

Revision nr. 4 Dated 10/10/2020 Printed on 25/11/2020

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Replaced revision:3 (Dated: 22/02/2019)

Accord	Safety Data S ding to Annex II to REACH - Re		
SECTION 1. Identification of the sub	stance/mixture and c	of the company/underta	aking
1.1. Product identifier			
Product name	WINKEL ZINC SPRAY LIGH	iT 400 ml	
1.2. Relevant identified uses of the substance or n Intended use Aerosol zinc.	nixture and uses advised ag	ainst	
Identified Uses Consumer	Industrial	Professional	Consumer
Industrial Use	. 4	-	 ✓
Professional Use	 ✓ 	4	-
1.3. Details of the supplier of the safety data sheet Name Full address District and Country	WINKEL GmbH Lisztstraße 1 53881 Euskirchen - Germa Germany Tel. +49 2251 77 69 400-40 Fax +49 2251 77 69 402		
e-mail address of the competent person			
responsible for the Safety Data Sheet	info@winkelgroup.de		
1.4. Emergency telephone number For urgent inquiries refer to	Centro Antiveleni di Berga Bergamo) Centro Antiveleni di Firenz Centro Antiveleni di Roma Centro Antiveleni di Napol Servicio de Información To de Toxicología y Ciencias Centro de Informação Anti Emergência Médica - Portu Centre Antipoison de Paris Toxicovigilance de Paris - Pomorskie Centrum Toksy Polska) American Association of P	venenos (CIAV): Tel. 800 250 2 Igal) s: Tel. 01 40 05 48 48 (Centre Al	Papa Giovanni XXIII - Careggi - Firenze) Gemelli - Roma) Cardarelli - Napoli) 1 5620420 (Instituto Nacional 50 (Instituto Nacional de ntipoison et de Kład Toksykologii Klinicznej - Fel. +1 (800) 222 1222

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture



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. The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:	H222	Extremely flammable aerosol.
Aerosol, category 1	H229	Pressurised container: may burst if heated.
Aspiration hazard, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Hazardous to the aquatic environment, chronic toxicity, category 2	H304 H319 H315 H336 H411	May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.





Danger

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Signal words:
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Hazard statements:

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H319	Causes serious eye irritation
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 P251 P410+P412 P211 P273 P391 P102	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F. Do not spray on an open flame or other ignition source. Avoid release to the environment. Collect spillage. Keep out of reach of children.
Contains:	Hydrocarbons, C6, isoalkanes Isobutyl acetate Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Statements on the aspiration toxicity classification were not included in the label elements, based on	



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section 1.3.3. of Annex I to CLP. VOC (Directive 2004/42/EC):

Special finishes.

VOC given in g/litre of product in a ready-to-use condition :	550,00
Limit value:	840,00

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Xylene (mixture of isomers)		
CAS 1330-20-7	23 ≤ x < 27	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C
EC 215-535-7		
INDEX 601-022-00-9		
Reg. no. 01-2119488216-32-XXXX		
Propane		
CAS 74-98-6	19 ≤ x < 23	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U
EC 200-827-9		
INDEX 601-003-00-5		
Reg. no. 01-2119486944-21-0046		
Hydrocarbons, C6, isoalkanes		
CAS 64742-49-0	15≤x< 19	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: P
EC 265-151-9		
INDEX 649-328-00-1		
Reg. no. 012119484651-34-XXXX		
Petroleum Resins		
CAS 64742-16-1	15≤x< 19	Aquatic Chronic 4 H413
EC 265-116-8		
INDEX -		
Butane		
CAS 106-97-8	9≤x< 11	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C U
EC 203-448-7		Ŭ
INDEX 601-004-00-0		
Reg. no. 01-2119474691-32-XXXX		



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Aluminium Powder (stabilised)		
CAS 7429-90-5	1 ≤ x < 3	Flam. Sol. 1 H228, Water-react. 2 H261, Classification note according to Annex VI to the CLP Regulation: T
EC 231-072-3		
INDEX 013-002-00-1		
Reg. no. 01-2119529243-45-XXXX		
Isobutyl acetate		
CAS 110-19-0	1 ≤ x < 3	Flam. Liq. 2 H225, STOT SE 3 H336, EUH066, Classification note according to Annex VI to the CLP Regulation: C
EC 203-745-1		
INDEX 607-026-00-7		
Reg. no. 01-2119488971-22-XXXX		
Isobutane		
CAS 75-28-5	1≤x< 3	Flam. Gas 1A H220, Press. Gas H280
EC 200-857-2		
INDEX 601-004-00-0		
Reg. no. 01-2119485395-27-XXXX		
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, <2% aromatics		
CAS -	1 ≤ x < 3	Asp. Tox. 1 H304, EUH066
EC 918-481-9		
INDEX -		
Reg. no. 01-2119457273-39-XXXX		
Zinc Powder (stabilised)		
CAS 7440-66-6	0,5 ≤ x < 1	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: T
EC 231-175-3		
INDEX 030-001-01-9		
Reg. no. 01-2119467174-37-XXXX		
Quartz		
CAS 14808-60-7	0 ≤ x < 0,5	STOT RE 2 H373
EC 238-878-4		
INDEX -		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 31,00 %

Hydrocarbons, C6, isoalkanes

Hydrocarbons, C6, isoalkanes, <5% n-hexane: a complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20Å ° C to 190Å ° C (-4Å ° F to 374Å ° F).

SECTION 4. First aid measures

4.1. Description of first aid measures



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EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

Aluminium Powder (stabilised) Dry sand; Special powder against metal combustion. Unsuitable extinguishing media: water, foam ABC powder, carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up



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Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU ESP FRA	Deutschland España France	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST) Valeurs limites d'exposition professionnelle aux agents chimigues en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
		trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OELEU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
	TLV-ACGIH	2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2020

Xylene (mixture of isomers)

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
VLA	ESP	221	50	442	100	SKIN	
VLEP	FRA	221	50	442	100	SKIN	
VLEP	ITA	221	50	442	100	SKIN	

WINKEL

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VLE	PRT	221	50	442	100	SKIN		
NDS/NDSCh	POL	100		200		SKIN		
WEL	GBR	220	50	441	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH		434	100	651	150			
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				327	μg	/I		
Normal value in marine water				327	μg	/I		
Normal value for fresh water se	ediment			12,46	mç	g/kg/d		
Normal value for marine water	sediment			12,46	mç	g/kg/d		
Normal value of STP microorg	anisms			6,58	mç	g/l		
Normal value for the terrestrial	compartment			2,31	mg	g/kg/d		
Health - Derived no-effec	t level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,6 mg/kg		systemic		Systemic
Inhalation				bw/d 14,8 mg/m3			289 mg/m3	77 mg/m3
Skin				108 mg/kg				180 mg/kg
				bw/d				bw/d
Propane								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
Туре	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks Observat		
	Country DEU		ppm 1000		ppm 4000			
Type AGW MAK		mg/m3		mg/m3				
AGW	DEU	mg/m3 1800	1000	mg/m3 7200	4000			
AGW MAK VLA	DEU	mg/m3 1800	1000 1000	mg/m3 7200	4000			
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoal ł	DEU DEU ESP POL	mg/m3 1800 1800 1800	1000 1000	mg/m3 7200	4000			
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec	DEU DEU ESP POL canes t level - DNEL / L Effects on consumers	mg/m3 1800 1800 1800 DMEL	1000 1000 1000	mg/m3 7200 7200	4000 4000 Effects on workers	Observat	ions	
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec	DEU DEU ESP POL t level - DNEL / I Effects on	mg/m3 1800 1800 1800	1000 1000	mg/m3 7200 7200 Chronic systemic	4000 4000 Effects on			Chronic
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure	DEU DEU ESP POL canes t level - DNEL / L Effects on consumers	mg/m3 1800 1800 1800 DMEL	1000 1000 1000	mg/m3 7200 7200 Chronic systemic 1301 mg/kg	4000 4000 Effects on workers	Observat	ions	
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure Oral	DEU DEU ESP POL canes t level - DNEL / L Effects on consumers	mg/m3 1800 1800 1800 DMEL	1000 1000 1000	mg/m3 7200 7200 Chronic systemic	4000 4000 Effects on workers	Observat	ions	systemic
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure	DEU DEU ESP POL canes t level - DNEL / L Effects on consumers	mg/m3 1800 1800 1800 DMEL	1000 1000 1000	mg/m3 7200 7200 Chronic systemic 1301 mg/kg bw/d	4000 4000 Effects on workers	Observat	ions	systemic 5306 mg/m3
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure Oral Inhalation Skin Butane	DEU DEU ESP POL canes t level - DNEL / L Effects on consumers	mg/m3 1800 1800 1800 DMEL	1000 1000 1000	mg/m3 7200 7200 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg	4000 4000 Effects on workers	Observat	ions	systemic 5306 mg/m3 13964 mg/kg
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure Oral Inhalation Skin	DEU DEU ESP POL canes t level - DNEL / L Effects on consumers	mg/m3 1800 1800 1800 DMEL	1000 1000 1000	mg/m3 7200 7200 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg	4000 4000 Effects on workers	Acute systemic Remarks	ions	systemic 5306 mg/m3 13964 mg/kg
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoalk Health - Derived no-effec Route of exposure Oral Inhalation Skin Butane Threshold Limit Value	DEU DEU ESP POL tilevel - DNEL / I Effects on consumers Acute local	mg/m3 1800 1800 1800 1800 Acute systemic	1000 1000 1000 Chronic local	mg/m3 7200 7200 7200 Chronic systemic 1301 mg/kg bw/d 1137 mg/kg bw/d STEL/15min	4000 4000 Effects on workers Acute local	Acute systemic	ions	systemic 5306 mg/m3 13964 mg/kg
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure Oral Inhalation Skin Butane Threshold Limit Value Type	DEU DEU ESP POL tievel - DNEL / I Effects on consumers Acute local	mg/m3 1800 1800 1800 1800 Acute systemic TWA/8h mg/m3	1000 1000 1000 Chronic local	mg/m3 7200 7200 7200 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d STEL/15min mg/m3	4000 4000 Effects on workers Acute local	Acute systemic Remarks	ions	systemic 5306 mg/m3 13964 mg/kg
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure Oral Inhalation Skin Butane Threshold Limit Value Type AGW	DEU DEU ESP POL t level - DNEL / I Effects on consumers Acute local	mg/m3 1800 1800 1800 1800 0MEL Acute systemic TWA/8h mg/m3 2400	1000 1000 1000 Chronic local	mg/m3 7200 7200 7200 Chronic systemic 1301 mg/kg bw/d 1137 mg/kg bw/d 1377 mg/kg bw/d STEL/15min mg/m3 9600	4000 4000 Effects on workers Acute local	Acute systemic Remarks	ions	systemic 5306 mg/m3 13964 mg/kg
AGW MAK VLA NDS/NDSCh Hydrocarbons, C6, isoall Health - Derived no-effec Route of exposure Oral Inhalation Skin Butane Threshold Limit Value Type	DEU DEU ESP POL tievel - DNEL / I Effects on consumers Acute local	mg/m3 1800 1800 1800 1800 Acute systemic TWA/8h mg/m3	1000 1000 1000 Chronic local	mg/m3 7200 7200 7200 Chronic systemic 1301 mg/kg bw/d 1137 mg/m3 1377 mg/kg bw/d STEL/15min mg/m3	4000 4000 Effects on workers Acute local	Acute systemic Remarks	ions	systemic 5306 mg/m3 13964 mg/kg



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	POL	1900		3000				
WEL	GBR	1450	600	1810	750			
WEL	GBR		4			RESP		
TLV-ACGIH					1000			
Talc Predicted no-effect concer								
Normal value in fresh wate				597,97	mg			
Normal value in marine wa	ater			141,26	mg			
Normal value for fresh wat	ter sediment			31,33	mg	/kg/d		
Normal value for marine w	ater sediment			3,13	mg	/kg/d		
Normal value for water, int	termittent release			597,97	mg	J/I		
Normal value for the atmos	sphere			10	mg	ı/m3		
Health - Derived no-e	ffect level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		160 mg/kg bw/d		systemic 160 mg/kg bw/d		systemic		systemic
Inhalation	1,8 mg/m3	1,08 mg/m3	1,8 mg/m3	1,08 mg/m3	3,6 mg/m3	2,16 mg/m3	3,6 mg/m3	2,16 mg/m3
Skin			2,27 mg/cm2	2,16 mg/kg bw/d			4,54 mg/cm2	43,2 mg/kg bw/d
Aluminium Powder (s Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio		
		mg/m3	ppm	mg/m3	ppm	Observatio	0115	
VLA	ESP	10						
	ESP FRA	10 5						
VLEP						INHAL		
VLEP	FRA	5 2,5				INHAL		
VLEP NDS/NDSCh NDS/NDSCh	FRA POL POL	5 2,5 1,2				RESP		
WEL	FRA POL POL GBR	5 2,5 1,2 10				RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL	FRA POL POL	5 2,5 1,2 10 4	0.9			RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH	FRA POL POL GBR GBR	5 2,5 1,2 10	0,9			RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer	FRA POL POL GBR GBR	5 2,5 1,2 10 4	0,9			RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate	FRA POL POL GBR GBR ntration - PNEC	5 2,5 1,2 10 4	0,9	VND		RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa	FRA POL POL GBR GBR ntration - PNEC er ater	5 2,5 1,2 10 4	0,9	VND		RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa	FRA POL POL GBR GBR ntration - PNEC er ater ter sediment	5 2,5 1,2 10 4	0,9	VND VND		RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa Normal value for fresh wate	FRA POL POL GBR GBR ntration - PNEC er ater ter sediment vater sediment	5 2,5 1,2 10 4	0,9	VND VND VND		RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa Normal value for fresh wat Normal value for marine wa	FRA POL POL GBR GBR ntration - PNEC er ater ter sediment rater sediment rater sediment termittent release	5 2,5 1,2 10 4	0,9	VND VND VND VND		RESP INHAL RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa Normal value for fresh wat Normal value for marine wa Normal value for marine water, inf	FRA POL POL GBR GBR ntration - PNEC er ater ter sediment vater sediment termittent release oorganisms	5 2,5 1,2 10 4 1	0,9	VND VND VND VND 20		RESP INHAL RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa Normal value for fresh wat Normal value for marine wa Normal value for marine water, int Normal value of STP micro	FRA POL POL GBR GBR ater ater ter sediment vater sediment termittent release oorganisms chain (secondary poisor	5 2,5 1,2 10 4 1	0,9	VND VND VND VND 20 VND	mg	RESP INHAL RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa Normal value for fresh wat Normal value for marine wa Normal value for marine water, int Normal value of STP micro	FRA POL POL GBR GBR ater ater ter sediment vater sediment termittent release oorganisms chain (secondary poisor	5 2,5 1,2 10 4 1	0,9	VND VND VND 20 VND VND		RESP INHAL RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa Normal value in marine wa Normal value for fresh wat Normal value for marine wa Normal value for ster, int Normal value for the terres Normal value for the terres Normal value for the terres	FRA POL POL GBR GBR ater er ater ter sediment ter sediment termittent release oorganisms chain (secondary poisor strial compartment sphere	5 2,5 1,2 10 4 1	0,9	VND VND VND VND 20 VND		RESP INHAL RESP		
VLEP NDS/NDSCh NDS/NDSCh WEL WEL TLV-ACGIH Predicted no-effect concer Normal value in fresh wate Normal value in marine wa	FRA POL POL GBR GBR ater er ater ter sediment ter sediment termittent release oorganisms chain (secondary poisor strial compartment sphere	5 2,5 1,2 10 4 1	0,9	VND VND VND 20 VND VND	Effects on workers	RESP INHAL RESP		

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						NPI		3,95 mg/kg bw/d
nhalation						NPI	3,72 mg/m3	3,72 mg/m3
sobutyl acetate Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	300	62	600 (C)	124 (C)			
VLA	ESP	724	150					
VLEP	FRA	710	150	940	200			
NDS/NDSCh	POL	240		720				
WEL	GBR	724	150	903	187			
OEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				170	μg			
Normal value in marine water				17	μg			
Normal value for fresh water				877		/kg/d		
Normal value for marine wate				87,7		/kg/d		
Normal value of STP microor	0			200	mg			
Normal value for the terrestria	•			75,5	μg	/kg/d		
Health - Derived no-effe	ct level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		5 mg/kg bw/d		5 mg/kg bw/d		oyotonno		oyotonno
Orai		o mg/kg bw/d		o mg/kg bw/d				
	300 mg/m3		35,7 mg/m3	35,7 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	300 mg/m3
Inhalation	300 mg/m3 NPI	5 mg/kg bw/d	35,7 mg/m3 NPI		600 mg/m3 NPI	600 mg/m3 10 mg/kg bw/d	300 mg/m3 NPI	300 mg/m3 10 mg/kg bw/d
Inhalation Skin Isobutane				35,7 mg/m3		10 mg/kg		10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value				35,7 mg/m3		10 mg/kg	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type	NPI	5 mg/kg bw/d		35,7 mg/m3 5 mg/kg bw/d		10 mg/kg bw/d Remarks /	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type	NPI	5 mg/kg bw/d	NPI	35,7 mg/m3 5 mg/kg bw/d STEL/15min	NPI	10 mg/kg bw/d Remarks /	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type TLV-ACGIH Hydrocarbons, C10-C13	NPI Country	5 mg/kg bw/d TWA/8h mg/m3	NPI	35,7 mg/m3 5 mg/kg bw/d STEL/15min	NPI	10 mg/kg bw/d Remarks /	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type TLV-ACGIH Hydrocarbons, C10-C13 Predicted no-effect concentra	NPI Country	5 mg/kg bw/d TWA/8h mg/m3	NPI	35,7 mg/m3 5 mg/kg bw/d STEL/15min mg/m3	NPI	10 mg/kg bw/d Remarks /	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type TLV-ACGIH Hydrocarbons, C10-C13 Predicted no-effect concentra	NPI Country	5 mg/kg bw/d TWA/8h mg/m3	NPI	35,7 mg/m3 5 mg/kg bw/d STEL/15min	NPI	10 mg/kg bw/d Remarks /	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type TLV-ACGIH Hydrocarbons, C10-C13 Predicted no-effect concentra Normal value for the atmosph Zinc Powder (stabilised)	NPI Country 5, n-alkanes, isoal ation - PNEC	5 mg/kg bw/d TWA/8h mg/m3	NPI	35,7 mg/m3 5 mg/kg bw/d STEL/15min mg/m3	NPI	10 mg/kg bw/d Remarks /	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type TLV-ACGIH Hydrocarbons, C10-C13 Predicted no-effect concentra Normal value for the atmosph Zinc Powder (stabilised) Threshold Limit Value	NPI Country 5, n-alkanes, isoal ation - PNEC	5 mg/kg bw/d TWA/8h mg/m3	NPI	35,7 mg/m3 5 mg/kg bw/d STEL/15min mg/m3	NPI	10 mg/kg bw/d Remarks / Observatio	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type TLV-ACGIH Hydrocarbons, C10-C13 Predicted no-effect concentra Normal value for the atmosph Zinc Powder (stabilised) Threshold Limit Value	NPI Country s, n-alkanes, isoal ation - PNEC here	5 mg/kg bw/d TWA/8h mg/m3 kanes, cyclics, <	NPI	35,7 mg/m3 5 mg/kg bw/d STEL/15min mg/m3	NPI	10 mg/kg bw/d Remarks / Observatio	NPI	10 mg/kg
Inhalation Skin Isobutane Threshold Limit Value Type TLV-ACGIH Hydrocarbons, C10-C13 Predicted no-effect concentra Normal value for the atmosph Zinc Powder (stabilised) Threshold Limit Value Type MAK	NPI Country s, n-alkanes, isoal ation - PNEC here	5 mg/kg bw/d TWA/8h mg/m3 kanes, cyclics, <	NPI ppm 800 2% aromatics	35,7 mg/m3 5 mg/kg bw/d STEL/15min mg/m3	NPI	10 mg/kg bw/d Remarks / Observatio	NPI	10 mg/kg



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ormal value in fresh water				20,6	μg	/I		
Normal value in marine water	r			6,1	μg	/I		
Normal value for fresh water	sediment			117,8	mg	J/kg/d		
Normal value for marine wate	er sediment			56,5	mç	J/kg/d		
Normal value of STP microor	ganisms			100	μg	/I		
Normal value for the terrestria	al compartment			35,6	mç	J/kg/d		
Health - Derived no-effe	ct level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		NPI		systemic 830 µg/kg bw/d		systemic		systemic
Inhalation	NPI	NPI	NPI	2,5 mg/m3	NPI	NPI	NPI	5 mg/m3
Skin	NPI	NPI	NPI	83 mg/kg/d	NPI	NPI	NPI	83 mg/kg bw/d
Zinc oxide Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
MAK	DEU	2		4		INHAL		
MAK	DEU	0,1		0,4		RESP		
VLA	ESP	2		10				
VLEP	FRA	5						
NDS/NDSCh	POL	5		10		INHAL		
TLV-ACGIH		2		10				
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				20,6	μg	//		
Normal value in marine water	r			6,1	μg	/I		
Normal value for fresh water	sediment			117,8	mç	J/kg/d		
Normal value for marine wate	er sediment			56,5	mg	J/kg/d		
Normal value of STP microor	ganisms			100	μg	/I		
Normal value for the terrestria	al compartment			35,6	mg	J/kg/d		
Normal value for the atmosph	nere			NPI				
Health - Derived no-effe	ct level - DNEL / C Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	NPI	NPI	NPI	830 µg/kg bw/d		0,0001110		e jotonno
Inhalation	NPI	NPI	NPI	2,5 mg/m3	NPI	NPI	500 µg/m3	5 mg/m3
Skin	NPI	NPI	NPI	83 mg/kg bw/d	NPI	NPI	NPI	83 mg/kg bw/d
Quartz Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP		0,05			RESP		



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VLEP	FRA	0,1	RESP
VLEP	ITA	0,1	RESP
NDS/NDSCh	POL	0,1	RESP
OEL	EU	0,1	RESP
TLV-ACGIH		0,025	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION None required.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387). Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	aerosol
Colour	aluminum / light gray
Odour	characteristic of solvent
Odour threshold	Not available
рН	Not available



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Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	< 0 °C
Evaporation Rate	Not available
Flammability of solids and gases	flammable gas
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,70 ÷ 0,74 g/ml a 20°C
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	not applicable
Oxidising properties	not applicable
9.2. Other information	

VOC (Directive 2004/42/EC) : 76,50 % - 550,00 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Isobutyl acetate

Decomposes under the effect of heat.Attacks various types of plastic materials.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Xylene (mixture of isomers)

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

Aluminium Powder (stabilised)



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Develops hydrogen on contact with: water.

Develops hydrogen on contact with: acids,alkalis,halogens,oxidising agents.

Isobutyl acetate

Risk of explosion on contact with: strong oxidising agents. May react violently with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

Zinc Powder (stabilised)

Risk of explosion on contact with: ammonium nitrate,ammonium sulphide,barium peroxide,lead nitride,chlorates,chromium trioxide,sodium hydroxide,oxidising agents,performic acid,acids,tetrachloromethane,water.May react dangerously with: alkaline hydroxides,bromine pentafluoride,calcium chloride,fluorine,hexachloroethane,nitrobenzene,potassium dioxide,carbon disulphide,silver.Reacts with: strong acids,strong alkalis.May develop: hydrogen.

10.4. Conditions to avoid

Avoid overheating.

Isobutyl acetate

Avoid exposure to: sources of heat, naked flames.

Zinc Powder (stabilised)

Avoid exposure to: heat, moisture.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

Isobutyl acetate

Incompatible with: strong oxidants,nitrates,strong acids,strong bases.

Zinc Powder (stabilised)

Incompatible with: water,acids,strong alkalis.

10.6. Hazardous decomposition products

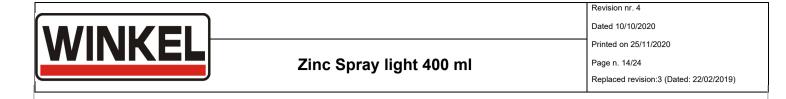
Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological

11.1. Information on toxicological effects

effects of exposure to the product.



Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Xylene (mixture of isomers)

WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Xylene (mixture of isomers)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

Xylene (mixture of isomers)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l ATE (Oral) of the mixture: Not classified (no significant component) ATE (Dermal) of the mixture: >2000 mg/kg

Petroleum Resins

LD50 (Oral) 2000 mg/kg

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

LD50 (Oral) > 5000 mg/kg bw rat

LD50 (Dermal) 2000 mg/kg bw rat

LC50 (Inhalation) > 4 mg/l/4h rat

Aluminium Powder (stabilised)

LD50 (Oral) > 15000 mg/kg bw rat

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LC50 (Inhalation) 888 mg/m3/4h rat

Zinc Powder (stabilised)

LD50 (Oral) > 2000 mg/kg bw rat

Xylene (mixture of isomers)

LD50 (Oral) > 3000 mg/kg rat

LD50 (Dermal) > 1700 mg/kg rabbit

LC50 (Inhalation) 5000 ppm/4h rat

Butane

LC50 (Inhalation) > 1442,738 mg/l/15min rat

Propane

LC50 (Inhalation) 800000 ppm 15 min

Isobutyl acetate

LD50 (Oral) 13413 mg/kg bw rat

LD50 (Dermal) 17400 mg/kg bw rabbit

LC50 (Inhalation) 30 mg/l/6h rat

Hydrocarbons, C6, isoalkanes

LD50 (Oral) > 2000 mg/kg bw rat

LD50 (Dermal) > 2000 mg/kg bw rabbit

LC50 (Inhalation) > 25 mg/l/4h air (rat)

Isobutane

LC50 (Inhalation) > 1442,738 mg/l/15min rat

SKIN CORROSION / IRRITATION

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Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Xylene (mixture of isomers)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. 12.1. Toxicity

Petroleum Resins EC50 - for Crustacea EC50 - for Algae / Aquatic Plants

100 mg/l/48h 100 mg/l/72h

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics



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Chronic NOEC for Algae / Aquatic Plants	1000 mg/l 72 hours
Aluminium Powder (stabilised)	
LC50 - for Fish	> 78 µg/l/96h
EC50 - for Crustacea	1,5 mg/l/48h
EC50 - for Algae / Aquatic Plants	16,9 µg/l
Chronic NOEC for Fish	25,1 μg/l 7 days
Chronic NOEC for Crustacea	5 µg/l 48 h
Chronic NOEC for Algae / Aquatic Plants	45,7 mg/l 4 days
Zinc Powder (stabilised)	
LC50 - for Fish	112 μg/l/96h
EC50 - for Crustacea	155 μg/l/48h
Chronic NOEC for Fish	720 μg/l 84 days
Chronic NOEC for Crustacea	300 μg/l 3 months
Chronic NOEC for Algae / Aquatic Plants	20 μg/l 4 days
Xylene (mixture of isomers)	
LC50 - for Fish	2,6 mg/l/96h
EC50 - for Algae / Aquatic Plants	4,6 mg/l/72h
EC10 for Crustacea	1,9 mg/l/21d
Chronic NOEC for Fish	1,3 mg/l 56 days
Chronic NOEC for Crustacea	960 μg/l 7 days
Chronic NOEC for Algae / Aquatic Plants	440 μg/l 73 h
Butane LC50 - for Fish	> 04.44
	> 24,11 mg/l/96h
Propane	
LC50 - for Fish	85,82 mg/l/96h
EC50 - for Crustacea	41,82 mg/l/48h
Isobutyl acetate	
LC50 - for Fish	16,6 mg/l/96h
EC50 - for Crustacea	24,6 mg/l/48h
EC50 - for Algae / Aquatic Plants	321,5 mg/l/72h
Chronic NOEC for Crustacea	23,2 mg/l 21 days
Chronic NOEC for Algae / Aquatic Plants	1505 mg/l 72 h
Hydrocarbons C6 isoalkanos	
Hydrocarbons, C6, isoalkanes LC50 - for Fish	8,41 mg/l/96h
EC50 - for Crustacea	6,4 r mg/l/96h 4,7 mg/l/48h
EC50 - for Algae / Aquatic Plants	4,7 mg/l/46h> 12 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	6,47 mg/l
Childric NOLO IOI Aigae / Aqualic Fiants	0, 4 7 mg/i



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Isobutane		
LC50 - for Fish	> 24,11 mg/l/96h	
12.2. Persistence and degradability		
Propane Global Warming Potential (GWP): 3. Ozone Depletion	n Potential (ODP): 0.	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics Rapidly degradable But failing the 10-day window (100%).		
Aluminium Powder (stabilised)		
Solubility in water	0 mg/l	
Degradability: information not available		
Zinc Powder (stabilised)		
Solubility in water	0,1 - 100 mg/l	
Degradability: information not available		
Xylene (mixture of isomers)		
Solubility in water	146 - 208 mg/L @ 25 °C and pH 7 mg/l	
Rapidly degradable		
Butane		
Solubility in water	0,1 - 100 mg/l	
Rapidly degradable		
Propane		
Solubility in water	0,1 - 100 mg/l	
Rapidly degradable		
Isobutyl acetate		
Solubility in water	1000 - 10000 mg/l	
Rapidly degradable		
Hydrocarbons, C6, isoalkanes		
Rapidly degradable		
Isobutane		
Rapidly degradable 12.3. Bioaccumulative potential		
Vulope (mixture of icomore)		
Xylene (mixture of isomers) Partition coefficient: n-octanol/water	3,12	
BCF	25,9	

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Butane	
Partition coefficient: n-octanol/water	1,09
Propane	
Partition coefficient: n-octanol/water	1,09
Isobutyl acetate	
Partition coefficient: n-octanol/water	2,3
BCF	15,3
12.4. Mobility in soil	
Xylene (mixture of isomers)	
Partition coefficient: soil/water	2,73
Hydrocarbons, C6, isoalkanes	
Partition coefficient: soil/water	1,78

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Product residues are considered hazardous special waste. Do not dispose of in wastewater. Empty cylinders, although completely emptied, should not be dispersed in the environment. The overheated aerosol container at a temperature above 50 °C may burst even if it contains a small gas residue. Waste transport may be subject to ADR. Refer to applicable regulations.

European Waste Catalog (contaminated containers):

Aerosol as a household waste is excluded from the application of the above standard.

The exhausted commercial / industrial aerosol can be classified as: 15.01.10 *: packaging containing residues of dangerous or contaminated substances.

SECTION 14. Transport information



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14.1. UN number

ADR / RID, IMDG, 1950 IATA:

14.2. UN proper shipping name

 ADR / RID:
 AEROSOLS

 IMDG:
 AEROSOLS (Hydrocarbons, C6, isoalkanes)

 IATA:
 AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID:	Class: 2	Label: 2.1	
IMDG:	Class: 2	Label: 2.1	
IATA:	Class: 2	Label: 2.1	×

14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:	Environmentally Hazardous	
IMDG:	Marine Pollutant	

IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:	HIN - Kemler:	Limited Quantities: 1 I	Tunnel restriction code: (D)
	Special Provision: -	_	
IMDG:	EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special Instructions:	A145, A167, A802	

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: P3a-E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

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Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC) :

Special finishes.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information



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Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Gas 1A	Flammable gas, category 1A
Aerosol 1	Aerosol, category 1
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 1	Flammable solid, category 1
Water-react. 2	Substance or mixture which in contact with water emits flammable gas, category 2
Press. Gas	Pressurised gas
Press. Gas (Liq.)	Liquefied gas
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic toxicity, category 4
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H280	Contains gas under pressure; may burst if heated.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
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.
H413	May cause long lasting harmful effects to aquatic life.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND: - ADR: European Agreement concerning the carriage of Dangerous goods by Road - CAS NUMBER: Chemical Abstract Service Number



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- CE50: Effective concentration (required to induce a 50% effect)	
- CE NUMBER: Identifier in ESIS (European archive of existing substances)	
- CLP: EC Regulation 1272/2008	
- DNEL: Derived No Effect Level	
- EmS: Emergency Schedule	
- GHS: Globally Harmonized System of classification and labeling of chemicals	
- IATA DGR: International Air Transport Association Dangerous Goods Regulation	
- IC50: Immobilization Concentration 50% - IMDG: International Maritime Code for dangerous goods	
- IMDG: International Maritime Organization	
- INDEX NUMBER: Identifier in Annex VI of CLP	
- LC50: Lethal Concentration 50%	
- LD50: Lethal dose 50%	
- OEL: Occupational Exposure Level	
- PBT: Persistent bioaccumulative and toxic as REACH Regulation	
- PEC: Predicted environmental Concentration	
- PEL: Predicted exposure level	
- PNEC: Predicted no effect concentration	
- REACH: EC Regulation 1907/2006 - RID: Regulation concerning the international transport of dangerous goods by train	
- RID. Regulation concerning the international transport of dangerous goods by train	
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.	
- TWA STEL: Short-term exposure limit	
- TWA: Time-weighted average exposure limit	
- VOC: Volatile organic Compounds	
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation	
- WGK: Water hazard classes (German).	
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Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version l	looro must verify the suitebility and
The information contained in the present sheet are based on our own knowledge on the date of the last version. I thoroughness of provided information according to each specific use of the product.	use is must verily the suitability and
This document must not be regarded as a guarantee on any specific product property.	
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comp	ly with the current health and safety
laws and regulations. The producer is relieved from any liability arising from improper uses.	,
Provide appointed staff with adequate training on how to use chemical products.	
CALCULATION METHODS FOR CLASSIFICATION	
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex	I, Part 2. The data for evaluation of
chemical-physical properties are reported in section 9.	
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determin	
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless of	aeterminea otherwise in Section 12.



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