




SAFETY DATA SHEET according to Regulation (EU) No. 878/2020				
CERIUM OXIDE				
Revision: 9.00 EU (EN)	Issuing date: 24.11.2024			

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

1.1 Product identifier

Trade name : CERIUM OXIDE
M200/M201 - G200/G201 - HP200/HP201 - M203 - G203 - HP203
HP60 - HP61 - HP62 - HP63 - HP64 - HP65 - HP66 - HP67 - HP68 - HP69 - HP70 - HP71 - HP72 - HP73 - HP74
UFI : G2X2-C00P-V000-WECQ

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

Uses of the Substance/Mixture : Specific use(s) : CLEANER ADDITIVE DISSOLVING

Uses advised against :

Remarks : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : GiPro Srl
Via A.Olivetti 7/9
Riva di Chieri (TO) - Italy
Tel. +39 011 9468873
Fax +39 011 9468841

E- mail address : info@gipro.it

1.4 Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Austria	Umweltbundesamt GmbH / Environment Agency	Spittelauer Laende 5, 1090 Vienna, Austria	+43 664 6210336	
	Gesundheit Österreich GmbH / Vergiftungsinformationszentrale	Stubenring 6, 1010 Wien	+43 1 406 68 98	
Belgium	Centre Antipoisons	c/o Hôpital Militaire Reine Astrid, Rue Bruyn 1, 1120 Bruxelles, Belgium	+32022649636	
Bulgaria	Temporary body - Ministry of Health	St. Nedelya "№ 5, Sofia 1000, Republic of Bulgaria	+359 2 9301214 +359 29301216	
Croatia	Croatian Institute of Public Health, Division for Toxicology	Borongajska 83g, 10000 Zagreb, Croatia	+38514686910	
Cyprus	Ministry of Labour, Welfare and Social Insurance, Department of Labour Inspection	P.O.Box 24855, 1304 Nicosia, Cyprus	+35722405611	
Czech Republic	Ministry of Health of the Czech Republic Chemical Substances and Biocidal Products Unit	Palackého nám. 4, 128 01 Praha 2, Czech Republic	+420 267 082 236 +420 267 082 230 +420 267 082 229	






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Country	Organisation/Company	Address	Emergency number	Comment
Denmark	Danish Environmental Protection Agency	Haraldsgade 53, 2100 København Ø, Denmark	+45 72 54 40 00	
Estonia	Health Board	Paldiski road 81,10617 Tallinn, Estonia	+372 794 3500	
Finland	Finnish Safety and Chemicals Agency (Tukes)	P.O.Box 66 / Opastinsilta 12 B, 00521 Helsinki, Finland	+358 5052 000	
France	French National Products and Composition Database (B.N.P.C.); French Poison and toxicovigilance Centre Network	Centre Antipoison de Nancy, CHU de Nancy, Hôpital Central, 29 avenue du Maréchal de Lattre de Tassigny, 53035 NANCY Cedex France	+ 33 3 83 85 21 92	
Germany	BfR Bundesinstitut für Risikobewertung / German Federal Institute for Risk Assessment	Max-Dohrn-Str. 8-10, 10589 Berlin	+49-30-18412-0	
Greece	Greek National Poison Information Centre, Children's Hospital "P & A Kyriakou", Ministry of Health	Children's Hospital "P & A Kyriakou", 11527 Athens, Greece	+ 30 210 7793777 (available for consultation 24 hours/day, to medical professionals and the public)	
Hungary	National Center for Public Health and Pharmacy	Albert Flórián Street 2-6, H-1097 Budapest, Hungary	+36 (1) 476 1135	
Iceland	Poisons Information Center - Icelandic University Hospital	Fossvogur, Reykjavík, Iceland	+354 543 22 22	
Ireland	National Poisons Information Centre	Beaumont Hospital, Beaumont, Dublin 9., Ireland		
Italy	Istituto Superiore di Sanità (ISS)	Viale Regina Elena 299, Rome, Italy		
Latvia	State Ltd "Latvian Environment, Geology and Meteorology Centre"	Maskavas Street 165, Riga, LV-1019, Latvia	+371 67032600	
Liechtenstein	Gesundheit Österreich GmbH / Vergiftungsinformationszentrale	Stubenring 6, 1010 Wien	+43 1 406 68 98	
Lithuania	Environmental Protection Agency	Juozapavicius st. 9, LT-09311 Vilnius, Lithuania	+370 682 92653	
Luxembourg	Centre Antipoisons (BE) on behalf of Ministère-Direction de la Santé	c/o Hôpital Militaire Reine Astrid, Rue Bruyn 1, 1120 Bruxelles, Belgium Villa Louvigny, Allée Marconi, L-2120 Luxembourg, Luxembourg	+320 22649636 +352 24785551	

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Malta	Malta Competition and Consumer Affairs Authority (MCCAA)	Mizzi House, National Road, Blata l-Bajda HMR9010, Malta	+356 2395 2000	
Netherlands	National Poisons Information Center / University Medical Center Utrecht	PO Box 85500, 3508 GA Utrecht, The Netherlands	+31 88 75 585 61	
Norway	Norwegian Environment Agency	Postboks 5672 Torgarden, 7485 Trondheim, Norway	+47 73 58 05 00	
Poland	Bureau for Chemical Substances	30/34 Dowborczykow Street, 90-019 Lodz, Poland	+48 42 2538 400	
Portugal	Centro de informação antivenenos	Rua Almirante Barroso, 36 1000-013 Lisboa, Portugal	+351213303271	
Romania	The Toxicology Information Center from the Emergency Clinic Hospital of Bucharest	Calea Floreasca No 8, District 1, Bucharest, Romania	+40215992300	
Slovakia	National Toxicological Information Centre	Limbova 5, 833 05 Bratislava, Slovakia	+421 2 5465 2307	
Slovenia	Centre for Clinical Pharmacology and Toxicology, Division of Internal Medicine, University Medical Centre Ljubljana	Zaloška cesta 7, 1525 Ljubljana, Slovenia	+ 386 1 522 1293	
Spain	Instituto Nacional de Toxicología y Ciencias Forenses (INTCF)	Calle José Echegaray 4, 28032 Las Rozas de Madrid, Madrid, Spain	+34 917689800	
Sweden	Swedish Poisons Information Centre	Giftinformationscentrale n 171 76 Stockholm, Sweden	+46104566750	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 The product is not classified as dangerous according to Regulation (EC) no. 1272/2008:

Pictograms:
GHS08



Hazards class codes and categories:
STOT SE 3, REPR. 1B

H - Statements codes:
H304 – May be fatal if swallowed and enters airways.




2.2. Label elements

Label according to Regulation (EC) no. 1272/2008:

Pictograms:
GHS08

H - Statements codes:
H304 – May be fatal if swallowed and enters airways.

Additional H - Statements codes:
Unenforceable

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P - Statements:

Prevention

P201 – Get specific instruction before use

P261 – Avoid inhale steams and fumes

P273 – Avoid release to the environment

P280 – Wear protective gloves/clothing/protect eyes and face

2.3 Other hazards which do not result in classification

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable, this product is a mixture.

3.2 Mixture

Chemical nature : mixture based on
Isoparaffin solvent
Organic compound of Iron

Information on Components and Impurities

Chemical Name	Concentration [%]	Classification	Index	CAS	EINECS	REACH
Additive	> 50 <= 75%	Asp. Tox. 1, H304; STOT SE 3, H336; Repr. 1B, H360; Aquatic Chronic 2, H411				
Hydrocarbons, C11-C15 , Isoalkanes, <2% aromatics	> 30 <= 50%	Asp. Tox. 1, H304	1-211945681 1-4		920-901-0	

SECTION 4: First aid measures

4.1 Description of first aid measures




General advice : Show this safety data sheet to the doctor in attendance.
First aider needs to protect himself.
Place affected clothing in a sealed bag for subsequent decontamination.

If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.

Skin contact : Take off contaminated clothing and shoes immediately.
Wash immediately and thoroughly for a prolonged period (at least 15 minutes).
Wash off with soap and plenty of water.
Call a physician if irritation develops or persists.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a physician

Ingestion : Do NOT induce vomiting.
Vomiting may occur spontaneously

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Rinse mouth with water.
 Risk of product entering the lungs on vomiting after ingestion.
 Lay victim on side.
 Immediate medical attention is required.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures

Flash point : > 60 - 64 °C
 Auto-ignition temperature : 255 °C
 Flammability/Explosive limit : no data available

5.1 Ex tinguishing media




Suitable extinguishing media : Foam
 powder
 Car bon dioxide (CO2)
 Unsuitable ex tinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Combustible liquid.
 Container may explode if heated.
 Car bon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Gloves
 Goggles
 Boots
 Full protective suit
 Self -contained breathing apparatus (EN 133)

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions, protective equipment and emergency procedures :
- Remove all sources of ignition.
 - Avoid contact with the skin and the eyes.
 - Ventilate the area.
 - Do not breathe vapour.
 - Personal protective equipment
 - Self-contained breathing apparatus (EN 133)
 - Safety glasses
 - Boots
 - Complete suit protecting against chemicals
 - Impervious gloves
 - Keep away from flames and hot surfaces.

6.2 Environmental precautions

- Environmental precautions :
- Prevent product from entering sewage system.

6.3 Methods and materials for containment and cleaning up

- Recovery :
- Soak up with inert absorbent material.
 - Pump up the product into a spare container : - suitably labelled.
 - Keep in suitable, closed containers for disposal.
- Decontamination/cleaning :
- Wash off with plenty of water.
- Disposal :
- Dispose of contents/ container to an approved incineration plant.
- Methods for containment :
- Dam up with sand or inert earth (do not use combustible materials).
 - Stop leak if safe to do so.




6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Technical measures :
- Take measures to prevent the build up of electrostatic charge.
 - To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.
- Advice on safe handling and usage :
- Provide adequate ventilation.
 - Avoid contact with skin and eyes.
 - Avoid inhalation of vapour or mist.
- Hygiene measures :
- Ensure that eyewash stations and safety showers are close to the workstation location.
 - Use clean, well-maintained personal protection equipment.
 - Wash hands before breaks and at the end of workday.
 - When using do not eat, drink or smoke.

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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

- Recommended : Keep in a cool, well -ventilated place.
- To be avoided : Store away from heat.
Keep away from open flames, hot surfaces and sources of ignition.
Keep away from incompatible materials to be indicated by the manufacturer
- Incompatible products : Acids
Alkalis and caustic products.
Reducing materials.

Packaging Measures

- Packaging materials - Recommended : Stainless steel, Teflon (R), Hydrocarbon resistant materials.
- Packaging materials - To be avoided : rubbers.

Storage stability

- Storage temperature : no data available

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.




8.2 Exposure controls

Control measures

- Engineering measures : Local exhaust
Dust must be extracted directly at the point of origin.

Personal protective equipment

- Respiratory protection : Use a respirator with an approved filter if a risk assessment indicates this is necessary.
Respirator with filter for organic vapour
- Hand protection : Where there is a risk of contact with hands, use appropriate gloves
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Gloves must be inspected prior to use.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Remove and wash contaminated clothing.
Long sleeved clothing




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- Hygiene measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Use clean, well -maintained personal protection equipment.
Wa sh hands before breaks and at the end of workday.
When using do not eat, drink or smoke.
- Protective measures : The protective equipment must be selected in accordance with current CEN standards and in cooperation wit h the supplier of the protective equipment.
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.
- Environmental exposure controls
- General advice : Prevent product from entering sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : Physical state : liquid
Colour : amber
- Particle size : < 10 nm
- Odour : Hydrocarbons
- Odour Threshold : no data available
- pH : Not applicable insoluble product
- Boiling point/boiling range : 185 - 213 °C
Solvent
- Flash point : > 60 - 64 °C
- Evaporation rate (Butylacetate = 1) : no data available
- Flammability (solid, gas) : no data available
- Flammability (liquids) : no data available
- Flammability/Explosive limit : no data available
- Auto-ignition temperature : 255 °C
- Vapour pressure : 2 hPa (30 °C)
Solvent
negligible, Organic compound of Iron
- Vapour density : no data available
- Density : 0,770 - 0,820 g/cm³

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Solubility : Water solubility :
0,13 mg/l (20 °C)
Organic compound of Iron

< 1 mg/l (20 °C)
Solvent

Solubility in other solvents :
common organic solvents : soluble

Par tition coefficient: n -octanol/water : log Pow: 6,3
Organic compound of Iron

no data available, Solvent

Thermal decomposition : no data available

Viscosity : Viscosity, kinematic : min. 2cst (40 °C)

Explosive properties : negative
Mechanical sensitivity (shock)

Oxidizing properties : no data available

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Chemical stability : Stable at room temperature.

10.3 Possibility of hazardous reactions




Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Conditions to avoid : Keep away from flames and sparks.
Keep away from heat and sources of ignition.
Static electricity
Electric a rcs

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases
Strong oxidizing agents
Mineral acids.

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10.6 Hazardous decomposition products

Decomposition products : Car bon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : According to the data on the components
Not classified as harmful if swallowed
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports
Bibliography

Acute inhalation toxicity : According to the data on the components
Not classified as harmful by inhalation
According to the classification criteria for mixtures.
Unpublished reports

Acute dermal toxicity : According to the data on the components
Not classified as harmful by contact with skin
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation




Skin irritation : According to the data on the components
Not classified as irritating to skin
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

Serious eye damage/eye irritation

Eye irritation : According to the data on the components
Not classified as irritating to eyes
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

Respiratory or skin sensitisation

Sensitisation : Dermal
According to the data on the components
Not classified as sensitising by skin contact
According to the classification criteria for mixtures.
Unpublished internal reports
Unpublished reports

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Mutagenicity
Genotoxicity in vitro : No genotoxic potential was observed in tests performed on the components of the preparation
Product is not considered to be genotoxic
Unpublished internal reports
Unpublished reports

Genotoxicity in vivo
Hydrocarbons, C11 -C 15, Isoalkanes, <2% aromatics : By analogy

In vivo micronucleus test - Mouse
male and female
Oral exposure

negative
Unpublished reports

By analogy

Rodent dominant Lethal test male and female
Inhalation

negative
Unpublished reports

Carcinogenicity
Carcinogenicity : no data available




Toxicity for reproduction and development
Toxicity to reproduction/Fertility : Data available only for some components.
Fertility and developmental toxicity tests did not reveal any effect on reproduction.
Unpublished internal reports
Unpublished reports

Developmental Toxicity/Teratogenicity : In the tests done on the components of the preparation
no embryotoxic or teratogenic effects have been observed
Unpublished internal reports
Unpublished reports

STOT
STOT - single exposure : Toxicology Assessment :
The substance or mixture is not classified as specific target organ toxicant, single exposure.
Remarks: internal evaluation

STOT - repeated exposure : Toxicology Assessment :
The substance or mixture is not classified as specific target organ toxicant, repeated exposure., internal evaluation

According to the data on the components
No adverse effect has been observed in toxicity tests by repeated administration
In the tests done on the components of the preparation
Unpublished internal reports
Unpublished reports

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Aspiration toxicity
Aspiration toxicity : No as piration toxicity classification, internal evaluation

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

Hydrocarbons, C11 -C 15, Isoalkanes, <2% aromatics : By analogy
LC50 - 96 h : > 1.000 mg/l - Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 203
Unpublished reports

2-ethylhexan-1-ol : LC50 - 96 h : 17,1 mg/l - Leuciscus idus (Golden orfe)
Method: OECD Test Guideline 203
Unpublished reports

Acute toxicity to daphnia and other aquatic invertebrates.

Hydrocarbons, C11 -C 15, Isoalkanes, <2% aromatics : By analogy
LC 50 - 48 h : > 1.000 mg/l - Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Unpublished reports

2-ethylhexan-1-ol : EC50 - 48 h : 39 mg/l - Daphnia magna (Water flea)
Method: OECD Test Guideline 202
Unpublished reports




Toxicity to aquatic plants

Hydrocarbons, C11 -C 15, Isoalkanes, <2% aromatics : By analogy
EC50 - 72 h : > 1.000 mg/l - Pseudokirchneriella subcapitata (microalgae)
Method: OECD Test Guideline 201
Growth rate
Unpublished reports

2-ethylhexan-1-ol : EC50 - 72 h : 16,6 mg/l - Scenedesmus subspicatus
Method: OECD Test Guideline 201
Growth rate
Unpublished reports

Chronic toxicity to daphnia and other aquatic invertebrates.

Hydrocarbons, C11 -C 15, Isoalkanes, <2% aromatics : NOEC : >= 1,0 mg/l - 21 d - Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Unpublished reports

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Chronic Toxicity to aquatic plants
Hydrocarbons, C11 -C 15, Isoalkanes, <2% aromatics : By analogy
NOEC : >= 1000 mg/l - 72 d - Pseudokirchneriella subcapitata (microalgae)
Method: OECD Test Guideline 201
Growth rate
Unpublished reports

2-ethylhexan-1-ol : EC10 : 5,3 mg/l - 72 d - Scenedesmus subspicatus
Method: OECD Test Guideline 201
Unpublished reports

Ecotoxicity assessment
Acute aquatic toxicity : According to the data on the components
The product does not have any known adverse effects on the aquatic organisms tested
According to the classification criteria for mixtures.
Unpublished reports
Unpublished internal reports

12.2 Persistence and degradability

Biodegradability
Biodegradability : Conclusion is not possible due to incomplete or heterogeneous data on the components

12.3 Bioaccumulative potential

Partition coefficient: n -octanol/water
2-ethylhexan-1-ol : Not potentially bioaccumulable

12.4 Mobility in soil

Adsorption potential (Koc)
2-ethylhexan-1-ol : Koc: 26
Calculation method




Known distribution to environmental compartments : Product may be distributed into the various environmental compartments

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Environment assessment : Not classified as Dangerous for the Environment, according to REGULATION (EC) No 1272/2008

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

Advice on Disposal : Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

Advice on cleaning and disposal of packaging

Advice : Carefully drain and then steam clean.

Reason for waste disposal : May be reused following decontamination.

Other data : Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1. UN number

ADR/RID/IMDG/ICAO-IATA: -

14.2 UN shipment name

ADR/RID/IMDG: -

14.3 Hazard classifications connected to shipment

ADR/RID/IMDG/ICAO-IATA: -

ADR/RID/IMDG/ICAO-IATA: -

ADR: -

ADR/RID/IMDG/ICAO-IATA: -

IMDG – EmS: -




14.4 Packaging group

ADR/RID/IMDG/ICAO-IATA: -

14.5 Environment hazards

ADR/RID/IMDG/ICAO-IATA:

IMDG: Marine contaminant: -

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14.6 Special precautions for users

Shipment must be performed by licensed vehicles, authorized to ship dangerous goods, according to the ADR Regulation and national dispositions.

Shipment must be performed in original packaging or, anyway, in a material that cannot be assailable from the substance and not susceptible to generate dangerous reactions. Dangerous goods' loading and unloading workers should have received an appropriate training about risks and about any procedures to adopt in case of emergency.

14.7 Bulk transport according to MARPOL Annex III 73/78 and IBC code

Bulk transport is not expected

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

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

According to our knowledge, no specific regulatory information.

15.2 Chemical Safety Assessment

no data available

SECTION 16: Other information

Full text of H -Statements referred to under sections 2 and 3.

H304

May be fatal if swallowed and enters airways.

Further information

Further information

: Mixture in CLP Format

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in an other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.

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