



RP-51 POLISHED SURFACE SEALER
Code: 093083/070

Version: 1 Date of compilation: 25/11/2013

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

1.1	<u>PRODUCT IDENTIFIER:</u> RP-51 POLISHED SURFACE SEALER Code: 093083/070
1.2	<u>RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:</u> <u>Intended uses (main technical functions):</u> <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Professional <input checked="" type="checkbox"/> Consumers Stain-resistant protector. <u>Uses advised against:</u> This product is not recommended for any use or sector of use industrial, professional or consume other than those previously listed as 'Intended or identified uses'. If your use is not covered, please contact the supplier of this material safety data sheet. <u>Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:</u> Not restricted.
1.3	<u>DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:</u> GERMANS BOADA, S.A. Avda. Olimpiades, 89-91 - E-08191 Rubí (Barcelona) Phone: +34 93 680 65 00 - Fax: +34 93 680 65 00 <u>E-mail address of the person responsible for the safety data sheet:</u> gboada@rubi.com
1.4	<u>EMERGENCY TELEPHONE NUMBER:</u> +34 93 680 65 00 (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 Regulation (EC) No. 1272/2008-286/2011 (CLP):</u> DANGER: Flam. Liq. 3:H226 STOT SE (narcosis) 3:H336 Asp. Tox. 1:H304 EUH066					
	<u>Danger class</u>	<u>Classification of the mixture</u>	<u>Cat.</u>	<u>Routes of exposure</u>	<u>Target organs</u>	<u>Effects</u>
	<u>Physicochemical:</u> 	Flam. Liq. 3:H226 STOT SE (narcosis) 3:H336 Asp. Tox. 1:H304 EUH066	Cat.3 Cat.3 Cat.1 -	- Inhalation Ingestion+Aspiration Skin	- CNS Lungs Skin	- Narcosis Dead Dryness, Cracking
	<u>Human health:</u> 					
	<u>Environment:</u> Not classified					
	<u>Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):</u> R10 Xn:R65 R66-R67					

2.2	<u>LABEL ELEMENTS:</u> <p>This product is labelled with the signal word DANGER in accordance with Regulation (EC) No. 1272/2008-286/2011 (CLP)</p> <u>Hazard statements:</u> H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. EUH066 Repeated exposure may cause skin dryness or cracking. <u>Precautionary statements:</u> P101 If medical advice is needed, have product container or label at hand. P102-P405 Keep out of reach of children. Store locked up. P103 Read label before use. P271 Use only outdoors or in a well-ventilated area. P280F Wear protective gloves, clothing and eye protection. In case of inadequate ventilation wear respiratory protection. P301+P310-P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P501b Dispose of contents/container to hazardous or special waste collection point. <u>Supplementary statements:</u> None. <u>Hazardous ingredients:</u> Hydrocarbons C9-C11 aliphatics (aromatics<2%)
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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> Vapours may form with air a mixture potentially flammable or explosive. <u>Other adverse human health effects:</u> Prolonged exposure to vapours may produce transient drowsiness. In case of prolonged contact, the skin may become dry. <u>Other negative environmental effects:</u> Not applicable.
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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1	<p><u>SUBSTANCES:</u> Not applicable (mixture).</p>										
3.2	<p><u>MIXTURES:</u> This product is a mixture. <u>Chemical description:</u> Mixture of organic solvents. <u>Hazardous ingredients:</u> Substances taking part in a percentage higher than the exemption limit:</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <p>50 < 100 % </p> </td> <td style="vertical-align: top;"> <p>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (CAS: 64742-48-9) , List No. 919-857-5 REACH: 01-2119463258-33 DSD: R10 Xn:R65 R66-R67 CLP: Flam. Liq. 3:H226 STOT SE (narcosis) 3:H336 Asp. Tox. 1:H304 EUH066</p> </td> <td style="vertical-align: top;"> <p>Autoclassified < REACH < REACH</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>2,5 < 5 % </p> </td> <td style="vertical-align: top;"> <p>Hydrocarbons, C11-C12, isoalkanes, <2% aromatics (CAS: 90622-57-4) , List No. 918-167-1 DSD: Xn:R65 R66 CLP: Flam. Liq. 3:H226 Asp. Tox. 1:H304 Aquatic Chronic 4:H413 EUH066</p> </td> <td style="vertical-align: top;"> <p>Autoclassified < REACH < REACH</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>2,5 < 5 % </p> </td> <td style="vertical-align: top;"> <p>Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (CAS: 90622-58-5) , List No. 920-901-0 DSD: Xn:R65 R66 CLP: Asp. Tox. 1:H304 EUH066</p> </td> <td style="vertical-align: top;"> <p>Autoclassified < REACH < REACH</p> </td> </tr> </table> <p><u>Impurities:</u> Does not contain other components of impurities which will influence the classification of the product.</p> <p><u>Reference to other sections:</u> For more information, see sections 8, 11, 12 and 16.</p> <p><u>SUBSTANCES OF VERY HIGH CONCERN (SVHC):</u> List updated by ECHA on 16/12/2013. <u>Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:</u> None <u>Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:</u> None</p>		<p>50 < 100 % </p>	<p>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (CAS: 64742-48-9) , List No. 919-857-5 REACH: 01-2119463258-33 DSD: R10 Xn:R65 R66-R67 CLP: Flam. Liq. 3:H226 STOT SE (narcosis) 3:H336 Asp. Tox. 1:H304 EUH066</p>	<p>Autoclassified < REACH < REACH</p>	<p>2,5 < 5 % </p>	<p>Hydrocarbons, C11-C12, isoalkanes, <2% aromatics (CAS: 90622-57-4) , List No. 918-167-1 DSD: Xn:R65 R66 CLP: Flam. Liq. 3:H226 Asp. Tox. 1:H304 Aquatic Chronic 4:H413 EUH066</p>	<p>Autoclassified < REACH < REACH</p>	<p>2,5 < 5 % </p>	<p>Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (CAS: 90622-58-5) , List No. 920-901-0 DSD: Xn:R65 R66 CLP: Asp. Tox. 1:H304 EUH066</p>	<p>Autoclassified < REACH < REACH</p>
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SECTION 4 : FIRST AID MEASURES

4.1 4.2	<p><u>DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:</u></p> <p> 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. It can be dangerous to the person applying "kiss of life".</p>																
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Route of exposure</th> <th style="text-align: left;">Symptoms and effects, acute and delayed</th> <th style="text-align: left;">Description of first-aid measures</th> </tr> </thead> <tbody> <tr> <td> <p><u>Inhalation:</u> </p> </td> <td>Normally does not produce symptoms.</td> <td>Should there be any symptoms, transfer the person affected to the open air.</td> </tr> <tr> <td> <p><u>Skin:</u></p> </td> <td>In case of prolonged contact, the skin may become dry.</td> <td>Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.</td> </tr> <tr> <td> <p><u>Eyes:</u></p> </td> <td>Contact with the eyes produces redness and pain.</td> <td>Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.</td> </tr> <tr> <td> <p><u>Ingestion:</u> </p> </td> <td>If swallowed in high doses, may cause gastrointestinal disturbances.</td> <td>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.</td> </tr> </tbody> </table>	Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures	<p><u>Inhalation:</u> </p>	Normally does not produce symptoms.	Should there be any symptoms, transfer the person affected to the open air.	<p><u>Skin:</u></p>	In case of prolonged contact, the skin may become dry.	Remove contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.	<p><u>Eyes:</u></p>	Contact with the eyes produces redness and pain.	Remove contact lenses. Rinse eyes copiously by irrigation with plenty of clean, fresh water, holding the eyelids apart. If irritation persists, consult a physician.	<p><u>Ingestion:</u> </p>	If swallowed in high doses, may cause gastrointestinal disturbances.	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.	
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4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Notes to physician: In the case of ingestion, empty the stomach with caution. The product inhaled during vomiting could cause lung damage. Thus, emesis should not be induced, neither mechanically nor pharmacologically.
Antidotes and contraindications: Specific antidote not know. In the case of a pneumonia by chemical agents, must be considered a therapy with antibiotics and corticosteroids.

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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. Direct water jet may not be effective to extinguish the fire, since the fire may spread.
- 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. 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. 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.
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. Keep people without protection in opposition to the wind direction.
- 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.

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	:	38.	°C		
- Autoignition temperature	:	> 200.	°C		
- Upper/lower flammability or explosive limits	:	0.6 - 7.0	% Volume 25°C		
- Ventilation requirement	:	202.	m3/l		Air/Preparation

 to keep below 1/10 of the Lower Explosive Limit.
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:
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.
Class of store : According to current legislation.
Temperature interval : min: 5.°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-2011:
Not established.

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: Hydrocarbons C9-C11 aliphatics (aromatics<2%)	<u>DNEL Inhalation</u> mg/m3 s/r (a) 871. (c)	<u>DNEL Cutaneous</u> mg/kg bw/d s/r (a) 208. (c)	<u>DNEL Oral</u> mg/kg bw/d - (a) - (c)
	<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic: Hydrocarbons C9-C11 aliphatics (aromatics<2%)	<u>DNEL Inhalation</u> mg/m3 s/r (a) s/r (c)	<u>DNEL Cutaneous</u> mg/cm2 s/r (a) s/r (c)
<u>Derived no-effect level, general population:</u> - Systemic effects, acute and chronic: Hydrocarbons C9-C11 aliphatics (aromatics<2%)	<u>DNEL Inhalation</u> mg/m3 s/r (a) 185. (c)	<u>DNEL Cutaneous</u> mg/kg bw/d s/r (a) 125. (c)	<u>DNEL Oral</u> mg/kg bw/d - (a) 125. (c)
	<u>Derived no-effect level, general population:</u> - Local effects, acute and chronic: Hydrocarbons C9-C11 aliphatics (aromatics<2%)	<u>DNEL Inhalation</u> mg/m3 s/r (a) s/r (c)	<u>DNEL Cutaneous</u> mg/cm2 s/r (a) s/r (c)

(a) - Acute, short-term exposure, (c) - Chronic, long-term or repeated exposure.
 (-) - DNEL not available (without data of registration REACH).
 s/r - DNEL not derived (not identified hazard).

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PREDICTED NO-EFFECT CONCENTRATION (PNEC):

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermitent release: Hydrocarbons C9-C11 aliphatics (aromatics<2%)	<u>PNEC Fresh water</u> mg/l uvcb	<u>PNEC Marine</u> mg/l uvcb	<u>PNEC Intermittent</u> mg/l uvcb
	<u>PNEC STP</u> mg/l uvcb	<u>PNEC Sediments</u> mg/kg dry weight uvcb	<u>PNEC Sediments</u> mg/kg dry weight uvcb
<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans: Hydrocarbons C9-C11 aliphatics (aromatics<2%)	<u>PNEC Air</u> mg/m3 uvcb	<u>PNEC Soil</u> mg/kg dry weight uvcb	<u>PNEC Oral</u> mg/kg bw/d uvcb

uvcb - The substance has an unknown or variable composition (UVCB). The conventional methods to derive the PNEC are not appropriate and it is not possible to identify a single PNEC representative for these substances, and therefore not used in calculations for risk assessment.

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 vapours below the Occupational Exposure Limits, suitable respiratory protection must be worn.




Protection of respiratory system: Avoid the inhalation of solvents.

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. Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

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.

<u>Mask:</u> 	Mask for gases and vapours (EN14387). 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.
<u>Goggles:</u> 	Safety goggles designed to protect against liquid splashes, with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.
<u>Face shield:</u>	No.
<u>Gloves:</u> 	Solvent-resistant gloves (EN374). The breakthrough time of the selected glove material should be in accordance with the pretended period of use. When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. 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.
<u>Boots:</u>	No.
<u>Apron:</u>	No.
<u>Clothing:</u>	Advisable.

Thermal hazards:

Not applicable (the product is handled at room temperature).

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: 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, in special when it is used as a solvent. Avoid any solvent release into the atmosphere.

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</p> <p><u>Appearance</u> - Physical state : Liquid. - Colour : Colourless. - Odour : Characteristic. - Odour threshold : Not available (mixture).</p> <p><u>pH-value</u> - pH : Not applicable</p> <p><u>Change of state</u> - Melting point : Not available - Initial boiling point : 155. °C at 760 mmHg</p> <p><u>Density</u> - Vapour density : 5.05 at 20°C 1 atm. Relative air - Relative density : 0.779 at 20/4°C Relative water</p> <p><u>Stability</u> - Decomposition temperature : Not applicable</p> <p><u>Viscosity:</u> - Dynamic viscosity : 1.0 cps 20°C - Kinematic viscosity : 0.44 mm2/s at 40°C</p> <p><u>Volatility:</u> - Evaporation rate : 24.2 nBuAc=100 25°C Relative - Vapour pressure : 1.4 mmHg at 20°C - Vapour pressure : 1.3 kPa at 50°C</p> <p><u>Solubility(ies)</u> - Solubility in water: : Not available - Solubility in oils and fats: : Not available</p> <p><u>Flammability:</u> - Flash point : 38. °C - Upper/lower flammability or explosive limits : 0.6 - 7.0 % Volume 25°C - Autoignition temperature : > 200. °C</p> <p><u>Explosive properties:</u> Vapours can form explosive mixtures with air and are able to flame up or explode in presence of an ignition source.</p> <p><u>Oxidizing properties:</u> Based on the chemical structure of the ingredients of the mixture, is unable to react with combustible materials.</p>
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9.2	<p>OTHER INFORMATION:</p> <p>- Surface tension : 24.3 din/cm at 20°C - Heat of combustion : 11380. Kcal/kg - VOC (supply) : 100.0 % Weight - VOC (supply) : 778.8 g/l</p> <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	<p>REACTIVITY: <u>Corrosivity to metals:</u> It is not corrosive to metals. <u>Pyrophorical properties:</u> It is not pyrophoric.</p>
10.2	<p>CHEMICAL STABILITY: Stable under recommended storage and handling conditions.</p>
10.3	<p>POSSIBILITY OF HAZARDOUS REACTIONS: Possible dangerous reaction with oxidizing agents.</p>
10.4	<p>CONDITIONS TO AVOID: <u>Heat:</u> Keep away from sources of heat. <u>Light:</u> If possible, avoid direct contact with sunlight. <u>Air:</u> Not applicable. <u>Humidity:</u> Avoid extreme humidity conditions. <u>Pressure:</u> Not applicable. <u>Shock:</u> Not applicable.</p>
10.5	<p>INCOMPATIBLE MATERIALS: Keep away from oxidizing agents.</p>
10.6	<p>HAZARDOUS DECOMPOSITION PRODUCTS: As consequence of thermal decomposition, hazardous products may be produced: carbon monoxide.</p>

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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~286/2011 (CLP).

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations

for individual ingredients :

Hydrocarbons C9-C11 aliphatics (aromatics<2%)
Hydrocarbons C11-C12 isoalkanes (aromatics<2%)
Hydrocarbons C11-C13 isoalkanes (aromatics<2%)

DL50 (OECD 401)
mg/kg oral

> 5000. Rat
> 5000. Rat
> 5000. Rat

DL50 (OECD 402)
mg/kg cutaneous

3160. Rabbit
3160. Rabbit
3160. Rabbit

CL50 (OECD 403)
mg/m3.4h inhalation

> 9300. Rat
> 9300. Rat
> 6100. Rat

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Acute toxicity:

Routes of exposure	Acute toxicity	Cat.	Main effects, acute and/or delayed
<u>Inhalation:</u> Not classified	ETA > 20000 mg/m3	-	Not classified as a product with acute toxicity if inhaled (based on available data, the classification criteria are not met).
<u>Skin:</u> Not classified	ETA > 2000 mg/kg	-	Not classified as a product with acute toxicity in contact with skin (based on available data, the classification criteria are not met).
<u>Eyes:</u> Not classified	Not available	-	Not classified as a product with acute toxicity by eye contact (lack of data).
<u>Ingestion:</u> Not classified	ETA > 5000 mg/kg	-	Not classified as a product with acute toxicity if swallowed (based on available data, the classification criteria are not met).

CORROSION / IRRITATION / SENSITISATION :

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Respiratory corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant by inhalation (based on available data, the classification criteria are not met).
<u>Skin corrosion/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with skin (based on available data, the classification criteria are not met).
<u>Serious eye damage/irritation:</u> Not classified	-	-	Not classified as a product corrosive or irritant in contact with eyes (based on available data, the classification criteria are not met).
<u>Respiratory sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by inhalation (based on available data, the classification criteria are not met).
<u>Skin sensitisation:</u> Not classified	-	-	Not classified as a product sensitising by skin contact (based on available data, the classification criteria are not met).

ASPIRATION HAZARD:

Danger class	Target organs	Cat.	Main effects, acute and/or delayed
<u>Aspiration hazard:</u> 	Lungs	Cat.1	Not classified as a product hazardous by aspiration (based on available data, the classification criteria are not met).

SPECIFIC TARGET ORGANS TOXICITY (STOT): Single exposure (SE) and/or Repeated exposure (RE):

Effects	SE/RE	Target organs	Cat.	Main effects, acute and/or delayed
<u>Cutaneous:</u>	RE	Skin 	-	DEFATTENING: Repeated exposure may cause skin dryness or cracking.
<u>Neurological:</u> 	SE	CNS 	Cat.3	NARCOTIC: May cause drowsiness or dizziness if inhaled.



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CMR EFFECTS:

Carcinogenic effects: Is not considered as a carcinogenic product.
Genotoxicity: Is not considered as a mutagenic product.
Toxicity for reproduction: Do not harm the fetus developing.
Effects via lactation: Not classified as a hazardous product for children breast-fed.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: May be absorbed by inhalation of vapour, through the skin and by ingestion.
Short-term exposure: 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. If swallowed, may cause irritation of the throat; other effects may be the same as described in the exposure to vapours. Very small amounts expired by the lungs may cause severe pulmonary damage, including death.
Long-term or repeated exposure: Repeated or prolonged contact may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Repeated exposure may cause skin dryness or cracking.

ADDITIONAL INFORMATION:

Not available.

SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these mixture has been carried out by using the conventional calculation method of the Regulation (EC) No. 1272/2008~286/2011 (CLP).

12.1	TOXICITY:			
	Acute toxicity in aquatic environment for individual ingredients :	CL50 (OECD 203) mg/l.96hours	CE50 (OECD 202) mg/l.48hours	CE50 (OECD 201) mg/l.72hours
	Hydrocarbons C9-C11 aliphatics (aromatics<2%)	> 1000. Fishes	> 1000. Daphnia	> 1000. Algae
	Hydrocarbons C11-C12 isoalkanes (aromatics<2%)	> 1000. Fishes	> 1000. Daphnia	> 1000. Algae
	Hydrocarbons C11-C13 isoalkanes (aromatics<2%)	> 1000. Fishes	> 1000. Daphnia	> 1000. Algae
	No observed effect concentration			
	Not available			
	Lowest observed effect concentration			
	Not available			
12.2	PERSISTENCE AND DEGRADABILITY:			
	Not available.			
12.3	BIOACCUMULATIVE POTENTIAL:			
	Not available.			
12.4	MOBILITY IN SOIL:			
	Not available.			
12.5	RESULTS OF PBT AND MPMB ASSESMENT:	Annex XIII of Regulation (EC) no. 1907/2006:		
	Not applicable.			
12.6	OTHER ADVERSE EFFECTS:			
	Ozone depletion potential: Not available.			
	Photochemical ozone creation potential: Not available.			
	Earth global warming potential: In case of fire or incineration liberates CO2.			
	Endocrine disrupting potential: 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. 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.
	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	UN NUMBER: 3295
14.2	UN PROPER SHIPPING NAME: HYDROCARBONS, LIQUID, N.O.S. (contains hydrocarbons c9-c11 aliphatics (aromatics<2%))
14.3 14.4	<p>TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:</p> <p><u>Transport by road (ADR 2013) and Transport by rail (RID 2013):</u></p> <ul style="list-style-type: none"> - Class: 3 - Packaging group: III - Classification code: F1 - Tunnel restriction code: (D/E) - Transport category: 3 , max. ADR 1.1.3.6. 1000 L - Limited quantities: 5 L (see total exemptions ADR 3.4) - Transport document: Consignment paper. - Instructions in writing: ADR 5.4.3.4 <p><u>Transport by sea (IMDG 35-10):</u></p> <ul style="list-style-type: none"> - Class: 3 - Packaging group: III - Emergency Sheet (EmS): F-E,S-D - First Aid Guide (MFAG): 310 - Marine pollutant: No. - Transport document: Shipping Bill of lading. <p><u>Transport by air (ICAO/IATA 2012):</u></p> <ul style="list-style-type: none"> - Class: 3 - Packaging group: III - Transport document: Air Bill of lading. <p><u>Transport by inland waterways (ADN):</u> Not available.</p>
14.5	ENVIRONMENTAL HAZARDS: Not applicable (not classified as hazardous for the environment).
14.6	SPECIAL PRECAUTIONS FOR USER: Ensure adequate ventilation.
14.7	TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: Not available.



SECTION 15 : REGULATORY INFORMATION

15.1	<p>EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC: The regulations applicable to this product generally are listed throughout this material safety data sheet.</p> <p><u>Restrictions on manufacture, placing on market and use:</u> See section 1.2</p> <p><u>Control of the risks inherent in major accidents (Seveso III):</u> See section 7.2</p> <p><u>Tactile warning of danger:</u> If the product is intended for the general public, is mandatory a tactile warning of danger. The technical specifications for tactile warning devices shall conform with EN ISO standard 11683 relating to 'Packaging - Tactile warnings of danger - Requirements.'</p> <p><u>Child safety protection:</u> If the product is intended for the general public, is required a child-resistant fastening. Child-proof fastenings used on reclosable packages shall comply with ISO standard 8317 relating to 'Child resistant packages - Requirements and methods of testing for reclosable packages.' Child-proof fastenings used on non-reclosable packages shall comply with CEN standard EN 862, relating to 'Packaging - Child-resistant packaging - Requirements and testing procedures for non-reclosable packages for non-pharmaceutical products.'</p> <p>OTHER REGULATIONS: Not available</p>
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15.2	CHEMICAL SAFETY ASSESSMENT: 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:](#)
[Hazard statements according the Regulation \(EC\) No. 1272/2008~790/2009 \(CLP\), Annex III:](#)
 H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H413 May cause long lasting harmful effects to aquatic life. EUH066 Repeated exposure may cause skin dryness or cracking.
[R-phrases according the Directive 67/548/EEC~2001/59/EC \(DSD\), Annex III:](#)
 R10 Flammable. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.

[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/>
- Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
- European agreement on the international carriage of dangerous goods by road, (ADR 2013).
- International Maritime Dangerous Goods Code IMDG including Amendment 35-10 (IMO, 2010).

[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 regularion on Classificatin, Labelling amd 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: Letal dose, 50 percent.
- LC50: Letal concentration, 50 percent.
- UN: United Nations Organisation.
- ADR: European agreement concerning the international carriage of dangeous goods by road.
- RID: Regulations concerning the international transport of dangeous 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:](#)

Version: 1

[Date of compilation:](#)

25/11/2013

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.