

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

1.1. Product identifier

Product form : Mixture
Trade name : Rubio Monocoat Limespot Remover

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use, Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Muylle Facon - Rubio Monocoat
Ambachtenstraat 58
8870 Izegem - Belgium
T +32 (0) 51 30 80 54 - F +32 (0) 51 30 99 78
info@muyllefacon.be - www.muyllefacon.be

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315
Eye Irrit. 2 H319

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

CLP Signal word : Warning
Hazard statements (CLP) : H315 - Causes skin irritation
H319 - Causes serious eye irritation
Precautionary statements (CLP) : P102 - Keep out of reach of children
P280 - Wear face shield, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Acetic acid, 80% aqueous solution	(CAS No) 64-19-7 (EC no) 200-580-7 (EC index no) 607-002-00-6 (REACH-no) 01-2119475328-30	< 25	C; R34 R10
Name	Product identifier	Specific concentration limits	
Acetic acid, 80% aqueous solution	(CAS No) 64-19-7 (EC no) 200-580-7 (EC index no) 607-002-00-6 (REACH-no) 01-2119475328-30	(10 =< C < 25) Xi;R36/38 (25 =< C < 90) C;R34 (C >= 90) C;R35	
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid, 80% aqueous solution	(CAS No) 64-19-7 (EC no) 200-580-7 (EC index no) 607-002-00-6 (REACH-no) 01-2119475328-30	< 25	Flam. Liq. 3, H226 Skin Corr. 1B, H314
Name	Product identifier	Specific concentration limits	
Acetic acid, 80% aqueous solution	(CAS No) 64-19-7 (EC no) 200-580-7 (EC index no) 607-002-00-6 (REACH-no) 01-2119475328-30	(10 =< C < 25) Skin Irrit. 2, H315 (10 =< C < 25) Eye Irrit. 2, H319 (25 =< C < 90) Skin Corr. 1B, H314 (C >= 90) Skin Corr. 1A, H314	

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.
- First-aid measures after ingestion : In all cases of doubt, or when symptoms persist, seek medical attention.

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

- Symptoms/injuries : If you feel unwell, seek medical advice.
- Symptoms/injuries after inhalation : None under normal use.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Risk of serious damage to eyes.
- Symptoms/injuries after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : hazy water, carbon dioxide (CO₂), foam and powder.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Precautionary measures fire : Evacuate area.
- Firefighting instructions : Prevent fire-fighting water from entering environment.
- Protection during firefighting : Self-contained breathing apparatus. Complete protective clothing.
- Other information : Exercise caution when fighting any chemical fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Notify police and fire brigade as soon as possible.

6.1.2. For emergency responders

Protective equipment : Safety glasses. Protective gloves. Do not attempt to take action without suitable protective equipment.

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

6.2. Environmental precautions

Collect spillage.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetic acid, 80% aqueous solution (64-19-7)		
EU	IOELV TWA (mg/m ³)	25 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
Belgium	Limit value (mg/m ³)	25 mg/m ³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (ppm)	15 ppm
France	VLE (mg/m ³)	25 mg/m ³
France	VLE (ppm)	10 ppm
USA - ACGIH	ACGIH TWA (ppm)	10 ppm
USA - ACGIH	ACGIH STEL (ppm)	10 ppm

Acetic acid, 80% aqueous solution (64-19-7)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	25 mg/m ³
Long-term - local effects, inhalation	25 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	25 mg/m ³
Long-term - local effects, inhalation	25 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	3,058 mg/l
PNEC aqua (marine water)	0,3058 mg/l
PNEC aqua (intermittent, freshwater)	30,58 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	11,36 mg/kg dwt
PNEC sediment (marine water)	1,136 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,478 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	85 mg/l

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Personal protective equipment : Safety glasses. Gloves.

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Hand protection : Gloves
Eye protection : Safety glasses



Environmental exposure controls : Avoid release to the environment.
Other information : Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Colour : transparent.
Odour : odourless.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : $\approx 0\text{ }^{\circ}\text{C}$
Freezing point : $\approx 0\text{ }^{\circ}\text{C}$
Boiling point : $\approx 100\text{ }^{\circ}\text{C}$
Flash point : $> 60\text{ }^{\circ}\text{C}$
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at $20\text{ }^{\circ}\text{C}$: No data available
Relative density : No data available
Density : $1,02\text{ kg/l}$
Solubility : Soluble in water.
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

VOC content : 0 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction. Stable in use and storage conditions as recommended in item 7.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

bases. Acids. oxidizing agents.

10.6. Hazardous decomposition products

Fire may liberate carbon oxides (CO) and smoke.

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Acetic acid, 80% aqueous solution (64-19-7)	
LD50 oral rat	3310 mg/kg
LC50 inhalation rat (mg/l)	> 40 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Ecological problems are not known or expected under normal use.

Acetic acid, 80% aqueous solution (64-19-7)	
LC50 fishes 1	75 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	6000 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	> 5000 mg/l (5 h)
LC50 fish 2	88 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	32 mg/l (48 h; Artemia salina)
ErC50 (algae)	300,82 mg/l (Algae; 72h)
TLM fish 1	47 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	100 ppm (96 h; Carassius auratus)
Threshold limit algae 1	90 mg/l (Microcystis aeruginosa)
Threshold limit algae 2	4000 mg/l (Scenedesmus quadricauda)

12.2. Persistence and degradability

Acetic acid, 80% aqueous solution (64-19-7)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,6 - 0,74 g O ₂ /g substance
Chemical oxygen demand (COD)	1,03 g O ₂ /g substance
ThOD	1,07 g O ₂ /g substance
BOD (% of ThOD)	0,56 - 0,69 % ThOD

12.3. Bioaccumulative potential

Acetic acid, 80% aqueous solution (64-19-7)	
Log Pow	-0,31 - -0,17
Bioaccumulative potential	Not applicable.

12.4. Mobility in soil

Acetic acid, 80% aqueous solution (64-19-7)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

12.5. Results of PBT and vPvB assessment

Rubio Monocoat Limespot Remover	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
Acetic acid, 80% aqueous solution (64-19-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.

Additional information : Clean up even minor leaks or spills if possible without unnecessary risk.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 16 10 01* - aqueous liquid wastes containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. : 2790

UN-No. (IMDG) : 2790

UN-No. (ICAO) : 2790

UN-No.(ADN) : 2790

UN-No. (RID) : 2790

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ACETIC ACID SOLUTION

Proper Shipping Name (IMDG) : ACETIC ACID SOLUTION

Proper Shipping Name (IATA) : Acetic acid solution

Proper Shipping Name (ADN) : ACETIC ACID SOLUTION

Proper Shipping Name (RID) : ACETIC ACID SOLUTION

Transport document description : UN 2790 ACETIC ACID SOLUTION, 8, III, (E)

Transport document description (IMDG) : UN 2790 ACETIC ACID SOLUTION, 8, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8

Danger labels (UN) : 8



IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8

Danger labels (ICAO) : 8



ADN

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group


Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : C3
Special provisions (ADR) : 597, 647
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1
Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Hazard identification number (Kemler No.) : 80
Orange plates : 
Tunnel restriction code (ADR) : E
EAC code : •2R

14.6.2. Transport by sea

Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A

14.6.3. Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 8L

14.6.4. Inland waterway transport

Classification code (ADN)	: C3
Special provisions (ADN)	: 597, 647
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Not subject to ADN	: No

14.6.5. Rail transport

Classification code (RID)	: C3
Special provisions (RID)	: 597, 647
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80
Carriage prohibited (RID)	: No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Acetic acid, 80% aqueous solution
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Acetic acid, 80% aqueous solution

Rubio Monocoat Limespot Remover

Safety Data Sheet

according to Regulation (EC) No. 453/2010

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Rubio Monocoat Limespot Remover - Tetrasodiummethylenediaminetetraacetate - Acetic acid, 80% aqueous solution
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Acetic acid, 80% aqueous solution

Rubio Monocoat Limespot Remover is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 g/l

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - low hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H226	Flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
R10	Flammable
R34	Causes burns
C	Corrosive

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product