



SAFETY DATA SHEET

3486 Rust-Oleum® WaterProof

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name and/or code : 3486 Rust-Oleum® WaterProof

Manufacturer : Rust-Oleum Netherlands BV, PO. Box 138, NL-4700 AC Roosendaal, The Netherlands
NV Martin Mathys, Kolenbergstraat 23, B-3545 Zelem, Belgium

Emergency phone number : Rust-Oleum: +31(0)165-593636; Fax +31(0)165-593600
Martin Mathys: +32(0)13-460200; Fax +32(0)13-460201

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

Product use : Paint.

2. HAZARDS IDENTIFICATION

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

Classification : R10

Physical/chemical hazards : Flammable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name	CAS #	%	EU no.	Classification
2-methoxy-1-methylethyl acetate naphtha (petroleum), heavy alkylate	108-65-6 64741-65-7	10 - 25 10 - 25	203-603-9 265-067-2	R10 [2] R10 [1] [2] Xn; R65 R53
naphtha (petroleum), hydrotreated heavy	64742-48-9	5 - 10	265-150-3	R10 [1] [2] Xn; R65 R66
1-methoxy-2-propanol	107-98-2	2.5 - 5	203-539-1	R10 [1] [2] R67
naphtha (petroleum), hydrotreated heavy	64742-48-9	1 - 2.5	265-150-3	R10 [1] [2] Xn; R65 R66, R67
solvent naphtha (petroleum), light aromatic	64742-95-6	0 - 1	265-199-0	R10 [1] [2] Xn; R65 Xi; R37 R66 N; R51/53
1,2,4-trimethylbenzene	95-63-6	0 - 1	202-436-9	R10 [1] [2] Xn; R20 Xi; R36/37/38 N; R51/53
mesitylene	108-67-8	0 - 1	203-604-4	R10 [1] [2] Xi; R37 N; R51/53
See section 16 for the full text of the R-phrases declared above				

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 and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

4. FIRST AID MEASURES

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.
- 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. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

4. FIRST AID MEASURES

- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

- Extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
carbonyl halides
metal oxide/oxides

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : 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). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor 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.
- Keep container tightly closed. 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 preparation. Avoid inhalation of dust from sanding.
- Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Put on appropriate personal protective equipment (see section 8).
- Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
- Keep away from: oxidizing agents, strong alkalis, strong acids.
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 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 are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name

2-methoxy-1-methylethyl acetate

naphtha (petroleum), heavy alkylate

naphtha (petroleum), hydrotreated heavy

1-methoxy-2-propanol

naphtha (petroleum), hydrotreated heavy

solvent naphtha (petroleum), light aromatic

1,2,4-trimethylbenzene

mesitylene

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.STEL: 548 mg/m³ 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 274 mg/m³ 8 hour(s).

TWA: 50 ppm 8 hour(s).

EH40-WEL (United Kingdom (UK), 6/2005).STEL: 850 mg/m³, (as turpentine (150 ppm)) 15 minute(s). Form: VaporTWA: 566 mg/m³, (as turpentine (100 ppm)) 8 hour(s). Form: Vapor**EH40/2005 WELs (United Kingdom (UK), 8/2007).**STEL: 850 mg/m³, (as turpentine (150 ppm)) 15 minute(s). Form: VaporTWA: 566 mg/m³, (as turpentine (100 ppm)) 8 hour(s). Form: Vapor**EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.**STEL: 560 mg/m³ 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 375 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

EH40/2005 WELs (United Kingdom (UK), 8/2007).STEL: 850 mg/m³, (as turpentine (150 ppm)) 15 minute(s). Form: VaporTWA: 566 mg/m³, (as turpentine (100 ppm)) 8 hour(s). Form: Vapor**EH40/2005 WELs (United Kingdom (UK), 8/2007).**TWA: 125 mg/m³, (Trimethylbenzene (25 ppm)) 8 hour(s). Form: Vapor**EH40/2005 WELs (United Kingdom (UK), 8/2007).**TWA: 125 mg/m³ 8 hour(s).

TWA: 25 ppm 8 hour(s).

EH40/2005 WELs (United Kingdom (UK), 8/2007).TWA: 125 mg/m³ 8 hour(s).

TWA: 25 ppm 8 hour(s).

Exposure controls/personal protection

Occupational exposure controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

Respiratory protection

: Recommended: organic vapor filter (Type AX) (EN 141) .

Hand protection

: >8 hours (breakthrough time): For prolonged or repeated handling, use the following type of gloves: nitrile rubber (EN 374) .

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.

Eye protection

: Recommended: safety glasses with side-shields (EN 166) .

Skin protection

: Recommended: Overalls buttoned to the neck and wrist. (EN 1149-1) .

Other protection

: In confined spaces, use compressed-air or fresh-air respiratory equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: Liquid.

Odor

: Turpentine-like [Slight]

Color

: Dark grey.

Flash point

: Closed cup: 40°C (104°F) [ISO 3679:2004]

Boiling point

: >160°C (>320°F)

Explosion limits

: Lower: 0,6%
Upper: 8%

Vapor pressure

: 0.7 kPa

Vapor density

: >1 [Air = 1]

Evaporation rate (BuAc=1)

: 0,2 (Butyl acetate. = 1)

Volatility %

: 59.5 to 51.5% (v/v), 50 to 52% (w/w)

Viscosity

: Dynamic: 4500 to 5000 mPa·s (4500 to 5000 cP)

Relative density (kg/L)

: 1,01 to 1,04

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. TOXICOLOGICAL INFORMATION

There is no data available on the preparation itself. The preparation 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 vapor 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. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation 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.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 gm/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
	LC50 Inhalation Vapor	Rat	4345 mg/L	6 hours
naphtha (petroleum), heavy alkylate	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
naphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>3000 mg/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
	LC50 Inhalation Vapor	Rat	>5.5 mg/L	4 hours
1-methoxy-2-propanol	LD50 Intraperitoneal	Rat	3720 mg/kg	-
	LD50 Oral	Rat	6600 mg/kg	-
	LD50 Subcutaneous	Rat	7800 mg/kg	-
	LDLo Oral	Rat	3739 mg/kg	-
	LC50 Inhalation Vapor	Rat	55000 mg/m ³	4 hours
	LC50 Inhalation Gas.	Rat	10000 ppm	5 hours
	LCLo Inhalation Vapor	Rat	7000 ppm	6 hours
naphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
	LC50 Inhalation Vapor	Rat	14 to 35 mg/L	4 hours
solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Mouse	8400 mg/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
	LC50 Inhalation Vapor	Rat	29 mg/L	4 hours
1,2,4-trimethylbenzene	LD50 Oral	Rat	5 gm/kg	-
	LDLo Intraperitoneal	Rat	1752 mg/kg	-
	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
mesitylene	LD50 Oral	Rat	5000 mg/kg	-
	TDLo Subcutaneous	Rat	12 mL/kg	-
	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours

12. ECOLOGICAL INFORMATION

There is no data available on the preparation 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 not classified as dangerous for the environment but contains a substance or substances dangerous for the environment. See section 2 for details.

Aquatic ecotoxicity

Ingredient name	Result	Species	Exposure
2-methoxy-1-methylethyl acetate	Acute EC50 408 mg/l	Daphnia	48 hours
	Acute LC50 161 mg/l	Fish - Fathead minnow	96 hours
naphtha (petroleum), heavy alkylate	Acute EC50 >1000 mg/L	Daphnia	24 hours
	Acute LC50 >1000 mg/L	Fish	96 hours
naphtha (petroleum), hydrotreated heavy	Acute EC50 >1000 mg/L	Daphnia	4 hours
	Acute IC50 >1000 mg/L	Algae	4 hours
1-methoxy-2-propanol	Acute LC50 >1000 mg/L	Fish	4 hours
	Acute EC50 >1000 mg/l	Algae - Selenastrum capricornutum	7 days

12. ECOLOGICAL INFORMATION

naphtha (petroleum), hydrotreated heavy	Acute LC50 20800 mg/l	Fish - Fathead minnow	96 hours
	Acute LC50 23300 mg/l	Daphnia	96 hours
	Acute EC50 >25 mg/L	Daphnia	96 hours
solvent naphtha (petroleum), light aromatic	Acute LC50 >100 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours
	Acute NEL >100 mg/L	Algae	96 hours
	Acute IC50 1 to 10 mg/L	Algae	72 hours
1,2,4-trimethylbenzene	Acute LC50 18 mg/L	Fish - Trout - Oncorhynchus	96 hours
	Acute LC50 21 mg/L	Daphnia	24 hours
	Acute EC50 30 mg/L	Daphnia	48 hours
	Acute LC50 7720 to 8280 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 34 days	96 hours
	Acute LC50 17000 ug/L Marine water	Crustaceans - Dungeness or edible crab - Cancer magister - Zoea	48 hours
mesitylene	Acute IC50 53 mg/L	Algae - Scenedesmus subspicatus	48 hours
	Acute IC50 25 mg/L	Algae - Scenedesmus subspicatus	48 hours
	Acute LC50 13000 ug/L Marine water	Crustaceans - Dungeness or edible crab - Cancer magister - Zoea	48 hours
	Acute LC50 12520 to 15050 ug/L Fresh water	Fish - Goldfish - Carassius auratus - 1 to 1.5 years - 13 to 20 cm	96 hours
		- 20 to 80 g	

Ecological information

Biodegradability

Ingrédient name	Test	Result	Dose	Inoculum
1-methoxy-2-propanol	OECD 301E	96 % - Readily - 28 days	-	-
	-	>90 % - Readily - 5 days	1.95 gO2/g ThOD	-
	OECD 301C	88 to 92 % - Readily - 28 days	-	-
naphtha (petroleum), hydrotreated heavy	-	97.5 % - Readily - 28 days	-	-

Conclusion/Remark : This product has not been tested for biodegradation.

Ingrédient name	Aquatic half-life	Photolysis	Biodegradability
2-methoxy-1-methylethyl acetate	-	-	Readily
naphtha (petroleum), heavy alkylate	-	-	Not readily
naphtha (petroleum), hydrotreated heavy	Fresh water <28 days	-	Readily
1-methoxy-2-propanol	Fresh water <28 days	-	Readily
naphtha (petroleum), hydrotreated heavy	Fresh water <28 days	-	Readily
solvent naphtha (petroleum), light aromatic	-	-	Readily

Bioaccumulative potential

Ingrédient name	LogP _{ow}	BCF	Potential
2-methoxy-1-methylethyl acetate	0.43	-	low
naphtha (petroleum), heavy alkylate	>3	-	high
naphtha (petroleum), hydrotreated heavy	4.9 to 6.5	-	high
1-methoxy-2-propanol	-0.49	<100	low
naphtha (petroleum), hydrotreated heavy	3.9 to 4.9	-	high
solvent naphtha (petroleum), light aromatic	3.7 to 4.5	-	high
1,2,4-trimethylbenzene	3.8	-	high

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.

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

European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. 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.

Hazardous waste : Yes.


14. TRANSPORT INFORMATION

Transport within user's premises: 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.

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	- -	-	-	-		Remarks Transport acc. ADR 2.2.3.1.5 [SP223]
IMDG Class	1263	Paint.	3	III		Emergency schedules (EmS): F-E + S-E Marine pollutant: NO Remarks: (≤ 30L:) Transport acc. IMDG 2.3.2.5 [SP223]

14. TRANSPORT INFORMATION

IATA Class	1263	Paint.	3	III		Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 309 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 310 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y309
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PG* : Packing group

The "viscosity exemption" provisions do not apply to air transport.

15. REGULATORY INFORMATION

EU regulations	: The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:
Risk phrases	: R10- Flammable.
Safety phrases	: S2- Keep out of the reach of children. S35- This material and its container must be disposed of in a safe way. S43- In case of fire, use DRY chemicals, CO2, alcohol resistant foam or water spray. S46- If swallowed, seek medical advice immediately and show this container or label. S51- Use only in well-ventilated areas.
VOC for Ready-for-Use Mixture	: IIA/i. One-pack performance coatings. EU limit values: 600g/l (2007) 500g/l (2010.) This product contains a maximum of 495 g/l VOC.
Europe inventory	: Not determined.
Other EU regulations	
CN code	: 3208 90 91

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R10- Flammable. R20- Harmful by inhalation. R65- Harmful: may cause lung damage if swallowed. R37- Irritating to respiratory system. R36/37/38- Irritating to eyes, respiratory system and skin. R66- Repeated exposure may cause skin dryness or cracking. R67- Vapors may cause drowsiness and dizziness. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R53- May cause long-term adverse effects in the aquatic environment.
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The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Indicates information that has changed from previously issued version.

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 fulfill 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. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



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Date of issue	22/09/2009.		Printed 20/05/2010.