



SIL.SILKRAF SANITARIOS TRAN300
Code: 62803

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

1.1	<u>PRODUCT IDENTIFIER:</u> SIL.SILKRAF SANITARIOS TRAN300 Code: 62803	
1.2	<u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> Sealant. <u>Uses advised against:</u> None. As there is not classified as dangerous, this product can be used in ways other than the identified uses, but all uses have to be consistent with the safety guidelines provided. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.	<input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Professional <input type="checkbox"/> Consumers
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> KRAFFT, S.L. Unipersonal Carretera de Urnieta, s/nº - Apartado 14 - 20140 - Andoain (Gipuzkoa) Phone: +34 943 410400 - Fax: +34 943 410440 <u>E-mail address of the person responsible for the safety data sheet:</u> msds@krafft.es	
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u> +34 943 410400 (8:00-17:00 h.) (working hours)	

SECTION 2 : HAZARDS IDENTIFICATION

2.1	<u>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:</u> This product is not classified as dangerous. and in accordance with Directive 1999/45/EC~2006/8/EC	
2.2	<u>LABEL ELEMENTS:</u> <u>R-phrases:</u> None. <u>S-phrases:</u> S2 Keep out of reach of children. <u>Supplementary statements:</u> P101 Safety data sheet available for professional user on request. <u>Hazardous ingredients:</u> None.	This product does not require pictograms, in accordance with Directive Regulation (EC) No. 1272/2008~487/2013 (CLP) and 1999/45/EC~2006/8/EC
2.3	<u>OTHER HAZARDS:</u> Hazards which do not result in classification but which may contribute to the overall hazards of the mixture: <u>Other physicochemical hazards:</u> No other relevant adverse effects are known. <u>Other adverse human health effects:</u> No other relevant adverse effects are known. <u>Other negative environmental effects:</u> Does not contain substances that fulfil the PBT criteria.	

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **SUBSTANCES:**
Not applicable (mixture).

3.2	MIXTURES: This product is a mixture. Chemical description: Silicone sealant. Hazardous ingredients: Substances taking part in a percentage higher than the exemption limit:	10 < 15 % <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS: 72623-86-0 , EC: 276-737-9 DSD: - CLP: Asp. Tox. 1:H304	Index No. 649-482-00-X (Note H,L) < ATP21 < CLP00
	2,5 < 5 % <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Ethyltriacetoxilane CAS: 17689-77-9 , EC: 241-677-4 DSD: R14 C:R34 CLP: Not available.		Autoclassified
	1 < 2,5 % <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Methyltriacetoxilane CAS: 4253-34-3 , EC: 224-221-9 DSD: R14 C:R34 CLP: Not available.		Autoclassified
	< 0,1 % <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> 4,5-dichloro-2-octyl-2H-isothiazol-3-one CAS: 64359-81-5 , EC: 264-843-8 DSD: Xn:R21/22 C:R34 R43 N:R50 CLP: Acute Tox. (skin) 4:H312 Acute Tox. (oral) 4:H302 Skin Corr. 1B:H314 Eye Dam. 1:H318 Skin Sens. 1:H317 STOT SE (irrit.) 3:H335 Aquatic Acute 1:H400		Autoclassified
	Impurities: Does not contain other components of impurities which will influence the classification of the product. Content of DMSO extract measured in accordance with IP346 < 3%.		

Reference to other sections:
For more information, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
List updated by ECHA on 16/12/2013.
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

SECTION 4 : FIRST AID MEASURES

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

Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u>	Not applicable.	# 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.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser. Do not use solvents or thinners.
<u>Eyes:</u>	# Contact with the eyes produces redness and pain.	# Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. Remove contact lenses. Call a physician immediately.
<u>Ingestion:</u>	# If swallowed, may cause irritation of the mouth, throat and esophagus.	If swallowed, seek immediate medical attention. 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:**

Notes to physician: # Specific treatment is necessary in case of exposition with this substance. the appropriate means with instructions must be available.

Antidotes and contraindications: Not available.



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SECTION 5 : FIRE-FIGHTING MEASURES

5.1	EXTINGUISHING MEDIA: Extinguishing powder or CO ₂ . Never use water.
5.2	SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Fire can produce a dense black smoke. As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, formaldehyde. Exposure to combustion or decomposition products may be a hazard to health.
5.3	ADVICE FOR FIREFIGHTERS: <u>Special protective equipment:</u> Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents. <u>Other recommendations:</u> 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.
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.). Avoid use of solvents. 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.

SECTION 7 : HANDLING AND STORAGE

7.1	PRECAUTIONS FOR SAFE HANDLING: Comply with the existing legislation on health and safety at work. <u>General recommendations:</u> Use in areas free from sources of ignition and away from heat or electrical sources. Do not smoke. Avoid any type of leakage or escape. Keep the container tightly closed. <u>Recommendations for the prevention of fire and explosion risks:</u> 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. Do not smoke. - Upper/lower flammability or explosive limits : # 0.4 - 2.9 % Volume 25°C <u>Recommendations for the prevention of toxicological risks:</u> Do not eat, drink or smoke in application and drying areas. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8. <u>Recommendations for the prevention of environmental contamination:</u> It is not considered a danger to the environment. 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. Avoid extreme humidity conditions. 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. <u>Class of store</u> : # According to current legislation. <u>Maximum storage period</u> : 12. months <u>Temperature interval</u> : min: 5. °C, max: 40. °C <u>Incompatible materials:</u> Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. <u>Type of packaging:</u> According to current legislation. <u>Limit quantity (Seveso III):</u> Directive 96/82/EC~2003/105/EC: Not applicable.

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 2011	Year	TLV-TWA		TLV-STEL		Observations
		ppm	mg/m3	ppm	mg/m3	
Lubricant oils (oil) C15-C30 4,5-dichloro-2-octyl-2H-isothiazol-3-one	2000	-	5.0	-	10.	Mist Internal value

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic: Not available (withoud data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/kg bw/d -	<u>DNEL Oral</u> mg/kg bw/d -
<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic: Not available (withoud data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/cm2 -	<u>DNEL Eyes</u> mg/cm2 -
<u>Derived no-effect level, general population:</u> - Systemic effects, acute and chronic: Not available (withoud data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/kg bw/d -	<u>DNEL Oral</u> mg/kg bw/d -
<u>Derived no-effect level, general population:</u> - Local effects, acute and chronic: Not available (withoud data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/cm2 -	<u>DNEL Eyes</u> mg/cm2 -

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermittent release: Not available (withoud data of registration REACH).	<u>PNEC Fresh water</u> mg/l -	<u>PNEC Marine</u> mg/l -	<u>PNEC Intermittent</u> mg/l -
- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Not available (withoud data of registration REACH).	<u>PNEC STP</u> mg/l -	<u>PNEC Sediments</u> mg/kg dry weight -	<u>PNEC Sediments</u> mg/kg dry weight -
<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans: Not available (withoud data of registration REACH).	<u>PNEC Air</u> mg/m3 -	<u>PNEC Soil</u> mg/kg dry weight -	<u>PNEC Oral</u> mg/kg bw/d -

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8.2

EXPOSURE CONTROLS:ENGINEERING MEASURES:

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:

Protection of eyes and face: It is recommended to dispose of water taps or sources with clean water close to the working area.

Protection of hands and skin: It is recommended to dispose of water taps or sources with clean water close to the working area.

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc..), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:

Mask for gases and vapours (EN14387). Classe 1: low capacity up to 1000 ppm, Classe 2: medium capacity up to 5000 ppm, Classe 3: high capacity up to 10000 ppm. 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.

Goggles:

Advisable. Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield:

No.

Gloves:

Advisable.

Boots:

No.

Apron:

No.

Clothing:

No.

Thermal hazards:

Not applicable.

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: Not applicable.



SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<u>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</u>		
	<u>Appearance</u>	:	Paste.
	- Physical state	:	Colourless.
	- Colour	:	Characteristic
	- Odour	:	Not available (mixture).
	- Odour threshold	:	
	<u>pH-value</u>	:	
	- pH	:	Not applicable
	<u>Change of state</u>	:	
	- Melting point	:	Not applicable
	- Initial boiling point	:	Not applicable
	<u>Density</u>	:	
	- Relative density	:	0.99 at 20/4°C
	<u>Stability</u>	:	Relative water
	- Decomposition temperature	:	150. °C
	<u>Viscosity:</u>	:	
	- Viscosity (flow time)	:	Not available
	<u>Volatility:</u>	:	
	- Vapour pressure	:	Not available
	<u>Solubility(ies)</u>	:	
	- Solubility in water:	:	Not miscible
	- Solubility in oils and fats:	:	Not available
	<u>Flammability:</u>	:	
	- Flash point	:	105. °C
	- Upper/lower flammability or explosive limits	:	# 0.4 - 2.9 % Volume 25°C
	- Autoignition temperature	:	Not applicable
	<u>Explosive properties:</u>	:	
	Not available.	:	
	<u>Oxidizing properties:</u>	:	
	Not available.	:	
9.2	<u>OTHER INFORMATION:</u>	:	# 99.5 % Weight
	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.		

SECTION 10 : STABILITY AND REACTIVITY

10.1	<u>REACTIVITY:</u> Not available. <u>Corrosivity to metals:</u> It is not corrosive to metals. <u>Pyrophorical properties:</u> It is not pyrophoric.
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 water, oxidizing agents, acids, alkalis, amines.
10.4	<u>CONDITIONS TO AVOID:</u> <u>Heat:</u> Not applicable. <u>Light:</u> Not applicable. <u>Air:</u> Not applicable. <u>Humidity:</u> Avoid extreme humidity conditions. <u>Pressure:</u> Not applicable. <u>Shock:</u> Not applicable.
10.5	<u>INCOMPATIBLE MATERIALS:</u> Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.
10.6	<u>HAZARDOUS DECOMPOSITION PRODUCTS:</u> As consequence of thermal decomposition, hazardous products may be produced: formaldehyde.

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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	<u>INFORMATION ON TOXICOLOGICAL EFFECTS:</u>				
	<u>ACUTE TOXICITY:</u>				
	<u>Dose and lethal concentrations for individual ingredients :</u> Lubricant oils (oil) C15-C30 Ethyltriacetoxsilane Methyltriacetoxsilane 4,5-dichloro-2-octyl-2H-isothiazol-3-one				
	<u>DL50 (OECD 401)</u> mg/kg oral	<u>DL50 (OECD 402)</u> mg/kg cutaneous	<u>CL50 (OECD 403)</u> mg/m ³ .4h inhalation		
	> 5000. Rat	> 2000. Rabbit	> 2180. Rat		
	> 2000. Rat	> 2000. Rat			
	2060. Rat				
	756. Rat				
		680. Rabbit			
			> 290. Rat		
<u>No observed adverse effect level</u> Not available					
<u>Lowest observed adverse effect level</u> Not available					
<u>CMR EFFECTS:</u> <u>Carcinogenic effects:</u> Is not considered as a carcinogenic product. <u>Genotoxicity:</u> Is not considered as a mutagenic product. <u>Toxicity for reproduction:</u> Do not harm fertility. Do not harm the fetus developing. <u>Effects via lactation:</u> Not classified as a hazardous product for children breast-fed.					
<u>DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:</u> <u>Routes of exposure:</u> Not available. <u>Short-term exposure:</u> Not available. <u>Long-term or repeated exposure:</u> Not available.					
<u>ADDITIONAL INFORMATION:</u> Not available.					



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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>			
	<u>Acute toxicity in aquatic environment</u> for individual ingredients : Lubricant oils (oil) C15-C30 4,5-dichloro-2-octyl-2H-isothiazol-3-one	<u>CL50</u> (OECD 203) mg/l.96hours 5000. Fishes 0.0027 Fishes	<u>CE50</u> (OECD 202) mg/l.48hours > 1000. Daphnia 0.0052 Daphnia	<u>CE50</u> (OECD 201) mg/l.72hours > 1000. Algae 0.048 Algae
	<u>No observed effect concentration</u> Not available			
	<u>Lowest observed effect concentration</u> Not available			
12.2	<u>PERSISTENCE AND DEGRADABILITY:</u> Not available.			
12.3	<u>BIOACCUMULATIVE POTENTIAL:</u> Not available.			
12.4	<u>MOBILITY IN SOIL:</u> Not available.			
12.5	<u>RESULTS OF PBT AND MPMB ASSESSMENT:</u> Annex XIII of Regulation (EC) no. 1907/2006: Not applicable.			
12.6	<u>OTHER ADVERSE EFFECTS:</u> <u>Ozone depletion potential:</u> Not available. <u>Photochemical ozone creation potential:</u> Not available. <u>Earth global warming potential:</u> Not available. <u>Endocrine disrupting potential:</u> Not available.			

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1	<u>WASTE TREATMENT METHODS:</u> 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.
	<u>Disposal of empty containers:</u> 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. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself.
	<u>Procedures for neutralising or destroying the product:</u> Authorised landfill 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> Not applicable			
14.3 14.4	<u>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</u> <u>Transport by road (ADR 2013) and</u> <u>Transport by rail (RID 2013):</u> Not reglamented <u>Transport by sea (IMDG 35-10):</u> Not reglamented <u>Transport by air (ICAO/IATA 2012):</u> Not reglamented <u>Transport by inland waterways (ADN):</u> Free.			
14.5	<u>ENVIRONMENTAL HAZARDS:</u> <i># Not applicable (not classified as hazardous for the environment).</i>			
14.6	<u>SPECIAL PRECAUTIONS FOR USER:</u> Not applicable.			
14.7	<u>TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:</u> Not applicable.			
SECTION 15 : REGULATORY INFORMATION				
15.1	<u>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:</u> The regulations applicable to this product generally are listed throughout this material safety data sheet. <u>Restrictions on manufacture, placing on market and use:</u> See section 1.2 <u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2 <u>Tactile warning of danger:</u> Not applicable <u>Child safety protection:</u> Not applicable <u>OTHER REGULATIONS:</u> Not available			
15.2	<u>CHEMICAL SAFETY ASSESSMENT:</u> Not applicable (mixture).			

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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:

R14 Reacts violently with water. R34 Causes burns. R37 Irritating to respiratory system. R43 May cause sensitization by skin contact. R50 Very toxic to aquatic organisms. R21/22 Harmful in contact with skin and if swallowed.

Hazard statements according the Regulation (EC) No. 1272/2008~790/2009 (CLP), Annex III:

H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

Notes related to the identification, classification and labelling of the substances:

Note H : The classification and label shown for this substance applies to the dangerous property(ies) indicated by the risk phrase(s) in combination with the category(ies) of danger shown.

Note L : It is unnecessary to apply the classification as carcinogenic if it can be proved that the substance contains less than 3% de DMSO extract measured in accordance with IP346.

ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:

It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.

MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:

- # · European Chemicals Agency: ECHA, <http://echa.europa.eu/>
- # · Access to European Union Law, <http://eur-lex.europa.eu/>
- European Chemicals Bureau: Existing Chemicals, <http://esis.jrc.ec.europa.eu/>
- Threshold Limit Values, (AGCIH, 2011).

ABBREVIATIONS AND ACRONYMS:

List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:

- # · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
- # · DSD: Dangerous Substances Directive.
- # · DPD: Dangerous Preparations Directive.
- # · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
- # · CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
- # · EINECS: European Inventory of Existing Commercial Chemical Substances.
- # · ELINCS: European List of Notified Chemical Substances.
- # · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- # · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials.
- # · SVHC: Substances of Very High Concern.
- # · PBT: Persistent, bioaccumulable and toxic substances.
- # · vPvB: Very persistent and very bioaccumulable substances.
- # · VOC: Volatile Organic Compounds.
- # · DNEL: Derived No-Effect Level (REACH).
- # · PNEC: Predicted No-Effect Concentration (REACH).
- # · LD50: Lethal dose, 50 percent.
- # · LC50: Lethal concentration, 50 percent.
- # · UN: United Nations Organisation.
- # · ADR: European agreement concerning the international carriage of dangerous goods by road.
- # · RID: Regulations concerning the international transport of dangerous goods by rail.
- # · IMDG: International Maritime code for Dangerous Goods.
- # · IATA: International Air Transport Association.
- # · ICAO: International Civil Aviation Organization.

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: Revision:

Version: 4 24/09/2013
Version: 5 03/01/2014

Modifications with respect to the previous Material Safety Data Sheet:

The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.