

Safety Data Sheet
Rapicide PA Part A (RTU)
Revision Date: 4.1.13

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Code(s) ML02-0125
Product Name Rapicide PA Part A (RTU)
Pure substance/mixture Mixture Contains: Hydrogen peroxide, Peroxyacetic acid (non-stabilized).

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

Recommended Use Disinfectant
Uses advised against Do not mix with bleach

1.3 Details of the supplier of the safety data sheet

Company Medivators BV
Sourethweg 11
6422 PC HEERLEN
The Netherlands
TEL +31-45-5471471

For further information, please contact

E-mail address: info@medivatorsbv.com
Website: www.medivators.com

1.4 Emergency telephone number

Emergency Telephone: CHEMTREC: 1-703-527-3887

Section 2. Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Health Hazardous

Acute Inhalation Toxicity – Dust and Mists	Category 4
Skin Corrosion Irritation	Category 1
Serious Eye Damage / Eye Irritation	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Chronic Aquatic Toxicity	Category 3

Physical Hazards

Oxidizing Liquids	Category 2
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Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this section, see Section 16

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s) C – Corrosive
O - Oxidizing

R-code(s) Xn; R22 – C; R34 – Xi; R37 – O;R8

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2.2 Label Elements



Signal Word: **Danger**

Hazard Statements

- H314: Causes severe skin burns and eye damage
- H332: Harmful if inhaled
- H412: Harmful to aquatic life with long lasting effects
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness

Precautionary Statements

- P208: Wear protective gloves / protective clothing / eye protection / face protection
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310: Immediately call a POISON CENTER or doctor / physician
- P260: Do not breathe dust/fume/gas/mist/vapors/spray
- P264: Wash face, hands and any exposed skin thoroughly after handling
- P301 +P330 + P331: IF SWALLOWED: Rinse mouth, do NOT induce vomiting
- P303 + P361 + P353: IF ON SKINE (or hair): Remove / Take off immediately all contaminated clothing, rinse skin with water shower
- P363: Wash contaminated clothing before reuse
- P321: Specific treatment (see supplemental first aid instructions on this label)
- P271: Use only outdoors or in a well-ventilated area
- P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
- P312: Call a POISON CENTER or doctor / physician if you feel unwell
- P403 + P233: Store in a well ventilated place. Keep container tightly closed
- P405: Store locked up
- P273: Avoid release to the environment
- P501: Dispose of contents / container to an approved waste disposal plant

2.3 Other information: No Information available

Section 3. Composition/information on ingredients

3.1 Substances: Not applicable

3.2 Mixtures:

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU – GHS Substance Classification	REACH No.
Hydrogen	231-765-0	7722-84-1	21-24	Xn; R20/22	Acute Tox. 4 (H302)	No data

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peroxide				C; R 35 R5 O; R8	Skin Corr. 1A (H314) Ox. Liq. 1 (H271) Acute Tox. 4 (H332)	available
Acetic acid	200-580-7	64-19-7	8-10	R10 C: R35	Skin Corr 1A (H314) Flam. Liq. 3 (H226)	No data available
Peroxyacetic acid	201-186-8	79-21-0	4.5-6	R10 Xn; R20/21/22 C; R35 N; R50 O; R7	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Corr. 1A (H314) Flam. Liq. 3 (H226) Org. Perox. D (H242) Acute Tox. 4 (H332) Aquatic Acute 1 (H400)	No data available

For the full text of the R-phrases & H-statements mentioned in this section, see Section 16.

Section 4. First aid measures

4.1 Description of first-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact

Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Get medical attention if symptoms occur.

Ingestion

Drink plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

Inhalation

Move victim to fresh air. If symptoms arise, call a physician.

Protection of First-aiders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

4.3 Indication of immediate medical attention and special treatment needed.

Notes to Physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable Extinguishing Media: Water spray. Foam. Carbon dioxide (CO₂). Dry chemical. Cool containers with flooding quantities of water until well after fire is out.

Extinguishing media which must not be used for safety reasons: Water spray jet

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5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases.: Thermal decomposition can lead to release of toxic and corrosive gases/vapors.

5.3 Advice for firefighters

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.

Keep combustibles (wood, paper, oil, etc.) away from spilled material. Do not get water inside containers.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. It should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Dam up. Neutralize with sodium bicarbonate. Pick up and transfer to properly labeled containers. Following product recovery, flush area with water.

6.4 Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage
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7.1 Precautions for Safe Handling

Handling

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

Hygiene Measures

When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. For environmental protection, remove and wash all contaminated protective equipment before re-use. Provide regular cleaning of equipment, work area and clothing.

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7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures below 24 Degrees Celsius. Keep in properly labeled containers. Keep away from heat. Store away from incompatible materials and ignition sources.

7.3 Specific end use(s)

Exposure Scenario: No information available.

Other Guidelines: No information available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Hydrogen peroxide 7722-84-1		STEL: 2 ppm STEL: 2.8 mg/M3 TWA: 1 ppm TWA: 1.4 mg/m3	VME: 1.5 mg/m3 VME: 1 ppm	VLA-ED: 1 ppm VLA-ED: 1.4 mg/m3 VLA-ED	MAK: 0.5 ppm MAK: 0.71 mg/m3 Ceiling/Peak: 0.5 Ppm Ceiling/Peak: 0.71 Mg/m3 Skin
Acetic acid 64-19-7	TWA 10 ppm TWA 25 mg/m3		VLCTP: 10 ppm VLCT: 25 mg/m3	VLA-EC: 15 ppm VLA-EC: 37 mg/m3 VLA-ED: 10 ppm VLA-ED: 25 mg/m3	MAK: 10 ppm MAK: 25 mg/m3 Ceiling/Peak: 20 ppm Ceiling/Peak: 50 Mg/m3 TWA: 10 ppm TWA: 25 mg/m3
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Hydrogen peroxide 7722-84-1		TWA: 1 ppm	MAC: 1 ppm MAC; 1.4 mg/m3 MAC	TWA: 1 ppm TWA: 1.4 mg/m3 STEL: 3 ppm STEL: 4.2 mg/m3	TWA: 1 ppm TWA: 1.4 mg/m3
Acetic acid 64-19-7		STEL: 15 ppm TWA: 10 ppm		TWA: 5 ppm TWA: 13 mg/m3 STEL: 10 ppm STEL: 25 mg/m3	TWA: 10 ppm TWA: 25 mg/m3
Peroxyacetic acid 79-21-0				TWA: 0.2 ppm TWA: 0.6 mg/m3 STEL: 0.5 ppm STEL: 1.5 mg/m3	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Hydrogen peroxide 7722-84-1	STEL: 2 pp STEL: 2.8 mg/m3 STEL MAK: 1 ppm MAK; 1.4 mg/m3 MAK	STEL 0.5 ppm STEL (15 min); 0.71 mg/m3 STEL (15 min) MAK: 0.5 ppm MAK; 0.71 mg/m3 MAK	NDSch: 4 mg/m3 NDS: 1.5 mg/m3	TWA: 1 ppm TWA: 1.4 mg/m3 STEL: 2.8 mg/m3 STEL: 3 ppm	TWA: 1 ppm TWA: 1.5 mg/m3 STEL: 2 ppm STEL: 3 mg/m3
Acetic acid 64-19-7	STEL 20 ppm STEL 50 mg/m3 MAK: 10 ppm MAK: 25 mg/m3	STEL: 20 ppm STEL: 50 mg/m3 MAK: 10 ppm MAK: 25 mg/m3	NDSch: 30 mg/m3 NDS: 15 mg/m3	TWA: 1 ppm TWA: 25 mg/m3 STEL: 20 ppm STEL: 37.5 mg/m3	TWA: 10 ppm TWA: 25 mg/m3 STEL: 15 ppm STEL: 37 mg/m3

Derived No Effect Level

No information available

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Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems

Personal protective equipment

-Eye Protection Safety glasses with side-shields. If splashes are likely to occur, wear face-shield. Goggles

-Skin and Body Protection Chemical resistant apron, boots

-Hand Protection Protective gloves

-Respiratory Protection When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

Environmental Exposure Controls No information available

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Appearance	Clear
Odor	Acidic, Pungent		

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	0.8	+/- 3
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	1.090-1.140	None known
Water solubility	Completely soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Auto ignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Explosive Properties No information available

Oxidizing Properties SADT >60 C

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9.2 Other information

VOC Content (%) No information available

Section 10. Stability and reactivity

10.1 Reactivity: No data available

10.2 Chemical stability: Stable under normal conditions

10.3 Possibility of hazardous reactions: None under normal processing

10.4 Conditions to avoid: Keep away from direct sunlight. Heat. Temperatures above 24 degrees Celsius.

10.5 Incompatible materials: Heavy metals. Iron Copper. Aluminum. Alkalis. Caustic. Chlorine Oxidizing agents.

10.6 Hazardous decomposition products: Oxygen

Section 11. Toxicological information

11.1

Acute Toxicity

-Product Information

-Inhalation

Irritating to respiratory system

-Eye Contact

Eye contact with corrosive substances can cause eye burns. May cause irreversible damage to eyes.

-Skin Contact

Skin contact with corrosive substances can cause skin burns

-Ingestion

Harmful if swallowed

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrogen peroxide	=801 mg/kg (Rat)	=4060 mg/kg (Rat) =2000 mg/kg (Rabbit)	=2 mg/L (Rat) 4 h
Acetic acid	3310 mg/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L (Rat) 4 h
Peroxyacetic acid	=263 mg/kg (Rat)	=12000 mg/kg (Rat) =1410 uL/kg (Rabbit)	=0.3 mg/L (Rat) 1 h

Sensitization

No information available

Mutagenic Effects

No information available

Carcinogenic Effects

No information available

Reproductive Toxicity

No information available

Development Toxicity

No information available

STOT – single exposure

No information available

STOT – repeated exposure

No information available

--Target Organ Effects

Eyes, respiratory system, skin.

Aspiration Hazard

No information available

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Section 12. Ecological information

12.1 Toxicity

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Hydrogen peroxide	EC50 72 h: = 2.5 mg/L (Chlorella vulgaris)	LC50 96 h: 10.0-32.0 mg/L static (Oncorhynchus mykiss) LC50 96 h: 18-56 mg/L static (Lepomis macrochirus) LC50 96 h = 16.4 mg/L (Pimephales promelas)		EC50 48 h: 18-32 mg/L Static (Daphnia magna) EC50 24 h: 7.7 mg/L (Daphnia magna)
Acetic acid		LC50 96 h- 75 mg/L static (Lepomis macrochirus) LC50 96 h = 79 mg/L static (Pimephales promelas)	EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min EC50 = 8.8 mg/L 5 min	EC50 24 h = 47 mg/L (Daphnia magna) EC50 48 h = 65 mg/L Static (Daphnia magna)

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

Chemical Name	Log Pow
Acetic acid	-0.31

12.4 Mobility in soil: Absorbs on soil.

12.5 Results of PBT and vPvB assessment: No information available

12.6 Other adverse effects: No information available

Section 13. Disposal considerations

13.1 Waste treatment methods

Waste from Residues/Unused Products

Dispose of in accordance with all European and local regulations

Contaminated Packaging

Do not re-use empty containers, dispose of in accordance with all European and local regulations

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Other Information

According to the European Waste Catalogue, waste codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used

Section 14. Transport information
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IMDG/IMO

14.1 UN-Number	UN3149
14.2 Proper Shipping Name	Hydrogen peroxide and peroxyacetic acid mixture, stabilized
14.3 Hazard Class	5.1
-Subsidiary Class	8
14.4 Packing Group	II
- Description	UN3149, hydrogen peroxide and peroxyacetic acid mixture, stabilized, 5.1 (8), II
14.5 Marine Pollutant	None
14.6 Special Provisions	None
- EmS No.	F-H, S-Q
14.7 Transport in bulk according to Annex ** of MARPOL 73/78 and The IBC Code	No information available

RID

14.1 Un-Number	UN3149
14.2 Proper Shipping Name	Hydrogen peroxide and peroxyacetic acid mixture, stabilized
14.3 Hazard Class	5.1
- ADR/RID – Labels	8
14.4 Packing Group	II
- Description	UN3149, Hydrogen peroxide and peroxyacetic acid mixture, stabilized, 5.1 (8), II
14.5 Environmental hazard	None
14.6 Special Provisions	None
- Classification Code	OC1

ADR

14.1 UN-Number	UN3149
14.2 Proper Shipping Name	Hydrogen peroxide and peroxyacetic acid mixture, stabilized
14.3 Hazard Class	5.1
- ADR/RID-Labels	5.1 + 8
14.4 Packing Group	II
- Description	UN3149, Hydrogen peroxide and peroxyacetic acid mixture, stabilized, 5.1 (8), II (E)
14.5 Environmental hazard	None
14.6 Special Provisions	None
- Classification Code	OC1
- Tunnel Restriction Code	(E)

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ICAO

14.1 UN-Number	UN3149
14.2 Proper shipping name	Hydrogen peroxide and peroxyacetic acid mixture
14.3 Hazard Class	5.1
-Subsidiary Class	8
14.4 Packing Group	II
-Description	UN3149, Hydrogen peroxide and peroxyacetic acid mixture, 5.1 (8), II
14.5 Environmental hazard	None
14.6 Special Provisions	None

IATA

14.1 UN-Number	UN3149
14.2 Proper Shipping Name	Hydrogen peroxide and peroxyacetic acid mixture stabilized
14.3 Hazard Class	5.1
-Subsidiary Class	8
14.4 Packing Group	II
-Description	UN3149, Hydrogen peroxide and peroxyacetic acid mixture stabilized, 5.1 (8), II
14.5 Environmental hazard	None
14.6 Special Provisions	None
- ERG Code	5C

Section 15. Regulatory information

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

International Inventories: All of the components in the product are on the following inventory lists:

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Does not comply
IECSC	Complies
AICS	Complies
KECL	Does not comply

Legend

TSCA – United States Toxic Substances Control Act, Section 8(b) Inventory

EINECS/ELINCS – European Inventory of Existing Commercial Substances/EU List of Notified Chemical Substances

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

PICCS – Philippines Inventory of Chemical and Chemical Substances

ENCS – Japan Existing and New Chemical Substances

IECSC – China Inventory of Existing Chemical Substances

AICS – Australian Inventory of Chemical Substances

KECL – Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Assessment: No information available.

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Section 16. Other information

Full text of H-phrases referred to under Sections 2 and 3

H226: Flammable liquid and vapour
H242: Heating may cause a fire
H271: May cause fire or explosion; strong oxidiser
H302: Harmful if swallowed
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage
H332: Harmful if inhaled
H412: Harmful to aquatic life with long lasting effects
H335: May cause respiratory irritation
H336: May cause drowsiness or dizziness
H400: Very toxic to aquatic life

Full text of R-phrases referred to under Sections 2 and 3

R35 – Causes severe burns
R8 – Contact with combustible material may cause fire
R5 – Heating may cause an explosion
R10 – Flammable
R7 – May cause fire
R22 – Harmful if swallowed
R34 – Causes Burns
R37 – Irritating to respiratory system
R50 – `Very toxic to aquatic organisms
R20/22 – Harmful by inhalation and if swallowed
R20/21/22 – Harmful by inhalation, in contact with skin and if swallowed

Key literature references and sources for data: www.ChemADVISOR.com/

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Revision Note Not applicable

This safety data sheet complies with the requirements of Commission Regulation (EC) No. 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet