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

1.1. Product identifier

Product form : Mixture
Trade name : Derbigum DMS Fibers

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Further information: see technical data sheet. TDS Derbigum DMS

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Imperbel N.V./S.A
Bergensesteenweg 32
1651 -Lot, Belgium
Tel.+32 2 334 87 00
Fax:+32 2 378 14 69
info@derbigum.com
www.derbigum.be

1.4. Emergency telephone number

Emergency number : + 32 3 575 55 55 (24h/24h)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified


2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable.

2.3. Other hazards

Other hazards : Could burn but do not ignite readily.

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cellulose	(CAS-No.) 9004-34-6 (EC-No.) 232-674-9	80 – 90	Not classified
Carbonic acid, calcium salt (1:1)	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	10 – 20	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures


Additional advice	: First aider: Pay attention to self-protection!. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance.
Inhalation	: No adverse effects are expected. Provide fresh air. Put victim at rest, cover with a blanket and keep warm. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: No adverse effects are expected. Wash skin with mild soap and water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Eyes contact	: No adverse effects are expected. Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation consult an ophthalmologist.
Ingestion	: No adverse effects are expected. If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

Inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Eyes contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Fire class. A (Fires of solids, mainly organic nature, which normally burn down under glow forming.). Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media : Strong water jet .

5.2. Special hazards arising from the substance or mixture

Specific hazards : Combustible. Evacuate personnel to a safe area.

Explosion hazard : Risk of dust explosion.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Firefighting instructions : Special protective equipment for firefighters. In case of fire: Wear self-contained breathing apparatus.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Provide adequate ventilation. Use personal protective equipment as required. Reference to other sections 8. Evacuate personnel to a safe area. Avoid dust formation. Avoid contact with skin and eyes. Avoid breathing dust or vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

For emergency responders : Avoid dust formation. Self-contained breathing apparatus (EN 133). Reference to other sections 8. Ensure procedures and training for emergency decontamination and disposal are in place.

6.2. Environmental precautions


No special environmental measures are necessary.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Take up mechanically. Avoid dust formation. Do not use a dry brush as dust clouds or static can be created.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . If handled uncovered, arrangements with local exhaust ventilation should be used if possible. It is recommended to design all work processes always so that the following is excluded: Inhalation of dust/particles. Avoid contact with skin and eyes. Measures to prevent aerosol and dust generation : Provide adequate ventilation as well as local exhaust at critical locations. Dust should be exhausted directly at the point of origin. Risk of dust explosion. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Have fire-extinguishers in readiness before opening containers.

Hygiene measures : Use only in area provided with appropriate exhaust ventilation. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Keep good industrial hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Avoid dust formation.

Storage conditions : Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Storage temperature : 5 – 40 °C

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

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage.

Packaging materials : Keep only in the original container.


7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Cellulose (9004-34-6)		
Belgium	OEL TWA	10 mg/m ³
Croatia	GVI (OEL TWA) [1]	10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust)
Croatia	KGVI (OEL STEL)	20 mg/m ³ (total dust, inhalable particles)
Estonia	OEL TWA	10 mg/m ³ (respirable dust)
France	VME (OEL TWA)	10 mg/m ³
Ireland	OEL TWA [1]	10 mg/m ³
Ireland	OEL STEL	30 mg/m ³
Latvia	OEL TWA	2 mg/m ³
Portugal	OEL TWA	10 mg/m ³
Romania	OEL TWA	10 mg/m ³ (dust, inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	10 mg/m ³

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Cellulose (9004-34-6)		
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)
United Kingdom	WEL STEL (OEL STEL)	20 mg/m ³ (inhalable dust) 12 mg/m ³ (calculated-respirable dust)
Switzerland	MAK (OEL TWA) [1]	3 mg/m ³ (respirable dust)
Australia	OES TWA [1]	10 mg/m ³ (containing no asbestos and <1% crystalline silica-inhalable dust)
Canada (Quebec)	VEMP (OEL TWA)	10 mg/m ³ (paper fibres-total dust)
USA - ACGIH	ACGIH OEL TWA	10 mg/m ³
USA - NIOSH	NIOSH REL TWA	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
USA - OSHA	OSHA PEL TWA [1]	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
Carbonic acid, calcium salt (1:1) (471-34-1)		
Croatia	GVI (OEL TWA) [1]	10 mg/m ³ (total dust, inhalable particles) 4 mg/m ³ (respirable dust)
France	VME (OEL TWA)	10 mg/m ³
Latvia	OEL TWA	6 mg/m ³
Poland	NDS (OEL TWA)	10 mg/m ³ (inhalable fraction)
Portugal	OEL TWA	10 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Switzerland	MAK (OEL TWA) [1]	3 mg/m ³ (respirable dust)
Australia	OES TWA [1]	10 mg/m ³ (containing no asbestos and <1% crystalline silica-inhalable dust)
Canada (Quebec)	VEMP (OEL TWA)	10 mg/m ³ (total dust)
USA - NIOSH	NIOSH REL TWA	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)

Additional information

: Personal air monitoring. Room air monitoring


8.2. Exposure controls

Engineering measure(s)

: Provide adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Organisational measures to prevent /limit releases, dispersion and exposure. Reference to other sections 7.

Personal protective equipment

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.


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Hand protection	: Not required for normal conditions of use
Eye protection	: Dust protection eye glasses
Respiratory protection	: In case of dust formation use respirator with filter: P (EN143). full face mask (DIN EN 136). Half-face mask (DIN EN 140) (DIN EN 149). Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Fibres.
Colour	: Grey.
Odour	: odourless.
Odour threshold	: Not applicable
pH	: 6,5 – 8,5
pH solution	: Not available
Relative evaporation rate (butylacetate=1)	: Not applicable.
Melting / freezing point	: Not applicable.
Freezing point	: No data available
Initial boiling point and boiling range	: Not applicable.
Flash point	: Not determined
Auto-ignition temperature	: Not applicable
Decomposition temperature	: ~ 200 °C
Flammability (solid, gas)	: Not relevant
Vapour pressure	: Not applicable.
Vapour density	: Not applicable.
Relative density	: 20 – 45 kg/m ³ Bulk density
Density	: ≈ 1,5 g/cm ³
Solubility	: Fat solubility : insoluble. Water: Insoluble
Partition coefficient n-octanol/water	: Not applicable
Kinematic viscosity	: Not applicable
Dynamic viscosity	: Not applicable
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available 30 – 11000 g/m ³ Dust explosive
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available

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Particle aspect ratio : Not available
 Particle aggregation state : Not available
 Particle agglomeration state : Not available
 Particle specific surface area : Not available
 Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not applicable.
 Other properties : Solvent separation test (%) : not applicable, Solvent content (%) : not relevant
 dust explosive, Dust explosion category : ST 1
 Minimum ignition temperature of a dust cloud (C°) : 400
 Flammability and burning behaviour of dust layers : burning number (BZ) : 5
 Additional information : Minimum ignition energy (mJ) : 30. Minimum ignition temperature of a 5 mm dust layer (glowing temperature) : ≥ 330 °C. Maximum explosion pressure : < 9,5 bar. Kst value : < 200 bar m s⁻¹

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Decomposition temperature ~ 200°C.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products


Burning produces noxious and toxic fumes. Hazardous decomposition products : Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Cellulose (9004-34-6)	
LD50/oral/rat	> 5 g/kg
LD50/dermal/rabbit	> 2000 mg/kg
LC50/inhalation/4h/rat	> 5800 mg/m ³ (Exposure time: 4 h)

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Carbonic acid, calcium salt (1:1) (471-34-1)	
LD50/oral/rat	6450 mg/kg
LD50/dermal/rat	> 2000 mg/kg (OECD 402)
LD50/dermal/rabbit	(OECD 404) Not applicable
LC50/inhalation/4h/rat	> 3 mg/l (OECD 403)

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 6,5 – 8,5
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 6,5 – 8,5
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

Derbigum DMS Fibers	
Kinematic viscosity	Not applicable

Other adverse effects	: No information available.
Other information	: Symptoms related to the physical, chemical and toxicological characteristics. Reference to other sections 4.2.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
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11.2.2 Other information


Other adverse effects	: No information available
Other information	: Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections 4.2

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties	: Ecological injuries are not known or expected under normal use.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Carbonic acid, calcium salt (1:1) (471-34-1)	
LC50 - Fish [1]	> 200 mg/l (Poecilia latipina)

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EC50 - Crustacea [1]	> 1000 ml/l (LC50 for Daphnia magna)
IC50, algae	>14 mg/l (72 hours, EC50 for Desmodesmus subspicatus))

12.2. Persistence and degradability

Derbigum DMS Fibers	
Persistence and degradability	Product is not persistent.

12.3. Bioaccumulative potential

Derbigum DMS Fibers	
Partition coefficient n-octanol/water	Not applicable
Bioaccumulative potential	No indication of bioaccumulation potential.

Carbonic acid, calcium salt (1:1) (471-34-1)	
BCF - Fish [1]	(no bioaccumulation)

12.4. Mobility in soil

Derbigum DMS Fibers	
Mobility in soil	Not relevant
Ecology - soil	No information available.

12.5. Results of PBT and vPvB assessment

Derbigum DMS Fibers	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Results of PBT assessment	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

12.7. Other adverse effects


Additional information : No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contaminated materials in accordance with current regulations. Collect and dispose of waste product at an authorised disposal facility.

Additional information : In accordance with local and national regulations.

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European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : The following Waste Codes are only suggestions:
03 03 99 wastes not otherwise specified
15 01 06 mixed packaging
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable				

14.6. Special precautions for user

Special precautions for user : Not applicable

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : Not applicable.


SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

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Contains no REACH Annex XIV substances

15.1.2. National regulations

France
Installations classées :
Not applicable.

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

Germany

Regulatory reference : WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)
Risk classification according to VbF : Not applicable
German storage class (LGK) : LGK 11 - Combustible solids
Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : B (5) - Weinig schadelijk voor in het water levende organismen : B(4)
Saneringsinspanningen : B - Lozing minimaliseren; toepassen van best uitvoerbare technieken
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed


15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

1	SDS Version (obsolete)	Modified	
1	Issue date	Added	
1.1	Trade name/designation	Modified	
2.3	ED	Added	
3.2	Composition	Modified	

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5.3	Protection during firefighting	Modified	
7.2	Heat and ignition sources	Modified	
7.2	Heat and ignition sources	Modified	
9.1	Appearance	Modified	
9.1	Relative density	Modified	
10	Reactivity	Modified	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.	Trade name/designation	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
12.7	Other adverse effects	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Saneringsinspanning en	Added	
16	Indication of changes	Added	
16	Other information	Modified	
	Information with regard to physical hazard classes	Added	

Abbreviations and acronyms:


	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	EC50 = Median Effective Concentration
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : Manufacturer/Supplier Derbigum. ECHA (European Chemicals Agency). datasheet

Training advice : Training staff on good practice.

Other information : Assessment/classification CLP. Article 9. Calculation method. Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
 Classification according to Regulation (EC) No. 1272/2008 [CLP]

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Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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