

BIO ODOR REMOVER  
Code: 66/377



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**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1	<u>PRODUCT IDENTIFIER:</u> BIO ODOR REMOVER Code: 66/377
1.2	<u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> Cleaner. <span style="float: right;"><input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Professional <input checked="" type="checkbox"/> Consumers</span> <u>Uses advised against:</u> Not available
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> SALLÓ KYRA, S.L. Compositor Bach 17-19 Naves 2-3-4 P.I. Can Jardí - E-08191 - Rubí (Barcelona) Phone: +34 93 5880846 - Fax: +34 93 5881644 <u>E-mail address of the person responsible for the safety data sheet:</u> lab.sallo@sallo.es
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u> +34 93 5880846 (9:00-13:00 / 15:00-18:00 h.) (working hours)

**SECTION 2 : HAZARDS IDENTIFICATION**

2.1	<u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> <u>Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):</u> Xi:R36   R43   R52-53
2.2	<u>LABEL ELEMENTS:</u> R10 , Xi  <div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;"> </div> </div> <p>This product is labelled as FLAMMABLE and IRRITANT in accordance with Directive 67/548/EEC~2009/2/EC and 1999/45/EC~2006/8/EC</p> <p><u>R-phrases:</u> R36 Irritating to eyes. R43 May cause sensitization by skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p><u>S-phrases:</u> S2 Keep out of reach of children. S24/25 Avoid contact with skin and eyes. S37/39 Wear suitable gloves and protection for eyes. S46 If swallowed, seek medical advice immediately and show this container or label.</p> <p><u>Supplementary statements:</u> P153 Contains non-ionic surfactants 5-15 %, perfumes &lt; 5 %, LIMONENE, LINALOOL, CITRONELLOL, GERANIOL. Do not swallow.</p> <p><u>Hazardous ingredients:</u> (R)-p-mentha-1,8-diene</p>
2.3	<u>OTHER HAZARDS:</u> Not applicable.

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**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 SUBSTANCES:  
Not applicable.

3.2 MIXTURES:  
This product is a mixture.  
Chemical description:  
Contains non pathogenic microorganisms.  
Hazardous ingredients:  
Substances taking part in a percentage higher than the exemption limit:

For more information, see sections 8, 11, 12 and 16.

Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:

None

Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:


None

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**SECTION 4 : FIRST AID MEASURES**

**4.1 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:**

4.2  When in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u>	Inhalation of solvent vapours may produce headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, unconsciousness.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
<u>Skin:</u>	Skin contact causes redness. In case of prolonged contact, the skin may become dry.	Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. In the case of skin reddening or rashes, contact a doctor immediately.
<u>Eyes:</u>	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Call a physician immediately.
<u>Ingestion:</u>	If swallowed, may cause irritation of the throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea.	If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.3 **INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:**  
Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent).

**SECTION 5 : FIRE-FIGHTING MEASURES**

5.1 **EXTINGUISHING MEDIA:**  
Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist. Do not use for extinguishing: direct water jet.

5.2 **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**  
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products may be a hazard to health.

5.3 **ADVICE FOR FIREFIGHTERS:**  
- **Special protective equipment:** Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots.  
- **Other recommendations:** Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

6.1 **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**  
Eliminate possible sources of ignition and when appropriate, ventilate the area. Do not smoke. Avoid direct contact with this product. Avoid breathing vapours.

6.2 **ENVIRONMENTAL PRECAUTIONS:**  
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.

6.3 **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**  
Contain and mop up spills with non-combustible absorbent materials (earth, sand, vermiculite, diatomaceous earth, etc..). Keep the remains in a closed container.

6.4 **REFERENCE TO OTHER SECTIONS:**  
For contact information in case of emergency, see section 1.  
For information on safe handling, see section 7.  
For exposure controls and personal protection measures, see section 8.  
For subsequent waste disposal, follow the recommendations in section 13.

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**SECTION 7 : HANDLING AND STORAGE**

**7.1** PRECAUTIONS FOR SAFE HANDLING:  
Comply with the existing legislation on health and safety at work.  
General recommendations:  
Avoid any type of leakage or escape. Keep the container tightly closed.  
Recommendations for the prevention of fire and explosion risks:  
Vapours are heavier than air, may spread along floors to a considerable distance, can form explosive mixtures with air and are able to reach distant ignition sources and flame up or explode. Due to its flammability, this material should only be used in areas from which all naked lights and other sources of ignition have been excluded and away from other heat or electrical sources. Switch mobile phones off and do not smoke. No tools with a potential for sparks should be used.  
- Flash point : 43. °C  
- Autoignition temperature : 390. °C  
Recommendations for the prevention of toxicological risks:  
Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.  
Recommendations for the prevention of environmental contamination:  
Avoid any spillage in the environment. Pay special attention to the cleaning water. In the case of accidental spillage, follow the instructions indicated in section 6.

**7.2** CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:  
Prevent unauthorized access. Keep out of reach of children. This product should be stored isolated from heat and electrical sources. Do not smoke in storage area. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.  
Class of store : According to current legislation.  
Maximum storage period : # 24. months  
Temperature interval : min: 4. °C, max: 40. °C  
Incompatible materials:  
Keep away from oxidizing agents.  
Type of packaging:  
According to current legislation.  
Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:  
Lower threshold: 5000 tons , Upper threshold: 50000 tons

**7.3** SPECIFIC END USES:  
For the use of this product do not exist particular recommendations apart from that already indicated.

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**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 CONTROL PARAMETERS:  
If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689 standard concerning methods for assessing the exposure by inhalation to chemical agents and national guidance documents for methods for the determination of dangerous substances.

Occupational Exposure Limit Values (TLV)

AGCIH 2009	TLV-TWA		TLV-STEL		Year
	ppm	mg/m3	ppm	mg/m3	
Isopropyl alcohol	200.	491.	400.	982.	A4
(R)-p-mentha-1,8-diene	290.				Internal value

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.  
A4 - Non classified as carcinogenic in humans.

Biological Limit Values:  
Not available

Derived no-effect level, general population:  
Not available

Predicted no-effect concentration (PNEC):  
Not available

8.2 EXPOSURE CONTROLS:

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:  
Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these measures are not sufficient to maintain concentrations of particulates and vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.

Protection of respiratory system:  
Avoid the inhalation of vapours.

- Mask:  
Mask for gases and vapours (EN141). In order to obtain a suitable protection level, the filter class must be selected depending on the type and concentration of the contaminating agents present, in accordance with the specifications supplied by the filter producers. The respiratory equipment with filters does not work satisfactorily when the air contains high concentrations of vapour or oxygen content less than 18% in volume.
- Protection of eyes and face:  
It is recommended to install emergency eye baths close to the working area.
- Goggles:  
Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166).
- Face shield: No.
- Protection of hands and skin:  
It is recommended to install emergency showers close to the working area. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.
- Gloves:  
Gloves resistant against chemicals (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. The gloves should be immediately replaced when any sign of degradation is noted.
- Boots: No.
- Apron: No.
- Clothing:  
It is advisable personnel wear antistatic clothing made of natural fibre or high temperature resistant synthetic fibre.

ENVIRONMENTAL EXPOSURE CONTROLS:  
Avoid any spillage in the environment. Avoid any release into the atmosphere.

Spills on the soil: Prevent contamination of soil.

Spills in water: Harmful to aquatic organisms. May cause long-term adverse effects on the aquatic environment. Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: Because of volatility, emissions to the atmosphere while handling and use may result. Avoid any release into the atmosphere.



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**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

9.1	<p><u>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</u></p> <p><u>Appearance</u></p> <ul style="list-style-type: none"> <li>- Physical state : Liquid.</li> <li>- Colour : Blue.</li> <li>- Odour : Characteristic, pleasant.</li> </ul> <p><u>pH-value</u></p> <ul style="list-style-type: none"> <li>- pH : 8. ± 1. at 20°C</li> </ul> <p><u>Change of state</u></p> <ul style="list-style-type: none"> <li>- Melting point : # <i>Not applicable</i></li> <li>- Initial boiling point : Not available</li> </ul> <p><u>Density</u></p> <ul style="list-style-type: none"> <li>- Relative density : 1.03 ± 0.02 at 20/4°C <span style="float: right;">Relative water</span></li> </ul> <p><u>Stability</u></p> <ul style="list-style-type: none"> <li>- Decomposition temperature : # <i>Not available</i></li> </ul> <p><u>Viscosity:</u></p> <ul style="list-style-type: none"> <li>- Viscosity (flow time) : Not available</li> </ul> <p><u>Volatility:</u></p> <ul style="list-style-type: none"> <li>- Vapour pressure : 17.7 mmHg at 20°C</li> <li>- Vapour pressure : # 12.4 kPa at 50°C</li> </ul> <p><u>Solubility(ies)</u></p> <ul style="list-style-type: none"> <li>- Solubility in water: : Not applicable</li> </ul> <p><u>Flammability:</u></p> <ul style="list-style-type: none"> <li>- Flash point : 43. °C</li> <li>- Autoignition temperature : 390. °C</li> </ul> <p><u>Explosive properties:</u></p> <p>Not available</p> <p><u>Oxidizing properties:</u></p> <p>Not available</p>
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9.2	<p><u>OTHER INFORMATION:</u></p> <ul style="list-style-type: none"> <li>- Terpenic hydrocarbons : # 1.0 % Weight</li> <li>- VOC (supply) : 5.4 % Weight</li> <li>- VOC (supply) : # 56.0 g/l</li> </ul> <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>
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**SECTION 10 : STABILITY AND REACTIVITY**

10.1	<u>REACTIVITY:</u> Not available.
10.2	<u>CHEMICAL STABILITY:</u> Stable under recommended storage and handling conditions.
10.3	<u>POSSIBILITY OF HAZARDOUS REACTIONS:</u> Possible dangerous reaction with oxidizing agents.
10.4	<u>CONDITIONS TO AVOID:</u> - Heat: Keep away from sources of heat. - Light: If possible, avoid direct contact with sunlight. - Air: Not applicable. - Pressure: Not applicable. - Shock: Not applicable.
10.5	<u>INCOMPATIBLE MATERIALS:</u> Keep away from oxidizing agents.
10.6	<u>HAZARDOUS DECOMPOSITION PRODUCTS:</u> As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.

**SECTION 11 : TOXICOLOGICAL INFORMATION**

No experimental toxicological data on the preparation is available. The toxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

11.1	<p><u>INFORMATION ON TOXICOLOGICAL EFFECTS:</u>  <u>Routes of exposure:</u> May be absorbed by inhalation of vapour, through the skin and by ingestion.  <u>Short-term exposure:</u> Exposure to solvent vapour concentrations in excess of the stated occupational exposure limit, may result in adverse health effects, such as mucous membrane and respiratory system irritation and adverse effects on kidneys, liver and central nervous system. Liquid splashes in the eyes may cause irritation and reversible damage. May cause sensitization by skin contact. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours.  <u>Long-term or repeated exposure:</u> Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.</p>			
	<p><u>DOSE AND LETHAL CONCENTRATIONS</u> for individual ingredients :</p>			
		<u>DL50</u> (OECD 401) mg/kg oral	<u>DL50</u> (OECD 402) mg/kg cutaneous	<u>CL50</u> (OECD 403) mg/m3.4hours inhalation
	Isopropyl alcohol	5045. Rat	1088. Rat	72600. Rat
	(R)-p-mentha-1,8-diene	4400. Rat	12800. Rabbit	> 2000. Rabbit
	Linalool	2790. Rat	5610. Rabbit	
	4-tert-butylcyclohexyl acetate	> 5000. Rat		
	Citronellol	3450. Rat	2650. Rabbit	
	(2E)-3,7-dimethyl-2,6-octadien-1-ol	3600. Rat	> 5000. Rabbit	

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**SECTION 12 : ECOLOGICAL INFORMATION**

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

12.1	<u>TOXICITY:</u> for individual ingredients : Isopropyl alcohol (R)-p-mentha-1,8-diene 4-tert-butylcyclohexyl acetate	<u>CL50</u> (OECD 203) mg/l.96hours 9640. Fishes 0.70 Fishes 16. Fishes	<u>CE50</u> (OECD 202) mg/l.48hours 13300. Daphnia 0.73 Daphnia 9.6 Daphnia	<u>CE50</u> (OECD 201) mg/l.72hours > 1000. Algae
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12.2 PERSISTENCE AND DEGRADABILITY:  
Biodegradability: The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation 648/2004/EC on detergents: Ultimate aerobic biodegradation > 60% within 28 days. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

12.3 BIOACCUMULATIVE POTENTIAL:  
Not available.

12.4 MOBILITY IN SOIL:  
Not available.

12.5 RESULTS OF PBT AND MPMB ASSESMENT:  
Not available.

12.6 OTHER ADVERSE EFFECTS:  
Not available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

13.1 WASTE TREATMENT METHODS: Directive 2008/98/EC:  
Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8.

Disposal of empty containers: Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC:  
Emptied containers and packaging should be disposed of in accordance with currently local and national regulations.

Procedures for neutralising or destroying the product:  
Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.



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**SECTION 14 : TRANSPORT INFORMATION**

14.1	<u>UN NUMBER:</u> Not applicable
14.2	<u>UN PROPER SHIPPING NAME:</u> Free
14.3 14.4	<u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u>  <u>Transport by road (ADR 2011):</u> <u>Transport by rail (RID 2011):</u> Exempt  <u>Transport by sea (IMDG 34-08):</u> Exempt  <u>Transport by air (ICAO/IATA 2010):</u> Exempt  <u>Transport by inland waterways (ADN):</u> Free.
14.5	<u>ENVIRONMENTAL HAZARDS:</u> Not available
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> Not available
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not available

**SECTION 15 : REGULATORY INFORMATION**

15.1	<u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u>  <u>RESTRICTIONS:</u> <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not applicable. <u>Recommended restrictions on use:</u> Not applicable.  <u>OTHER REGULATIONS:</u> Not available
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15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> Not available.
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## SECTION 16 : OTHER INFORMATION

- 16.1 [TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:](#)  
[R-phrases according the Directive 67/548/EEC~2001/59/EC \(DSD\), Annex III:](#)  
R10 Flammable. R11 Highly flammable. R22 Harmful if swallowed. R36 Irritating to eyes. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitization by skin contact. R67 Vapours may cause drowsiness and dizziness. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
[Hazard statements according the Regulation \(EC\) No. 1272/2008~790/2009 \(CLP\), Annex III:](#)  
H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
- [MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:](#)  
· Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).  
· Threshold Limit Values, (AGCIH, 2009).  
· European agreement on the international carriage of dangerous goods by road, (ADR 2011).  
· International Maritime Dangerous Goods Code IMDG including Amendment 34-08 (IMO, 2008).
- [MATERIAL SAFETY DATA SHEET REGULATIONS:](#)  
Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.
- [HISTORY:](#)                      [Date of compilation:](#)  
Version: 1                      18/07/2011

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.