

INDUSTRIAL COATINGS, MAINTENANCE & SAFETY

 **RUST-OLEUM**<sup>®</sup>

# RUST-OLEUM<sup>®</sup> **LEAKSEAL**<sup>™</sup>

*FLEXIBLE RUBBER COATING*

**NEW!**



- Seals leaks and cracks
- Watertight
- Paintable finish
- Easy to use

**KNOW-HOW TO PROTECT<sup>®</sup>**

# RUST-OLEUM® LEAKSEAL™

**LEAKSEAL™ is an easy to use, rubberised protective coating designed to fill and seal leaks and cracks. It provides a watertight, flexible seal.**



*Clean surface*

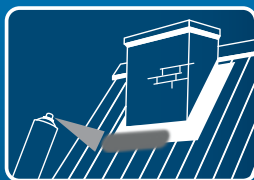


*Apply product in multiple layers (after 30 minutes)*

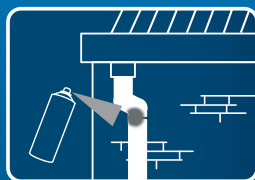


*Apply topcoat after 24hrs (optional)*

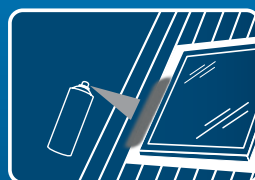
- Seals leaks and cracks
- Watertight semi smooth finish
- Can be top-coated with latex or oil-based paints
- For use on metal, aluminum, PVC, concrete, masonry, asphalt roofing materials, etc.



Roof/chimney stacks



Gutters/pipes/ducts



Window/ joints etc.



**Black**



**KNOW-HOW TO PROTECT®**

## PRODUCT DATA

## 3478 LeakSeal®

### DESCRIPTION

Rust-Oleum® LeakSeal® is an easy to use, rubberized protective utility coating designed to fill and seal leaks and cracks.

### MAIN PROPERTIES

Provides a water-tight, flexible seal that prevents moisture penetration and corrosion - dries to a semi smooth finish - will not sag or drip - can be top-coated with latex or oil-based paints.

### RECOMMENDED USES

Designed to fill and seal leaks and cracks on metal, aluminium, galvanized metal, PVC, concrete, masonry, asphalt/bituminous roofing materials, vinyl siding, fiberglass, and more.

### TECHNICAL DATA

Appearance: Semi smooth  
Colour: Black, white, transparent and aluminium

**Drying times** 20°C/50% r.h.  
To touch: 20 - 30 minutes  
To handle: 45 - 60 minutes  
To recoat: Apply second layer LeakSeal after 15 - 30 minutes  
Top-coated with water-based or oil-based paints after 24 hours.  
Full hardness: 24 hours

### Coverage

Theoretical: 0,74 m<sup>2</sup> per aerosol at 65 µm dry film thickness  
Practical: Practical coverage depends on many factors such as porosity and roughness of the substrate, size of the leakage and material losses during application.

### SURFACE PREPARATION

Remove all dirt and debris from the area to be coated. Wash area with a detergent and water solution, rinse with fresh water, and allow the surface to dry thoroughly. Remove any loose paint or previous coatings with a wire brush or sandpaper. Lightly sand glossy surfaces. Wipe the sanded surface clean when finished.  
Test previous coated material for compatibility before use.

### DIRECTION FOR USE

Shake aerosol vigorously for one minute after the mixing ball begins to rattle.  
If mixing ball fails to rattle DO NOT STRIKE CAN. Contact Rust-Oleum for technical support.  
A test spray on cardboard is recommended to obtain feel for the spray pattern. Hold the aerosol 8-18" (20 - 45 centimetre) from the surface and spray in short even strokes. It is recommended to apply a light first coat. Apply a second heavier coat to ensure proper coverage. A thicker film can be achieved by moving the nozzle closer to the surface. Initial spray may have some foaming or bubbling, but will dissipate as the coating dries. For best results, apply 2 coats. Allow to dry 15-30 minutes between coats.

### REMARKS

- If the valve clogs, twist and pull off spray tip and rinse in a solvent such as mineral spirits. Do not insert any object into can valve opening.
- Wipe off tip when finished.
- Clean-up wet paint with xylene or mineral spirits. Properly discard empty container.
- Do not burn or place in home trash compactor.

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## PRODUCT DATA

## 3478 LeakSeal®

### APPLICATION CONDITIONS

Use outdoors or in a well-ventilated area such as an open garage. Apply when temperature is between 50°F and 90°F (10 - 32°C) and humidity is below 85% to ensure proper drying.

Do not apply to surfaces, when heated, exceed 200°F (93°C).

Avoid spraying in very windy and dusty conditions. Cover surrounding area to protect from spray mist.

### SAFETY

Consult Safety Data Sheet and Safety Information printed on the can.

### SHELLIFE / STORAGE CONDITIONS

2 years from date of production in unopened cans, if stored in dry, well ventilated areas, not in direct sunlight at temperatures between 5° and 35°C.

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# SAFETY DATA SHEET

## Rust-Oleum™ Leakseal

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

#### 1.1 Product identifier

**Product name** : Rust-Oleum™ Leakseal  
**Product description** : Aerosol. Cleaning solutions.  
**Product type** : Aerosol.

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

**Product use** : Cleaning solutions.

#### 1.3 Details of the supplier of the safety data sheet

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Telephone no.: +31 (0) 165 593 636  
Fax no.: +31 (0) 165 593 600

Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium  
Telephone no.: +32 (0) 13 460 200  
Fax no.: +32 (0) 13 460 201

**e-mail address of person responsible for this SDS** : rpmeurohas@ro-m.com

#### 1.4 Emergency telephone number

**Telephone number** : +44 (0) 207 858 1228

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : F+; R12  
Xi; R37  
R66, R67  
N; R51/53

**Physical/chemical hazards** : Extremely flammable.

**Human health hazards** : Irritating to respiratory system. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

**Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R-phrases declared above.

See Section 11 for more detailed information on health effects and symptoms.


#### 2.2 Label elements

**Date of issue/Date of revision** : 20-11-2012.

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**SECTION 2: Hazards identification**

**Hazard symbol or symbols** :



**Indication of danger** : Extremely flammable, Dangerous for the environment

**Risk phrases** : R12- Extremely flammable.  
R37- Irritating to respiratory system.  
R66- Repeated exposure may cause skin dryness or cracking.  
R67- Vapours may cause drowsiness and dizziness.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases** : S23- Do not breathe vapour or spray.  
S37- Wear suitable gloves.  
S51- Use only in well-ventilated areas.

**Hazardous ingredients** : hydrocarbons, aromatic, C9

**Supplemental label elements** : Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

**2.3 Other hazards**

**Other hazards which do not result in classification** : Defatting to the skin.

**SECTION 3: Composition/information on ingredients**

**Substance/mixture** : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6 Index: 649-356-00-4	25-35	R10 Xn; R65 Xi; R37 R66, R67 N; R51/53	Flam. Liq. 3, H226 STOT SE 3, H335 and H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	<15	R10 R66, R67	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
butane	EC: 203-448-7 CAS: 106-97-8 Index: 601-004-00-0	5-10	F+; R12	Flam. Gas 1, H220 Press. Gas, H280	[2]
xylene (mixture of isomeres)	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<12.5	R10 Xn; R20/21 Xi; R38	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]

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**SECTION 3: Composition/information on ingredients**

			<b>See Section 16 for the full text of the R-phrases declared above.</b>	<b>See Section 16 for the full text of the H statements declared above.</b>	
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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard  
 [2] Substance with a workplace exposure limit  
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII  
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.

Exposure to component 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 the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## **SECTION 4: First aid measures**

See toxicological information (Section 11)

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

### **5.2 Special hazards arising from the substance or mixture**

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### **5.3 Advice for firefighters**

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

**Additional information** : Pressurised container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use. Container explosion may occur under fire conditions or when heated. Bursting aerosol containers may be propelled from a fire at high speed.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

### **6.2 Environmental precautions**

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

### **6.3 Methods and materials for containment and cleaning up**

: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

### **6.4 Reference to other sections**

: See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.



## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- : Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses.

#### Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

### 7.2 Conditions for safe storage, including any incompatibilities

- : Store in accordance with local regulations.

#### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

#### Additional information on storage conditions

Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

#### Recommendations

- : Not available.

#### Industrial sector specific solutions

- : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
hydrocarbons, aromatic, C9	<b>EH40/2005 WELs (United Kingdom (UK), 10/2007).</b> TWA: 125 mg/m <sup>3</sup> , (trimethylbenzene (25 ppm)) 8 hour(s).
n-butyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b> STEL: 966 mg/m <sup>3</sup> 15 minute(s). STEL: 200 ppm 15 minute(s). TWA: 724 mg/m <sup>3</sup> 8 hour(s).
butane	TWA: 150 ppm 8 hour(s). <b>EH40/2005 WELs (United Kingdom (UK), 8/2007).</b>

**SECTION 8: Exposure controls/personal protection**

xylene (mixture of isomeres)	STEL: 1810 mg/m <sup>3</sup> 15 minute(s). STEL: 750 ppm 15 minute(s). TWA: 1450 mg/m <sup>3</sup> 8 hour(s). TWA: 600 ppm 8 hour(s). <b>EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.</b> STEL: 441 mg/m <sup>3</sup> 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 220 mg/m <sup>3</sup> 8 hour(s). TWA: 50 ppm 8 hour(s).
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**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

**Derived effect levels**

Product/ingredient name	Type	Exposure	Value	Population	Effects
hydrocarbons, aromatic, C9	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	150 mg/m <sup>3</sup>	Workers	Systemic
n-butyl acetate	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral, Dermal	11 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	960 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Inhalation	480 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	480 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	859.7 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	859.7 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Inhalation	102.34 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Inhalation	102.34 mg/m <sup>3</sup>	Consumers	Local

**Predicted effect concentrations**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
n-butyl acetate	PNEC	Fresh water	0.18 mg/l	-
	PNEC	Marine	0.018 mg/l	-
	PNEC	Fresh water sediment	0.981 mg/kg	-
	PNEC	Marine water sediment	0.0981 mg/kg	-
	PNEC	Soil	0.0903 mg/kg	-
	PNEC	Sewage Treatment Plant	35.6 mg/l	-

**8.2 Exposure controls**

## SECTION 8: Exposure controls/personal protection

- Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety glasses with side shields. (EN166)
- Skin protection**
- Hand protection** : Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.  
The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear overalls or long sleeved shirt. (EN 1149-1)
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.  
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour (Type A) and particulate filter (EN 140) .
- Environmental exposure controls** : Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid. [Compressed gas]
- Colour** : Black.
- Odour** : Solvent-like
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Closed cup: -70°C
- Evaporation rate** : >1 (butyl acetate = 1)
- Flammability (solid, gas)** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.  
Slightly flammable in the presence of the following materials or conditions: shocks and mechanical impacts.  
Container explosion may occur under fire conditions or when heated. Vapour may travel a considerable distance to source of ignition and flash back.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.

**SECTION 9: Physical and chemical properties**

<b>Upper/lower flammability or explosive limits</b>	: Lower: 3% Upper: 18%
<b>Vapour pressure</b>	: >400 kPa [20°C]
<b>Vapour density</b>	: >1 [Air = 1]
<b>Relative density</b>	: 0.81
<b>Solubility(ies)</b>	: Not available.
<b>Partition coefficient: n-octanol/ water</b>	: Not available.
<b>Auto-ignition temperature</b>	: 400°C
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Explosive properties</b>	: Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
<b>Oxidising properties</b>	: Not available.

**9.2 Other information****Aerosol product**

<b>Type of aerosol</b>	: Spray
<b>Heat of combustion</b>	: 0.01432 kJ/g

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Stable under recommended storage and handling conditions (see Section 7).
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: When exposed to high temperatures may produce hazardous decomposition products.
<b>10.5 Incompatible materials</b>	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. If involved in a fire, toxic gases including CO, CO <sub>2</sub> and smoke can be generated.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.

Exposure to component 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 the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

**SECTION 11: Toxicological information**

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, aromatic, C9	LC50 Inhalation Vapour	Rat	>6193 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Mouse	8400 mg/kg	-
	LD50 Oral	Rat	3592 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	9700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	14000 mg/kg	-
butane	LC50 Inhalation Gas.	Rat	658000 mg/m <sup>3</sup>	4 hours
isobutane	LC50 Inhalation Vapour	Rat	658000 mg/m <sup>3</sup>	4 hours
xylene (mixture of isomeres)	LCLo Inhalation Gas.	Rat	1041000 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapour	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-

**Conclusion/Summary** : Not available.

Route	ATE value

**Irritation/Corrosion**

**Conclusion/Summary** : Not available.

**Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
hydrocarbons, aromatic, C9	skin	Rabbit	Not sensitizing

**Conclusion/Summary** : Not available.

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
hydrocarbons, aromatic, C9	OECD 471	Subject: Bacteria	Negative

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, aromatic, C9	-	-	Negative	Mammal - species unspecified	Unreported	-

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Other information** : Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

There are no data available on the mixture itself.  
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
hydrocarbons, aromatic, C9	Acute EC50 19 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 3.2 mg/l	Daphnia spec.	48 hours
	Acute IC50 2.9 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 21 mg/l	Daphnia spec.	24 hours
	Acute LC50 9.22 mg/l	Fish	96 hours
	Acute NOEC 1 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
n-butyl acetate	Acute EC10 956 mg/l	Bacteria - Pseudomonas putida	18 hours
	Acute EC50 648 mg/l	Algae - Desmodesmus subspicatus	72 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 64 mg/l	Fish	48 hours

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
hydrocarbons, aromatic, C9	-	78 % - Readily - 28 days	-	-
n-butyl acetate	-	90 % - Readily - 28 days	-	-
xylene (mixture of isomers)	-	90 % - Readily - 5 days	-	-

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
hydrocarbons, aromatic, C9	-	-	Readily
n-butyl acetate	-	-	Readily
xylene (mixture of isomers)	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
hydrocarbons, aromatic, C9	3.7 to 4.5	-	high
propane	2.36	-	low
n-butyl acetate	2.3	10	low
butane	2.89	-	low
isobutane	2.8	-	low
xylene (mixture of isomers)	3.16	-	high

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : This product is likely to volatilise rapidly into the air because of its high vapour pressure.

**12.5 Results of PBT and vPvB assessment**

**PBT** : Not applicable.

**SECTION 12: Ecological information**

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

**SECTION 13: Disposal considerations**

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

**13.1 Waste treatment methods****Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Hazardous waste** : Yes.



**European waste catalogue (EWC)** : The European Waste Catalogue classification of this product, when disposed of as waste, is:  
13 02 08\* other engine, gear and lubricating oils.  
If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.

**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	1950 LQ	1950 LQ	1950
<b>14.2 UN proper shipping name</b>	Aerosols, Flammable [Limited quantity]	Aerosols, Flammable [Limited quantity] Marine pollutant (hydrocarbons, aromatic, C9)	Aerosols, Flammable
<b>14.3 Transport hazard class(es)</b>	2	2.1	2.1  
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	Yes.	Yes.	Yes.

**SECTION 14: Transport information**

<b>14.6 Special precautions for user</b>	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
<b>Additional information</b>	<b>Limited quantity:</b> LQ2  <b>Remarks:</b> ( < 5L: ) Limited Quantity - ADR/IMDG 3.4  ADR Tunnel code: (D)	<b>Emergency schedules (EmS):</b> F-D + S-U  <b>Remarks:</b> Limited Quantity - ADR/IMDG 3.4	<b>Passenger and Cargo Aircraft</b> Quantity limitation: 75 kg Packaging instructions: 203 <b>Cargo Aircraft Only</b> Quantity limitation: 150 kg Packaging instructions: 203 <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 30 kg Packaging instructions: Y 203

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

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

**CN code** : 3402 90 90

**EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Other EU regulations**

**VOC for Ready-for-Use Mixture** : Not applicable.

**Europe inventory** : Not determined.

**Black List Chemicals** : Not listed

**Date of issue/Date of revision** : 20-11-2012.

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**SECTION 15: Regulatory information**

Priority List Chemicals : Not listed

Aerosol dispensers :

**3**

74.04% by mass of the contents are flammable.

Product/ingredient name	List name	Name on list	Classification	Notes
butane	UK Occupational Exposure Limits EH40 - WEL	butane	Carc.	-

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

✓ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

**Full text of abbreviated H statements** : H220 Extremely flammable gas.  
 H226 Flammable liquid and vapour.  
 H280 Contains gas under pressure; may explode if heated.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation. May cause drowsiness or dizziness.  
 and  
 H336  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

**Full text of classifications [CLP/GHS]** : Acute Tox. 4, H312 ACUTE TOXICITY: SKIN - Category 4  
 Acute Tox. 4, H332 ACUTE TOXICITY: INHALATION - Category 4  
 Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2  
 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1  
 Flam. Gas 1, H220 FLAMMABLE GASES - Category 1  
 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3  
 Press. Gas Comp. Gas, H280 GASES UNDER PRESSURE - Compressed gas  
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2  
 STOT SE 3, H335 and H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation and Narcotic effects] - Category 3  
 STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

## SECTION 16: Other information

<b>Full text of abbreviated R phrases</b>	: R12- Extremely flammable. R10- Flammable. R20/21- Harmful by inhalation and in contact with skin. R65- Harmful: may cause lung damage if swallowed. R37- Irritating to respiratory system. R38- Irritating to skin. R66- Repeated exposure may cause skin dryness or cracking. R67- Vapours may cause drowsiness and dizziness. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Full text of classifications [DSD/DPD]</b>	: F+ - Extremely flammable Xn - Harmful Xi - Irritant N - Dangerous for the environment



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<b>Date of previous issue</b>			: No previous validation.

### Notice to reader

*The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.*  
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