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Safety Data Sheet According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: A0023 Product name **BRONZART**

Chemical name and synonym **VERNICE ALCHIDICA MODIFICATA**

YM00-G0JY-X007-9V7N

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use BRONZO METALLICOI PER DECORARE IN AEROSOL.

1.3. Details of the supplier of the safety data sheet

Talken Color Srl Name Full address via Don Milani 15 District and Country 20025 Legnano (Mi)

Italia

Tel. 0331/579100 Fax 0331/579372

e-mail address of the competent person

responsible for the Safety Data Sheet tecnico@talkencolor.it

1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI di Milano-Niguarda Tel 0266101029

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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 2020/878. 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. Pressurised container: may burst if heated. H229 Eye irritation, category 2 H319 Causes serious eye irritation. Skin irritation, category 2 Causes skin irritation. H315 Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness. Hazardous to the aquatic environment, chronic toxicity, Harmful to aquatic life with long lasting effects. H412 category 3

2.2. Label elements

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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.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

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.

P501 Dispose of contents in different containers for steel

P102 Keep out of reach of children.

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

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

Contains: ACETONE

N-BUTYL ACETATE PROPAN-2-OL BUTAN-1-OL

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

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SECTION 3. Composition/information on ingredients

3.2. Mixtures

EC 200-751-6

CAS 71-36-3

REACH Reg. 01-2119484630-38

Contains:

Identification Conc. % Classification (EC) 1272/2008 (CLP) **ACETONE** INDEX 606-001-00-8 28,887 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 EC 200-662-2 CAS 67-64-1 REACH Reg. 01-2119471330-49-**N-BUTYL ACETATE** INDEX 607-025-00-1 4,364 Flam. Liq. 3 H226, STOT SE 3 H336, EUH066 EC 204-658-1 CAS 123-86-4 REACH Reg. 01-2119485493-29 2-BUTOXYETHANOL INDEX 603-014-00-0 4,181 Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315 EC 203-905-0 LD50 Oral: 1200 mg/kg, ATE Inhalation mists/powders: 0,501 mg/l CAS 111-76-2 REACH Reg. 01-2119475108-36-**DIACETONE ALCOHOL** INDEX 603-016-00-1 2,045 Flam. Lig. 3 H226, Eye Irrit. 2 H319, STOT SE 3 H335 EC 204-626-7 CAS 123-42-2 REACH Reg. 01-2119473975-21 **XYLENE** INDEX 601-022-00-9 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, 1,624 STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C ATE Dermal: 1100 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l EC 215-535-7 CAS 1330-20-7 REACH Reg. 01-2119488216-32-XXX PROPAN-2-OL INDEX 603-117-00-0 1,203 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336 EC 200-661-7 CAS 67-63-0 REACH Reg. 01-2119457558-25 **BUTAN-1-OL** INDEX 603-004-00-6 Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, 1.113 STOT SE 3 H335, STOT SE 3 H336

LD50 Oral: 790 mg/kg

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ETHYLBENZENE

INDEX 601-023-00-4 0,217 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

Aquatic Chronic 3 H412

ATE Inhalation mists/powders: 1,5 mg/l

EC 202-849-4 CAS 100-41-4

REACH Reg. 01-2119489370-35-

XXX

NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight ≤ 1 540

g/mol)

INDEX 604-100-00-0 0,036 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10

EC 500-024-6 CAS 9016-45-9

2-METHOXY-1-METHYLETHYL

ACETATE

INDEX 607-195-00-7 0,034 Flam. Liq. 3 H226

0.00016

EC 203-603-9 CAS 108-65-6 **TOLUENE**

INDEX 601-021-00-3

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin

Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9 CAS 108-88-3

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: 47,50 %

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Call a POISON CENTRE / doctor / . . . if you feel unwell.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

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.

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.

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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.

2-METHOXY-1-METHYLETHYL ACETATE

Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

ESP España Límites de exposición profesional para agentes químicos en España 2023

ITA Italia Decreto Legislativo 9 Aprile 2008, n.81

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

OEL EU Directive (EU) 2022/431; 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 2023

ACETONE Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	1210	500					
VLEP	ITA	1210	500					
WEL	GBR	1210	500	3620	1500			
OEL	EU	1210	500					
TLV-ACGIH			250		500			

N-BUTYL ACETAT Threshold Limit Va							
Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	observations.	

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VLA	ESP	241	50	723	150	
VLEP	ITA	241	50	723	150	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH	EU	241	50	123	150	
2-BUTOXYETH	ANOL					
Threshold Limi						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	,
VLA	ESP	98	20	245	50	SKIN
VLEP	ITA	98	20	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			
DIACETONE AL						
Threshold Limi Type	Country	TWA/8h		STEL/15min		Remarks /
,,	,		ppm	mg/m3	ppm	Observations
\/I A	ESD	mg/m3		mg/me	PPIII	
	ESP	241	50			
WEL	ESP GBR		50 50	362	75	
WEL TLV-ACGIH XYLENE	GBR	241	50			
WEL TLV-ACGIH XYLENE Threshold Limi	GBR	241	50 50			Remarks /
WEL TLV-ACGIH XYLENE Threshold Limi	GBR	241 241 238 TWA/8h	50 50 50	362 STEL/15min	75	Remarks / Observations
WEL TLV-ACGIH XYLENE Threshold Limi Type	GBR t Value Country	241 241 238 TWA/8h mg/m3	50 50 50	362 STEL/15min mg/m3	75	Observations
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA	t Value Country ESP	241 241 238 TWA/8h mg/m3 221	50 50 50 50	362 STEL/15min mg/m3 442	75 ppm 100	Observations SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP	t Value Country ESP ITA	241 241 238 TWA/8h mg/m3 221 221	50 50 50 50 ppm 50 50	362 STEL/15min mg/m3 442 442	75 ppm 100 100	Observations SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL	t Value Country ESP ITA GBR	241 241 238 TWA/8h mg/m3 221 221 220	50 50 50 50 50 50 50	362 STEL/15min mg/m3 442 442 441	ppm 100 100	Observations SKIN SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL	t Value Country ESP ITA	241 241 238 TWA/8h mg/m3 221 221	50 50 50 50 ppm 50 50	362 STEL/15min mg/m3 442 442	75 ppm 100 100	Observations SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH	t Value Country ESP ITA GBR	241 241 238 TWA/8h mg/m3 221 221 220	50 50 50 50 50 50 50	362 STEL/15min mg/m3 442 442 441	ppm 100 100	Observations SKIN SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH PROPAN-2-OL	t Value Country ESP ITA GBR EU	241 241 238 TWA/8h mg/m3 221 221 220	50 50 50 50 50 50 50	362 STEL/15min mg/m3 442 442 441	ppm 100 100	Observations SKIN SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH PROPAN-2-OL Threshold Limi	t Value Country ESP ITA GBR EU	241 241 238 TWA/8h mg/m3 221 220 221 TWA/8h	50 50 50 50 50 50 50 50 20	362 STEL/15min mg/m3 442 441 442 STEL/15min	ppm 100 100 100	Observations SKIN SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH PROPAN-2-OL Threshold Limi Type	t Value Country ESP ITA GBR EU t Value Country	241 241 241 238 TWA/8h mg/m3 221 220 221 TWA/8h mg/m3	50 50 50 50 50 50 50 50 20	362 STEL/15min mg/m3 442 442 441 442 STEL/15min mg/m3	ppm 100 100 100 100 ppm	Observations SKIN SKIN SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH PROPAN-2-OL Threshold Limi Type	GBR t Value Country ESP ITA GBR EU t Value Country	241 241 238 TWA/8h mg/m3 221 220 221 TWA/8h mg/m3 500	50 50 50 50 50 50 50 50 50 50 50 50 20 ppm 200	362 STEL/15min mg/m3 442 441 442 STEL/15min mg/m3 1000	ppm 100 100 100 100 ppm 400	Observations SKIN SKIN SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH PROPAN-2-OL Threshold Limi Type VLA WLA WLA WLA WEL WEL WEL WEL W	t Value Country ESP ITA GBR EU t Value Country	241 241 241 238 TWA/8h mg/m3 221 220 221 TWA/8h mg/m3	50 50 50 50 50 50 50 50 50 50 50 50 20 ppm 200 400	362 STEL/15min mg/m3 442 442 441 442 STEL/15min mg/m3 1000 1250	ppm 100 100 100 100 100 100 500	Observations SKIN SKIN SKIN SKIN
VLA WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH PROPAN-2-OL Threshold Limi Type VLA WEL TLV-ACGIH	GBR t Value Country ESP ITA GBR EU t Value Country	241 241 238 TWA/8h mg/m3 221 220 221 TWA/8h mg/m3 500	50 50 50 50 50 50 50 50 50 50 50 50 20 ppm 200	362 STEL/15min mg/m3 442 441 442 STEL/15min mg/m3 1000	ppm 100 100 100 100 ppm 400	Observations SKIN SKIN SKIN SKIN
WEL TLV-ACGIH XYLENE Threshold Limi Type VLA VLEP WEL OEL TLV-ACGIH PROPAN-2-OL Threshold Limi Type VLA WEL	ESP ITA GBR EU t Value Country ESP GBR GBR	241 241 241 238 TWA/8h mg/m3 221 220 221 TWA/8h mg/m3 500 999	50 50 50 50 50 50 50 50 50 50 50 50 20 ppm 200 400	362 STEL/15min mg/m3 442 442 441 442 STEL/15min mg/m3 1000 1250	ppm 100 100 100 100 100 100 500	Observations SKIN SKIN SKIN SKIN

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		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	61	20	154	50		
WEL	GBR			154	50	SKIN	
TLV-ACGIH		61	20				

ETHYLBENZEN	IE								
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
VLA	ESP	441	100	884	200	SKIN			
VLEP	ITA	442	100	884	200	SKIN			
WEL	GBR	441	100	552	125	SKIN			
OEL	EU	442	100	884	200	SKIN			
TLV-ACGIH		87	20						

2-METHOXY-1-METHYLETHYL ACETATE Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	275	50	550	100	SKIN	
VLEP	ITA	275	50	550	100	SKIN	
WEL	GBR	274	50	548	100	SKIN	
OEL	EU	275	50	550	100	SKIN	

Threshold Limit	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP	192	50	384	100	SKIN	
VLEP	ITA	192	50			SKIN	
WEL	GBR	191	50	384	100	SKIN	
OEL	EU	192	50	384	100	SKIN	
TLV-ACGIH			20				

Legend:

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

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.

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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 ISO 16321).

RESPIRATORY PROTECTION

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. Use a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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

Properties	Value	Information
Appearance	aerosol	
Colour	gold	

gold

Odour characteristic of solvent

Melting point / freezing point not available Initial boiling point not applicable

non applicabile per aerosol Flammability

Lower explosive limit not available Upper explosive limit not available Flash point not applicable Auto-ignition temperature not available Decomposition temperature not available not available Kinematic viscosity not available

Solubility solubile in acetone e/o

diluente nitro Partition coefficient: n-octanol/water not available not available Vapour pressure

Density and/or relative density 0,7

Relative vapour density not available Particle characteristics not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 91,93 % - 643,48 g/litre

Explosive properties durante l'uso puo' formare

con l'aria miscele esplosive o

infiammabili

Oxidising properties not applicable

SECTION 10. Stability and reactivity

10.1. Reactivity

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

ACETONE

Decomposes under the effect of heat.

N-BUTYL ACETATE

Decomposes on contact with: water.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

DIACETONE ALCOHOL

Decomposes at temperatures above 90°C/194°F.

BUTAN-1-OL

Attacks various types of plastic materials.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

TOLUENE

Avoid exposure to: light.

10.2. Chemical stability

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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. 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.

DIACETONE ALCOHOL

Risk of explosion on contact with: air,sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids.

XYLENE

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

BUTAN-1-OL

Reacts violently developing heat on contact with: aluminium,strong oxidising agents,strong reducing agents,hydrochloric acid.Forms explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong acids,sulphur.

10.4. Conditions to avoid

Avoid overheating.

ACETONE

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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.

DIACETONE ALCOHOL

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

BUTAN-1-OL

Avoid exposure to: sources of heat, naked flames.

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-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

ACETONE

May develop: ketenes,irritant substances.

2-BUTOXYETHANOL

May develop: hydrogen.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

DIACETONE ALCOHOL

WORKERS: inhalation; contact with the skin.

XYI FNF

WORKERS: inhalation: contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation: contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

2-METHOXY-1-METHYLETHYL ACETATE

WORKERS: inhalation; contact with the skin.

TOLUENE

WORKERS: inhalation; contact with the skin.

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

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.

DIACETONE ALCOHOL

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

XYLENE

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

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

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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).

XYLENE

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.

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

N-BUTYL ACETATE

 $\begin{array}{lll} \mbox{LD50 (Dermal):} & > 5000 \mbox{ mg/kg Rabbit} \\ \mbox{LD50 (Oral):} & > 6400 \mbox{ mg/kg Rat} \\ \mbox{LC50 (Inhalation vapours):} & 21,1 \mbox{ mg/l/4h Rat} \\ \end{array}$

2-BUTOXYETHANOL

LD50 (Oral): 1200 mg/kg Guinea pig LC50 (Inhalation vapours): 3 mg/l/4h Rat ATE (Inhalation mists/powders): 0,501 mg/l

(figure used for calculation of the acute toxicity estimate of the mixture)

DIACETONE ALCOHOL

LD50 (Oral): 4000 mg/kg Rat

XYLENE

LD50 (Dermal): 4350 mg/kg Rabbit

ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

LD50 (Oral): 3523 mg/kg Rat LC50 (Inhalation vapours): 26 mg/l/4h Rat

ATE (Inhalation mists/powders): 25 mg/l 1,5 mg/l

(figure used for calculation of the acute toxicity estimate of the mixture)

PROPAN-2-OL

 LD50 (Dermal):
 12800 mg/kg Rat

 LD50 (Oral):
 4710 mg/kg Rat

 LC50 (Inhalation vapours):
 72,6 mg/l/4h Rat

BUTAN-1-OL

 LD50 (Dermal):
 3400 mg/kg Rabbit

 LD50 (Oral):
 790 mg/kg Rat

 LC50 (Inhalation vapours):
 8000 ppm/4h Rat

ETHYLBENZENE

LD50 (Dermal): 15354 mg/kg Rabbit

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LD50 (Oral): 3500 mg/kg Rat LC50 (Inhalation vapours): 17,2 mg/l/4h Rat

NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight ≤ 1 540 g/mol)

LD50 (Dermal): 1780 mg/kg Rabbit LD50 (Oral): 1310 mg/kg Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rat LD50 (Oral): \$530 mg/kg Rat

TOLUENE

 LD50 (Dermal):
 12124 mg/kg Rabbit

 LD50 (Oral):
 5580 mg/kg Rat

 LC50 (Inhalation vapours):
 28,1 mg/l/4h Rat

SKIN CORROSION / IRRITATION

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

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".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999). 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

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Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

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

Information not available

12.2. Persistence and degradability

NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight ≤ 1 540 g/mol)

Solubility in water > 10000 mg/l

Rapidly degradable

XYLENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

> 10000 mg/l

Rapidly degradable

TOLUÉNE

Solubility in water 100 - 1000 mg/l

Rapidly degradable ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

BUTAN-1-OL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

DIACETONE ALCOHOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable PROPAN-2-OL

Rapidly degradable

ACETONE

Rapidly degradable N-BUTYL ACETATE

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Solubility in water 1000 - 10000 mg/l 12.3. Bioaccumulative potential NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight ≤ 1 540 g/mol) Partition coefficient: n-octanol/water 3,7 **XYLENE** Partition coefficient: n-octanol/water 3,12 BCF 25,9 2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water 1,2 **TOLUENE** Partition coefficient: n-octanol/water 2,73 BCF 90 **ETHYLBENZENE** Partition coefficient: n-octanol/water 3.6 **BUTAN-1-OL** Partition coefficient: n-octanol/water BCF 3,16 2-BUTOXYETHANOL Partition coefficient: n-octanol/water 0,81 DIACETONE ALCOHOL Partition coefficient: n-octanol/water -0,09 PROPAN-2-OL Partition coefficient: n-octanol/water 0,05 **ACETONE** -0,23 Partition coefficient: n-octanol/water BCF 3 N-BUTYL ACETATE Partition coefficient: n-octanol/water 2,3 **BCF** 15,3

12.4. Mobility in soil

Information not available

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. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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 or ID number

ADR / RID, IMDG, IATA: UN 1950

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



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14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID:

IMDG: not marine pollutant

NO

IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: --

Limited Quantities: 1

Tunnel restriction code: (D)

Special provision: 190, 327, 344, 625

IMDG: EMS: F-D. S-U

Limited Quantities: 1

lt

Cargo:

Passengers:

Special provision:

Maximum quantity: 150

7: 150 instructions: 203

Maximum quantity: 75

Packaging instructions: 203

Packaging

A145, A167,

A802

14.7. Maritime transport in bulk according to IMO instruments

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/EU: P3a

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

Product

IATA:

Point 40

Contained substance

Point 75

Point 46a NONYLPHENOL, BRANCHED AND

LINEAR, ETHOXYLATED (with average molecular weight ≤ 1 540

g/mol)

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact 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%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 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.

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

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

Aerosol 1 Aerosol, category 1
Aerosol 3 Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Repr. 2 Reproductive toxicity, category 2

Acute Tox. 3 Acute toxicity, category 3

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 Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2

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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 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H331 Toxic if inhaled. H302 Harmful if swallowed 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.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- 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: Time-weighted average exposure limit

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- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 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 (EU) 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) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 23. Delegated Regulation (UE) 2023/707
- 24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP) 25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
- 26. Delegated Regulation (UE) 2024/197 (XXI 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.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 07 / 08 / 11 / 12 / 13 / 14 / 16.