dioxi	de, extinauishina	
		n extinguisher, dispersed v			
5.2	SPECIAL HAZA	ARDS ARISING FROM THE	SUBSTANCE OR MIXTURE		
	Do not apply o	cumulative water streams	onto surface of the liquid.		
5.3	ADVICE FOR F	FIREFIGHTERS			
			ours or fumes - containing organic		
			e generated. Do not inhale fumes. preathing apparatus, provided with		



of EP&C	No. 830/2015 appendix II.
	source of air supply
6. ACC	IDENTAL RELEASE MEASURES
6.1	PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
	Do not allow outsiders and unauthorized persons to enter the accidental area. Avoid direct contact with the product, provide suitable ventilation, use appropriate personal protective equipment; see section 8.
6.2	ENVIRONMENTAL PRECAUTIONS
	Prevent contamination of soil, surface/ground waters, drainage ditches, rivers and sewage systems by large amount of product.
6.3	METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP
	The released product adsorb with an inert material (soil, sand), next place into the marked container. Clean contaminated area. Dispose of contaminated material for utilisation
6.4	REFERENCES TO OTHER SECTIONS
	Section 8
	Prevent spreading oper a wide area (e.g. by containment or oil barriers)
	NDLING AND STORAGE
7.1	PRECAUTIONS OR SAFE HANDLING
	Follow the general safety rules and regulations concerning Good Manufacturing Practice (GMP) and handling of chemicals; carefully follow routine procedures of handling as well as all manufacturer's recommendations. Avoid eyes contamination.
7.2	CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES
	Respect general precautions and rules concerning safety storage of chemical substances. Store at dry places, in tightly closed packaging, situated in vertical position, at a temperature within the range of $+5$ to $+35^{\circ}$ C. Do not store in the vicinity of food. Keep out of the reach of children.
7.3	SPECIFIC END USES
	No information available
8. EXP	OSURE CONTROLS/ PERSONAL PROTECTION
8.1	CONTROL PARAMETERS
0.12	2-butoxyethanol
	NDS 98 mg/m3
	NDSCH 200 mg/m3
	Employees:
	DNEL- acute exposure - systemic effects: dermal 89 mg / kg / d
	DNEL- acute exposure - systemic effects: inhalation of 663 mg / m3
	DNEL- local effects: After inhalation of 246 mg / m3
	Long-term exposure - systemic effects: dermal 75 mg / kg / d
	Long-term exposure - systemic effects: inhalation 98 mg / kg
	Consumers:
	DNEL- acute exposure - systemic effects: skin 44.5 mg / kg / d
	DNEL- acute exposure - systemic effects: inhalation 426 mg / m3
	DNEL- acute exposure - systemic effects: if swallowed 13.4 mg / m3 / d
	DNEL- sharp narażenie- local effects: After inhalation of 123 mg / m3
	DNEL- Long-term exposure - systemic effects: skin 38 mg / kg / d
	DNEL- long-term exposure - systemic effects: inhalation of 49 mg / kg
	DNEL- long-term exposure - systemic effects: if swallowed 3.2 mg / kg / d
	PNEC Fresh water 8.8 mg / I
	Sea water PNEC 8.8 mg / I
	The precipitate fresh water PNEC 8,14 mg / kg



of EP&C No.	830/2015 appendix II.
	Soil PNEC of 2.8 mg / kg
	Isopropyl Alcohol
	NDS 900 mg/m3
	NDSCH 1200 mg/m3
	Ammonium hydroxide
	Employees:
	DNEL- acute exposure - systemic effects: dermal 89 mg / kg / d
	DNEL- acute exposure - systemic effects: inhalation of 663 mg / m3
	DNEL- local effects: After inhalation of 246 mg / m3
	Long-term exposure - systemic effects: dermal 75 mg / kg / d
	Long-term exposure - systemic effects: inhalation mg / kg
	Consumers:
	DNEL- acute exposure - systemic effects: skin 44.5 mg / kg / d
	DNEL- acute exposure - systemic effects: inhalation 426 mg / m3
	DNEL- acute exposure - systemic effects: if swallowed 13.4 mg / m3 / d
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	DNEL- Long-term exposure - systemic effects: skin 38 mg / kg / d
	DNEL- long-term exposure - systemic effects: inhalation of 49 mg / kg
	DNEL- long-term exposure - systemic effects: if swallowed 3.2 mg / kg / d
	PNEC Fresh water 8.8 mg / I
	Sea water PNEC 8.8 mg / I
	The precipitate fresh water PNEC 8,14 mg / kg
	Soil PNEC of 2.8 mg / kg
	PNEC water (fresh water) 0.0011 mg / I / extrapolation method: assessment factor of 20
	PNEC water (sea water) 0.0011 mg / I / extrapolation method: assessment factor of 20
	PNEC water (occasional secretion) 0.089 mg / I / method extrapolation: assessment factor of
	10
	PNEC sediment - ammonia does not accumulate in the sediments
	PNEC soil - not required
	PNEC STP (Sewage Treatment Plant) - ammonia is used
	as nitrogen source by the bacteria and is also produced by
	bacteria as a breakdown product of other nitrogen conjunction. of nitrogen.
	Information PNEC is not required
	PNEC swallow - there is no evidence to suggest properties
	bioaccumulable ammonia (log Kow = 0.23). BCF> 100 (Kow> 30 does not just met, PNEC
	protect against poisoning is not required
	NDS 14 mg / m3
0.2	NDSCH 28 mg / m3
8.2	EXPOSURE CONTROLS
8.2.1	ENGINEERING MEASURES
	Provide eyewash post in case of its contamination. Ensure proper ventilation at the
0 2 2	
8.2.2	INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT
	RESPIRATORY PROTECTION:
	In normal conditions: unnecessary.
	HAND PROTECTION:
	In normal conditions: unnecessary.
	EYE PROTECTION:
	In normal conditions: unnecessary



ot EP&C N	lo. 830/2015 appendix II.	
	HYGIENE MEASURES: Clean hands thoroughly before each break and a	after working
	Keep product away from food, drink and feeding	
	Immediately take-off clothing contaminated wit	
	At work do not eat, drink, smoke or take drugs.	•
8.2.3	ENVIRONMENTAL EXPOSURE CONTROLS	
	No information available	
-	SICAL AND CHEMICAL PROPERTIES	
9.1	INFORMATION ON BASIC PHYSICAL AND CHEM	
	appearance	Clear, blue or green or pink liquid
	odour	Arctic -blue, Flower-pink, Lemon-green
	Odour treshold	Not determined
	pH	5,5 – 6,6
	Melting point/ Freezing point	Not determined
	Initial boiling point and boiling range	Not determined
	Flash point	Non-flammable
	Evaporation rate	Not determined
	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits	Not determined
	Vapour pressure	Not determined
	Vapour denisty	Not determined
	Relative density	0,97 - 1,01 g/cm ³
	Solubility (ies)	Not determined
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature	Full solubility
	Decomposition temperature	Not determined
	Viscosity	Not determined
	Explosive properties	Not determined
	Oxidizing properties	Not determined
9.2	Other information	
	Not determined	
10 . ST	ABILITY AND REACTIVITY	
10.1	REACTIVITY	
	Not determined	
10.2	CHEMICAL STABILITY	
	Stable under normal conditions	
10.3	POSSIBILITY OF HAZARDOUS REACTIONS	
	Prezent no significant reactivity hazards, by itsel	f or in contact with water
10.4	CONDITIONS TO AVOID	
	Avoid elevated as well as sub-zero temperature	S
10.5	INCOMPATIBLE MATERIALS	
	Unknown	
10.6	HAZARDOUS DECOMPOSITION PRODUCTS	
	Unknown.	
11. TO	XICOLOGICAL INFORMATION	



	330/2015 appendix II.
11.1	INFORMATION ON TOXICOLOGICAL EFFECTS
	Tests of toxicity evaluation of given preparation on animals were not conducted.
	2-butoxyethanol
	Acute toxicity
	Rat LD50 (oral)> 200-2000 mg / kg
	LD50 rat (dermal):> 400-2000 mg / kg
	LC50 rat (by inhalation):> 2-20 mg / I / 4h
	Isopropyl Alcohol
	Acute toxicity:
	LD50 rat (oral) 2000 mg / kg
	LD50 rabbit (dermal): 2000 mg / kg
	LD50 rat (inhalation)> 20 mg / l / 8h
	Ammonium hydroxide
	The following data refers to ammonia anhydrous
	Acute toxicity - oral LD50- 350 mg / kg (rat)
	Acute toxicity - inhalation LC50 7035 mg / m3 / 30 min (rat)
	LC50 7939 mg / m3 / h 1 (rat)
	DGICAL INFORMATION
12.1	TOXICITY
	Tests of toxicity evaluation of given preparation on animals were not conducted.
	2-butoxyethanol
	LC50 (96h) >100 mg/l/96h, Lepomis macrochirus
	EC50 (48h)> 100 mg/l/24h, daphnia magna
	EC50 (96h)> 100 mg/l/7 days, scenedesmus subspicatus
	Isopropyl Alcohol
	Acute toxicity to fish: LC50> 100 mg / I / 48h
	Acute toxicity for daphnia: LC50> 100 mg / I / 48h (Daphnia Magna)
	Acute toxicity to algae: LC50> 100 mg / I / 72h (Scenedesmus
	subspicatus) Ammonium hydroxide
	Fish: no data available
	Daphnia: no data available
	Bacteria: ammonia is used as nitrogen source for micro-organisms and is also produced by
	bacteria from other nitrogen compounds: the lack of confirmatory tests ammonia toxicity to
	micro-organisms
	Plants algae aqueous ammonia is a valuable source of nitrogen for algae: EC50 2,700 g / l
	Plants other than algae aqueous ammonia is absorbed by aquatic plants as a source of
	nitrogen and therefore characterized by low toxicity to aquatic plants
12.2	PERSISTENCE AND DEGRADABILITY
	2-butoxyethanol
	biodegradability> 70% after 28 days (activated sludge, OECD 301E)
	Isopropyl Alcohol
	Readily biodegradable. Oxidizes rapidly by chemical reactions in air
	Ammonium hydroxide
	Biodegradability: not applicable products inorganic
12.3	BIOACCUMULATIVE POTENTIAL
	2-butoxyethanol
	no data available
	Isopropyl Alcohol
	Log Po/w≤4
	Ammonium hydroxide
	Log Pow = 0.23



16. OT	HER INFORMATION
	An evaluation of the safety of chemical substances in the mixture
15.2	
15.2	1907/2006 with subsequent amendments CHEMICAL SAFETY ASSESSMENT
	and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No
	December 2008 on classification, labelling and packing of substances and mixtures, amending
	Authorisation and Restriction of Chemicals (REACH), with subsequent amendments);. - Regulation (EC) no 1272/2008 of the European Parliament and of the Counsil of 16
	and of the Council of 18 December 2006 concerning the Registration, Evaluation,
	- Art.31 and Annex II of the REGULATION (EC) No 1907/2006 of the European Parliament
13.1	THE SUBSTANCES OR MIXTURE
15 : RE 15.1	GULATORY INFORMATION SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATION SPECIFIC FOR
45 - 85	No special precautions required
14.7	TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE
147	No special preautions required
14.6	SPECIAL PRECAUTIONS FOR USER
	not classified.
14.5	ENVIRONMENTAL HAZARDOUS
	not classified.
14.4	PACKING GROUP
	not classified.
14.3	TRANSPORT HAZARD CLASS(ES)
	not classified.
14.2	UN PROPER SHIPPING NAME
	not classified.
14.1	UN NUMBER
14. TRA	NSPORT INFORMATION
	recycling or disposal
	Contaminated packaging: empty containers should be taken to an approved handling site for
	Product: dispose of according to local regulations. Avoid disposing into drainage systems and into the environment
13.1	WASTE TREATMENTS METHOD
-	SPOSAL COSIDERATIONS
	There is no data available for this products
12.6	OTHER ADVERSE EFFECTS
	It does not meet the criteria listed in Annex XIII REACH Regulation
12.5	RESULTS OF PBT AND vPvB ASSESEMENT
	processes
1211	The product is well soluble in water and can be eliminated from water as a result of abiotic
12.4	MOBILITY IN SOIL
	Io. 830/2015 appendix II. Ammonia does not bioaccumulate



FULL TEXT OF H-PHRASES REFERRED TO UNDER SECTION 3:
H 225 Highly flammable liquid and vapor
H 302 Harmful if swallowed
H 312 Harmful in contact with skin
H 314 Causes severe skin burns and eye damage
H 315 Causes skin irritation
H 319 Causes serious eye irritation
H 332 Harmful if inhaled
H 400 Very toxic to aquatic life H 336 May cause drowsiness or dizziness
List of necessary trainings:
, 2
Please inform distributors/recipients about this Safety Data Sheet (SDS).
List of recommended restrictions connected with application:
Prohibition of mixing with other household chemicals.
Possibilities to obtain further information:
Manufacturer. See section 1.
Sources of data used for elaboration of the Safety Data Sheet (SDS):
The above information is based on our current level of knowledge and concern of a product in the form of its manufacture. Data relating to given product are presented in order to take into account the safety requirements – it is not intended to guarantee any particular properties of the product or its application.
In the event that conditions of product application are not under the producer's supervision, the safe application of the product is of the user responsibility.
This Safety Data Sheet of chemical preparation was elaborated based on Technical or Safety Data Sheets delivered by producers of individual components of preparation; data included in ECHA side