SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

The G.O.A.T 7.5KG/Sealant

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

1.1. Product identifier

Product name :The G.O.A.T Sealant
Registration number REACH :Not applicable (mixture)
Product type REACH :Mixture

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

1.2.1 Relevant identified uses

Coating

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

Intelligent Membranes Ltd.
Clopton Farm, Lower Road
Croydon, SG8 0EF, United Kingdom
☎ +441223208174
info@intelligentmembranes.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English) : +441223208174

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
calcium carbonate	471-34-1 207-439-9	C<20%		(2)	Constituent	
Quartz (SiO2)	14808-60-7 238-878-4	C<30%	STOT RE 1; H372	(5)(1)(2)	Constituent	

(1) For H- and EUH-statements in full: see section 16
(2) Substance with a Community workplace exposure limit
(5) This component is physically bound in the product

SECTION 4: First aid measures

4.1. Description of first aid measures

General:
Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call emergency services. Treat symptoms starting with the most life threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:
Move victim into the fresh air. In case of respiratory problems, consult a doctor/medical advice.

After skin contact:
If possible, wipe up/dry remove chemical. Then rinse/shower immediately with lukewarm water. If irritation persists, consult a doctor/medical advice.

After eye contact:
Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:
Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult poison center.

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

4.2.1 Acute symptoms
After inhalation:
No effects known.
After skin contact:
No effects known.
After eye contact:
No effects known
After ingestion:
No effects known.
4.2.2 Delayed symptoms
No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:
Small fire: Quick-acng ABC powder exnguisher, Quick-acng BC powder exnguisher, Quick-acng class B foam exnguisher, Quick-acng CO2 extinguishers
Major fire: Class B foam (not alcohol-resistant).
5.1.2 Unsuitable extinguishing media:
Small fire: Water (quick-acng extinguisher, reel); risk of puddle expansion.
Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion CO and CO2 are formed and formation of metal oxides.

5.3. Advice for firefighters

5.3.1 Instructions:
No specific fire-fighting instructions required.
5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Safety glasses (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: Self contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Safety glasses (EN 166). Protec

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are a relevant exposure scenarios that correspond to your idenfied use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from magnetic sources/sparks. Observe strict hygiene. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: 5 °C - 25 °C. Meet legal requirements.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

Synthetic material.

7.2.4 Non suitable packaging material:

Metal.

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

EU		
Respirable crystalline silica dust	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	0.1 mg/m³ (1)
Belgium		
Calcium (carbonate de)	Time-weighted average exposure limit 8 h 10 mg/m³	10 mg/m³
Silices cristallines: quartz	Time-weighted average exposure limit 8 h 0.05 mg/m³ (1)	0.05 mg/m³ (1)
shall apply from 2025-09-01	Time-weighted average exposure limit 8 h	0.1 mg/m³ (1)
Silices cristallines: quartz		
shall apply until 2025-08-31		
(1) poussières alvéolaires		
The Netherlands		
Kristallijn silicastof - kwarts	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.03 ppm (1)
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.075 mg/m³ (1)

France

Calcium (carbonate de) Silices cristallines : cristobalite, quartz, tridymite (1) La valeur limite concerne la fraction alvéolaire	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	10 mg/m³ 0.1 mg/m³ (1)

Austria

Quarzfeinstaub(alveolengängiges kristallines Siliziumdioxid) (1) Alveolengängige Fraktion	Tagesmittelwert (MAK)	0.05 mg/m³ (1)

UK

Calcium carbonate Silica, crystalline (1) Inhalable dust (2) Respirable dust (3) Respirable fraction	Calcium carbonate Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m³ (1) 4 mg/m³ (2) 0.1 mg/m³ (3)

USA (TLV-ACGIH)

Silica, crystalline - α-quartz and cristobalite (1) (R): Respirable fraction	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.025 mg/m³ (1)

b) National biological limit values
If limit values are applicable and available these will be listed below.

8.1.2. Sampling methods

Calciumdicarbonate	NIOSH	7020
Quartz (silica, crystalline, by XRD)	NIOSH	7500
quartz	NIOSH	7601
quartz	NIOSH	7602
Silica, Crystalline, Respirable	NIOSH	7500
Silica, Crystalline	NIOSH	7601
Silica, Crystalline	NIOSH	7602
Silica, Quartz in Coal Dust (Silica in coal mine dust)	NIOSH	7603

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers
calcium carbonate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	6.36 mg/m³	

DNEL/DMEL - General population
calcium carbonate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1.06 mg/m³	
DNEL	Long-term systemic effects oral	6.1 mg/kg bw/day	
DNEL	Acute systemic effects oral	6.1 mg/kg bw/day	

PNEC
calcium carbonate

Compartments	Value	Remark
STP	100 mg/l	

8.1.5 Control banding
If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.
8.2.1 Appropriate engineering controls
Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
8.2.2 Individual protection measures, such as personal protective equipment
Observe normal hygiene standards. Do not eat, drink or smoke during work.
a) Respiratory protection:
Respiratory protection not required in normal conditions.
b) Hand protection:
Protective gloves against chemicals (EN 374).
c) Eye protection:
Eye protection not required in normal conditions.
d) Skin protection:
Protective clothing (EN 14605 or EN 13034).
8.2.3 Environmental exposure controls:
See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Paste
Viscosity	Thixotropic
Odour	Aromatic
Odour threshold	No data available (test not performed)
Colour	Variable in colour
Particle size	No data available (test not performed)
Explosion limits	Not classified as flammable
Flammability	Not applicable (mixture)
Log Kow	Not applicable
Dynamic viscosity	No data available (test not performed)
Kinematic viscosity	No data available (test not performed)
Melting point	No data available (test not performed)
Boiling point	No data available (test not performed)
Relative vapour density	No data available (test not performed)
Vapour pressure	No data available (test not performed)
Solubility	No data available (test not performed)
Relative density	No data available (test not performed)
Absolute density	No data available (test not performed)
Decomposition temperature	No data available (test not performed)
Auto-ignition temperature	No data available (test not performed)
Flash point	No data available (test not performed)
pH	

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Hearing increases the fire hazard.

10.2. Chemical stability
No data available.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat. In finely divided state: use spark/explosionproof appliances. Finely divided: keep away from ignition sources/sparks.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion CO and CO2are formed and formation of metal oxides.

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 420	> 2000 mg/kg		Rat (female)	Experimental value	
Dermal			> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 3 mg/l air	4 h	Rat (male / female)	Experimental value	

Conclusion
Not classified for acute toxicity
Corrosion/irritation
calcium carbonate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Eye	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Not applicable(invitro test	Not irritating	OECD 439	15 minutes		Reconstructed human epidermis	Experimental value	

Conclusion
Not classified as irritating to the respiratory system
Not classified as irritating to the skin
Not classified as irritating to the eyes

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 429			Mouse (female)	Experimental value	

Conclusion
Not classified as sensitizing for inhalation
Not classified as sensitizing for skin
Specific target organ toxicity
calcium carbonate

Route of exposure	Parameter	Method	Value	Organ/effect	Species	Value determination	Remark
Oral (stomach tube)	NOAEL	OECD 422	1000 mg/kg bw/day	No effect	48 day(s)	Rat (male/female)	
Inhalation (dust)	NOAEC local effects	OECD 413	≥ 0.212 mg/m³ air	No effect	13 weeks (6h / day, 5 days / week)	Rat (male/female)	
Inhalation (dust)	NOEC	OECD 413	0.399 mg/l	No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male/female)	

Quartz (SiO2)

Route of exposure	Parameter	Method	Value	Organ/effect	Exposure time	Species	Value determination	Remark
Inhalation			STOT RE cat.1				Literature study	

Conclusion
Not classified for subchronic toxicity
Mutagenicity (in vitro)
calcium carbonate

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes	No effect	Experimental value	

Mutagenicity (in vivo)
Conclusion
Not classified for mutagenic or genotoxic toxicity
Carcinogenicity
calcium carbonate

Route of exposure	Parameter	Method	Value	Organ/effect	Exposure time	Species	Value determination	Remark
Unknown							Data waiving	

Conclusion
Not classified for carcinogenicity
Reproductive toxicity
calcium carbonate

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (diet)	NOAEC	Equivalent to OECD 414	1963 mg/kg bw/day - 2188 mg/kg bw/day	62 day(s)	Rat	Foetus (no effect)	Experimental value	
Maternal toxicity (Oral(diet))	NOAEC	Equivalent to OECD 414	1963 mg/kg bw/day - 2188 mg/kg bw/day	62 day(s)	Rat	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOAL	OECD 422	1000 mg/kg bw/day	48 day(s)	Rat (male/female)	No effect	Experimental value	

Conclusion
Not classified for reprotoxic or developmental toxicity
Aspiration hazard
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Not classified for aspiration toxicity
Chronic effects from short and long-term exposure
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No effects known.
11.2. Information on other hazards
No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

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Judgement of the mixture is based on the relevant ingredients
calcium carbonate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/ salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 %	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	> 100 %	48 h	Daphnia magna	static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Pseudokirchneri ella subcapitata	static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	NOEC	OECD 201	50 mg/l	72 h	Pseudokirchneri ella subcapitata	static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish	Dose level		60 mg/l	42 day (s)	Oncorhynchus mykiss	Flowthrough system	Fresh water	Experimental value; Calcium ion
Long-term toxicity aquatic crustacea								Data waiving
Toxicity aquatic micro-organisms	EC50	OECD 209	> 1000 mg/l	3 h	Activated sludge			Literature study

Conclusion
Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008
12.2. Persistence and degradability
Water
Contains non readily biodegradable component(s)
12.3. Bioaccumulative potential
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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

calcium carbonate
Log Kow

Method	Remark	Value	Temperature	Value determination
	Not quantifiable			

Quartz (SiO2)
Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

Conclusion
No straightforward conclusion can be drawn based upon the available numerical values

12.4. Mobility in soil
Contains component(s) with potential for mobility in the soil
Contains component(s) that adsorb(s) into the soil
12.5. Results of PBT and vPvB assessment
Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regula□on (EC) No 1907/2006.
12.6. Endocrine disrupting properties
No evidence of endocrine disrupting properties
12.7. Other adverse effects
THE GOAT SEALANT
Greenhouse gases
None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)
Ozone-depleting potential (ODP)
Not classified as dangerous for the ozone layer (Regula□on (EC) No 1005/2009)
calcium carbonate
Greenhouse gases
Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)
Water ecotoxicity pH
pH shift
Quartz (SiO2)
Greenhouse gases
Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste
European Union
Can be considered as non hazardous waste according to Directive 2008/98/EC ,as amended by Regulation (EU)No1357/2014and Regulation (EU)No2017/997.The waste code must be assigned by the user, preferably in consultation with the(environmental) authorities concerned.
13.1.2 Disposal methods
Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

Any waste water from cleaning machinery on site will be sealed in product containers and returned to Intelligent Membranes for disposal.

13.1.3 Packaging/Container
European Union
Waste material code packaging(Directive 2008/98/EC).
15 01 10 (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road(ADR),Rail(RID),Inland waterways(ADN),Sea(IMDG/IMSBC),Air(ICAO-TI/IATA-DGR)

14.1. UN number	
Transport	Not subject
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Hazard identification number	
Class	
Classification code	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	No
Environmentally hazardous substance mark	
14.6. Special precautions for user	
Special provisions	
Limited quantities	
14.7. Maritime transport in bulk according to IMO instruments	
Annex II of MARPOL 73/78	Not applicable, based on available data

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content

> 1 %

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

National legislation The Netherlands

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Waterbezwaarlijkheid B (4); Algemene Beoordelingsmethodiek (ABM)
Quartz (SiO2)
SZW - Lijst van
kankerverwekkende stoffen
silica (respirabel stof, kristallijn); Opgenomen in SZW-lijst van kankerverwekkende stoffen
Lagerklasse (TRGS510) 6.1C: Brennbare, akut toxische Kat. 3 / giftige oder chronisch wirkende Gefahrstoffe

WGK 1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
calcium carbonate
TA-Luft 5.2.1
Quartz (SiO2)
TA-Luft 5.2.7.1.1/II

Other relevant data

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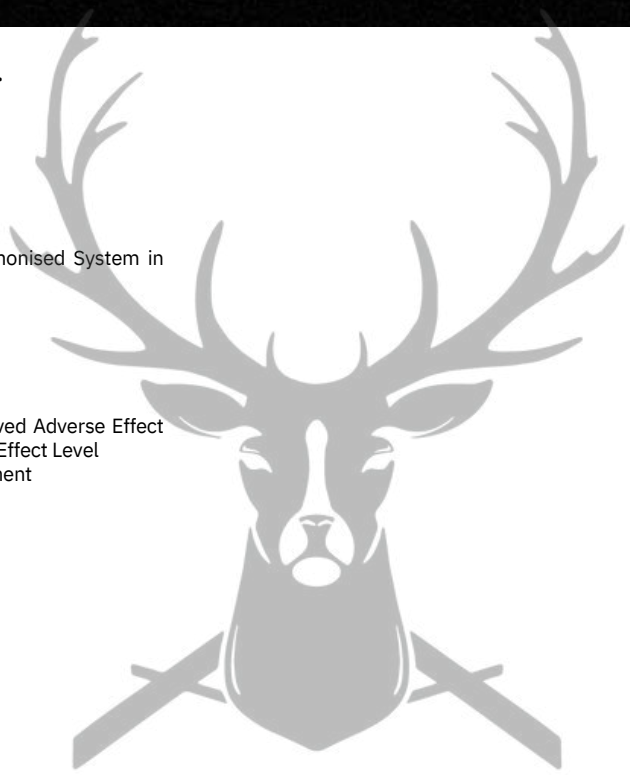
No data available
Quartz (Si02)
TLV- Carcinogen Silica, crystalline-α-quartz and cristobalite; A2
IARC - classification 1; Silica dust, crystalline, in the form of quartz or cristobalite

15.2. Chemical safety assessment
No chemical safety assessment is required for a mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect
NOEC/NOEL	Level No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative



The G.O.A.T Sealant

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that me. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from me to me. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhausveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.