1268/ISA - SPRAYS - ANTIDESLIZANTE 400 ml ISAVAL

Revision nr. 13

Dated 10/10/2020

Printed on 24/11/2020

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Replaced revision:12 (Dated: 25/02/2019)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: I268/ISA

Product name SPRAYS - ANTIDESLIZANTE 400 ml ISAVAL

UFI: **6690-30G9-R009-FK1E**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Anti-slip for aerosol surfaces.

Identified Uses	Industrial	Professional	Consumer
Consumer	-	-	✓
Industrial Use	~	-	-
Professional Use	-	✓	-

1.3. Details of the supplier of the safety data sheet

Name AMBRO-SOL S.R.L.

Full address Via per Pavone del Mella n.21

District and Country 25020 Cigole (BS)

Italia

Tel. +39 030 9959674 Fax +39 030 959265

e-mail address of the competent person

responsible for the Safety Data Sheet quality@ambro-sol.com

1.4. Emergency telephone number

For urgent inquiries refer to Centro Antiveleni di Pavia: Tel. (+39) 0382-24444 (IRCCS Fondazione Maugeri - Pavia)

Centro Antiveleni di Bergamo: Tel. 800 883300 (Ospedale Papa Giovanni XXIII -

Bergamo)

Centro Antiveleni di Firenze: Tel. 055 7947819 (Ospedale Careggi - Firenze) Centro Antiveleni di Roma: Tel. 06 3054 343 (Policlinico Gemelli - Roma) Centro Antiveleni di Napoli: Tel. 081 5453333 (Ospedale Cardarelli - Napoli)

Servicio de Información Toxicológica (SIT) España: Tel. 91 5620420 (Instituto Nacional

de Toxicología y Ciencias Forenses - España)

Centro de Informação Antivenenos (CIAV): Tel. 800 250 250 (Instituto Nacional de

Emergência Médica - Portugal)

Centre Antipoison de Paris: Tel. 01 40 05 48 48 (Centre Antipoison et de

Toxicovigilance de Paris - France)

Pomorskie Centrum Toksykologii: Tel. (58) 682 04 04 (Zakład Toksykologii Klinicznej -

Polska)

American Association of Poison Control Centers (USA): Tel. +1 (800) 222 1222

Giftnotrufzentralen (Berlin, Deutschland): Tel. +49 030 19 240

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:

Aerosol, category 1 H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

Eye irritation, category 2 H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness.

2.2. Label elements

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

Hazard pictograms:





Signal words: Danger

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

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

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

P211 Do not spray on an open flame or other ignition source.

P102 Keep out of reach of children.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains: Acetone

N-butyl acetate

VOC (Directive 2004/42/EC) :

Special finishes.

VOC given in g/litre of product in a ready-to-use condition: 674,21 Limit value: 840,00

2.3. Other hazards

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

Powders can create explosive mixtures with the air.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

Acetone

CAS 67-64-1 $39 \le x < 43$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 200-662-2 INDEX 606-001-00-8

Reg. no. 01-2119471330-49-XXXX

Propane

CAS 74-98-6 $19 \le x < 23$ 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

N-butyl acetate

CAS 123-86-4 $15 \le x < 19$ Flam. Lig. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1 INDEX 607-025-00-1

Reg. no. 01-2119485493-29-XXXX

Butane

CAS 106-97-8 $9 \le x < 11$ Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to

Annex VI to the CLP Regulation: C U

EC 203-448-7

INDEX 601-004-00-0

Reg. no. 01-2119474691-32-XXXX

2-Butoxyethanol

CAS 111-76-2 $1 \le x < 3$ Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit. 2 H315

EC 203-905-0

INDEX 603-014-00-0

Reg. no. 01-2119475108-36-XXXX

Isobutane

CAS 75-28-5 $1 \le x < 3$ Flam. Gas 1A H220, Press. Gas H280

EC 200-857-2

INDEX 601-004-00-0

Reg. no. 01-2119485395-27-XXXX

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.

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Percentage of propellants: 30,50 %

SECTION 4. First aid measures

4.1. Description of first aid measures

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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.

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.

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6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

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.

Avoid dust formation. Ensure adequate ventilation and dust recovery at the defects of the equipment. In the case of heat treatment, provide for the suction of vapors or adequate ventilation.

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	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques 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

ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r

Polska United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018)

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

2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2020**

Acetone

POL

GBR

Threshold Limit Value

OEL EU

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Туре	Country	TWA/8h		STEL/15min		Remarks / Observatio		
		mg/m3	ppm	mg/m3	ppm	0000174110	110	
AGW	DEU	1200	500	2400 (C)	1000 (C)			
MAK	DEU	1200	500	2400	1000			
VLEP	FRA	1210	500	2420	1000			
VLEP	ITA	1210	500					
VLE	PRT	1210	500					
NDS/NDSCh	POL	600		1800				
WEL	GBR	1210	500	3620	1500			
OEL	EU	1210	500					
TLV-ACGIH			250		500			
Predicted no-effect concentration	- PNEC							
Normal value in fresh water				10,6	mç	g/l		
Normal value in marine water				1,06	mç	g/l		
Normal value for fresh water sedi	ment			30,4	mç	g/kg		
Normal value for marine water se	diment			3,04		g/kg		
Normal value for water, intermitte				21	mç			
Normal value of STP microorgani				100	mg			
Normal value for the food chain (s	secondary poisor	ning)		29,5	mg	g/kg		
Normal value for the terrestrial co				29,5		g/kg/d		
Normal value for the atmosphere	'			NPI				
Health - Derived no-effect le	evel - DNFI / I	OMFI						
Ticaliti Belived no ellect i	Effects on consumers	J.W.C.C			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	62 mg/kg				
Inhalation			VND	200 mg/m3	VND	2,420 mg/m3	VND	1,210 mg/m
Skin			VND	62 mg/kg			VND	186 mg/kg
Propane Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observatio	ns	
AGW	DEU	1800	1000	7200	4000			
MAK	DEU	1800	1000	7200	4000			
VLA	ESP		1000					
NDS/NDSCh	POL	1800						
	· 							
N-butyl acetate Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observatio	ns	
	DEU	300	62	600 (C)	124 (C)			
AGW	DLU	300	02	000 (0)	124 (0)			
AGW VLA	ESP	724	150	965	200			

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SKIN

SKIN

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VLEP	FRA	710	150	940	200			
	POL		150		200			
NDS/NDSCh		240	450	720	200			
WEL	GBR	724	150	966	200			
OEL	EU	241	50	723	150			
TLV-ACGIH			50		150			
Predicted no-effect concentrati	on - PNEC							
Normal value in fresh water				180	μд	/I		
Normal value in marine water				18	μд	/I		
Normal value for fresh water se	ediment			981	μg	/kg/d		
Normal value for marine water	sediment			98,1	μд	/kg/d		
Normal value of STP microorga	anisms			35,6	mç	g/l		
Normal value for the terrestrial	compartment			90,3	μд	/kg/d		
Health - Derived no-effec	Effects on	DMEL			Effects on workers			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		2 mg/kg bw/d		systemic 2 mg/kg bw/d		systemic 2		systemic 2
Inhalation	300 mg/m3	300 mg/m3	35,7 mg/m3	12 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	48 mg/m3
Skin	NPI	6 mg/kg bw/d	NPI	3,4 mg/kg bw/d	NPI	11 mg/kg bw/d	NPI	7 mg/kg bw/c
Butane Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm	Observati	0113	
AGW	DEU	2400	1000	9600	4000			
MAK	DEU	2400	1000	9600	4000			
VLA	ESP		1000				Gases	
VLEP	FRA	1900	800					
NDS/NDSCh	POL	1900		3000				
WEL	GBR	1450	600	1810	750			
WEL	GBR		4			RESP		
TLV-ACGIH					1000			
2-Butoxyethanol Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	49	10	98 (C)	20 (C)	SKIN		
MAK VLA	DEU ESP	49 98	10 20	98 245	20 50	SKIN SKIN	Hinweis	<u> </u>
						SKIN		
VLEP	FRA	49	10	246	50			
VLEP	ITA	98	20	246	50	SKIN		

VLE

WEL

NDS/NDSCh

PRT

POL

GBR

98

98

123

20

25

246

200

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OEL	EU	98	20	246	50	SKIN	
TLV-ACGIH		97	20				
Predicted no-effect concen	tration - PNEC						
Normal value in fresh wate	r			8,8	mį	g/l	
Normal value in marine water				880	μg/l		
Normal value for fresh water	er sediment			34,6	mį	g/kg/d	
Normal value for water, into	ermittent release			9,1	mį	g/l	
Normal value of STP microorganisms				463	mg/l		
Normal value for the food chain (secondary poisoning)			20	mį	g/kg		
Normal value for the terrestrial compartment				2,33	m	g/kg/d	

Health - Derived no-ef	fect level - DNEL / [OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3	NPI	59 mg/m3	246 mg/m3	1091 mg/m3	NPI	98 mg/m3
Skin	VND	89 mg/kg bw/d	NPI	75 mg/kg bw/d	VND	89 mg/kg bw/d	NPI	125 mg/kg bw/d

Isobutane Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH			800			

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.

Powder limit: Inhalable particulate control parameters: 10 mg / m3 (Time-Weighted Medium (TWA) :(IT OEL)); Respiratory control parameters: 3 mg / m3 (TWA) :(IT OEL)).

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 I 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.

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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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance aerosol
Colour colourless

Odour characteristic of solvent

Odour threshold Not available рΗ Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available < 0 °C Flash point Not available **Evaporation Rate** Flammability of solids and gases flammable gas Lower inflammability limit Not available Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Vapour pressure Not available

Relative density $0.71 \div 0.75 \text{ g/ml a } 20^{\circ}\text{C}$

Solubility insoluble

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

Vapour density

VOC (Directive 2004/42/EC) : 92,36 % - 674,21 g/litre Usage temperature -10°C / +150°C (Picchi 170°

C)

Not available

Others Superfici idonee: metallo,

ferro, plastica, acciaio, pietre

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SECTION 10. Stability and reactivity

10.1. Reactivity

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

N-butyl acetate

Decomposes on contact with: water.

2-Butoxyethanol

Decomposes under the effect of heat.

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.

Acetone

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

N-butyl acetate

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

2-Butoxyethanol

May react dangerously with: aluminium,oxidising agents. Forms peroxides with: air.

10.4. Conditions to avoid

Avoid overheating.

Acetone

Avoid exposure to: sources of heat,naked flames.

N-butyl acetate

Avoid exposure to: moisture, sources of heat, naked flames.

2-Butoxyethanol

Avoid exposure to: sources of heat,naked flames.

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10.5. Incompatible materials

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

Acetone

Incompatible with: acids,oxidising substances.

N-butyl acetate

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

2-Butoxyethanol

Keep away from: strong oxidants.

10.6. Hazardous decomposition products

Acetone

May develop: ketenes, irritant substances.

2-Butoxyethanol

May develop: hydrogen.

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 effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

N-butyl acetate

WORKERS: inhalation; contact with the skin.

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

N-butyl acetate

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

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Interactive effects

N-butyl acetate

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

Butane

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

Propane

LC50 (Inhalation) 800000 ppm 15 min

2-Butoxyethanol

LD50 (Oral) > 1000 mg/kg bw guinea pig

LD50 (Dermal) > 400 mg/kg bw rabbit

LC50 (Inhalation) > 400 ppm/4h rat

Acetone

LD50 (Oral) 5800 mg/kg bw

LD50 (Dermal) 7426 mg/kg bw guinea pig

LC50 (Inhalation) > 20 mg/l/4h air

N-butyl acetate

LD50 (Oral) > 10000 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg rabbit

LC50 (Inhalation) 0,74 mg/l/4h Rat

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Isobutane

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

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

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

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

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

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Butane

LC50 - for Fish > 24,11 mg/l/96h

Propane

LC50 - for Fish 85,82 mg/l/96h EC50 - for Crustacea 41,82 mg/l/48h

2-Butoxyethanol

LC50 - for Fish 1,474 g/l

EC50 - for Crustacea 1,55 g/l

EC50 - for Algae / Aquatic Plants 911 mg/l/72h

EC10 for Crustacea 134 mg/l 21 days

Chronic NOEC for Fish 100 mg/l 21 days

Chronic NOEC for Crustacea 100 mg/l 21 days

Chronic NOEC for Algae / Aquatic Plants 88 mg/l 72 h

Acetone

 LC50 - for Fish
 6,83 g/l

 EC50 - for Crustacea
 8,8 g/l/48h

 Chronic NOEC for Crustacea
 1,659 g/l 28 days

N-butyl acetate

LC50 - for Fish 18 mg/l/96h
EC50 - for Crustacea 32 mg/l/48h
EC50 - for Algae / Aquatic Plants 246 mg/l/72h
Chronic NOEC for Crustacea 23,2 mg/l 21 days
Chronic NOEC for Algae / Aquatic Plants 105 mg/l 72 h

Isobutane

LC50 - for Fish > 24,11 mg/l/96h

12.2. Persistence and degradability

Propane

Global Warming Potential (GWP): 3. Ozone Depletion Potential (ODP): 0.

Butane

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

Propane

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

2-Butoxyethanol

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

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Acetone

Rapidly degradable

N-butyl acetate

Solubility in water 5,3 g/l

Rapidly degradable

Isobutane

Rapidly degradable

12.3. Bioaccumulative potential

Butane

Partition coefficient: n-octanol/water 1,09

Propane

Partition coefficient: n-octanol/water 1,09

2-Butoxyethanol

Partition coefficient: n-octanol/water 0.81

Acetone

Partition coefficient: n-octanol/water -0,23 BCF 3

N-butyl acetate

Partition coefficient: n-octanol/water 2,3 BCF 15,3

12.4. Mobility in soil

N-butyl acetate

Partition coefficient: soil/water < 3

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 ≥ than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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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.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG,

1950

IATA:

14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS

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: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: --

Limited Quantities: 1 Tunnel restriction code: (D)

Special Provision: -

IMDG: EMS: F-D, S-U

Limited Quantities: 1

L

IATA: Cargo:

Maximum Packaging quantity: 150 instructions:

203

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Pass.:

Maximum quantity: 75

Kg

Special Instructions:

A145, A167, A802

Packaging instructions: 203

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

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

Product

Point

Substances in Candidate List (Art. 59 REACH)

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

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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

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

SECTION 16. Other information

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

Press. Gas Pressurised gas
Press. Gas (Liq.) Liquefied gas

Acute Tox. 4 Acute toxicity, category 4

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

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.

H280 Contains gas under pressure; may burst if heated.

H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

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
- 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
- IMO: 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

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- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- 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).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

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, comply 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 determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Contains: powder for polyamide based coating.

Changes to previous review:

The following sections were modified:

01.