

Reagent Data Sheet Ochratoxin A in Roasted Coffee FTD 51270TACR

Component ID	Description	SDS
51270TADV	Membrane Devices	-
	2x 5 devices	
5127OTACRE	Extraction solution	х
	Ready to use	
5127OTACRP	Purification buffer	X
	Ready to use	
51270TAC0	Reaction vials	X
	Lyophilized	
5127RB	Wash buffer	х
	Ready to use	
5127TMB	Substrate	X
	Ready to use	
5000SYR	Syringes	-
	10x	
5000FIL	Filters	-
	10x	
5000PAS30	Pasteur pipettes	-
	30x	

X SDS attached to this sheet



1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Product name	Ochratoxin A Roasted Coffee Extraction Solution
Product code	5127OTACRE

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

1.3. Details of the supplier of the safety data sheet

Company	R-Biopharm Nederland B.V.	
	Beijerinckweg 18	
	6827 BN Arnhem	
	Netherlands	
Telephone	+31 (0)26-363-0364	
Fax	+31 (0)26-364-5111	
E-mail address	info@r-biopharm.nl	

1.4. Emergency telephone number

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Emergency phone # Please look for the emergency telephone number in your country before using this substance or mixture.
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2. Hazards identification

2.1. Classification of the substance or mixture Classification (Regulation (EC) No 1272/2008) Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - single exposure (Category 1), Eyes, Central nervous system, H370

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Labelling (Regulation (EC) No 1272/2008)

Pictogram

Signal Word



Hazard statement(s)	
H225	Highly flammable liquid and vapor.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H370	Causes damage to organs (Eyes, Central nervous system).
Precautionary statemer	nt(s)
P210	Keep away from heat, hot surfaces, sparks, open flames and other
	ignition sources. No smoking.
D000	

P233 Keep container tightly closed.

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
P301 + P310 P311	IF SWALLOWED: Immediately call a POISON CENTER or a doctor. Call a POISON CENTER or a doctor.

Supplemental Hazard None Statements

Reduced Labeling (<= 125 ml)

Pictogram		
	GHS06	GHS08
Signal word	Danger	
Hazard statement(s) H370 H301 + H311 + H331	Causes damage Toxic if swallov	e to organs. ved, in contact with skin or if inhaled.

Precautionary statement(s)

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable
	for breathing. Call a POISON CENTER/ doctor.

Supplemental Hazard None Statements

2.3. Other hazards

None

3. Composition/information on ingredients 3.1. Dangerous ingredients

Chemical name	EC-No	CAS-No	Weight (%)	Classification (1272/2008/EC)	REACH Registration Number
Methanol	200-659-6	67-56-1	100%	Flam. Liq. 2 H225 Acute Tox. 3 H301 Acute Tox. 3 H331 Acute Tox. 3 H311 STOT SE 1 H370	No data available

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

General advice	First aider needs to protect himself. Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse out with plenty of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off with plenty of water. Remove contaminated clothing. Consult a physician.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention (mention methanol ingestion).
Inhalation	Move person into fresh air. If not breathing, give artificial respiration. Immediately call in a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

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

Notes to physician	Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water, CO2, dry chemical or foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known based on information supplied.

5.2. Special hazards arising from the substance or mixture

Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of:

Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas, Sulphur oxides, Mercury vapors.

5.3. Advise for firefighters

Wear self-contained breathing apparatus and protective suit

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Use personal protective equipment. Avoid breathing vapors, mist or gas. Keep away from heat and sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2. Environmental precautions

Should not be released into the environment. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Work under hood. Do not inhale substance/mixture. Handle in accordance with good industrial hygiene and safety practice. Observe label precautions. Keep away from open flames, hot surfaces and sources of ignition.

Avoid formation of aerosols. Avoid exposure - obtain special instructions before use. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Store at +2°C to +8°C (36°F to 46°F).

7.3. Specific end uses

No data available.

8. Exposure controls/personal protection 8.1. Control parameters

Application Area	Routes of exposure	Health effect	Value
Workers	Skin contact	Long-term systemic effects	40mg/kg BW/d
Consumers	Skin contact	Long-term systemic effects	8mg/kg BW/d
Consumers	Ingestion	Long-term systemic effects	8mg/kg BW/d
Workers	Skin contact	Acute systemic effects	40mg/kg BW/d
Consumers	Skin contact	Acute systemic effects	8mg/kg BW/d
Consumers	Ingestion	Acute systemic effects	8mg/kg BW/d
Workers	Inhalation	Acute systemic effects	260 mg/m3
Workers	Inhalation	Acute local effects	260 mg/m3
Workers	Inhalation	Long-term systemic effects	260 mg/m3
Workers	Inhalation	Long-term local effects	260 mg/m3
Consumers	Inhalation	Acute systemic effects	50 mg/m3
Consumers	Inhalation	Acute local effects	50 mg/m3
Consumers	Inhalation	Long-term systemic effects	50 mg/m3
Consumers	Inhalation	Long-term local effects	50 mg/m3

*(External MSDS)

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightly fitting safety glasses

Skin/body protection

Protective/ impervious long sleeved clothing

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the related standard EN374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the substance/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has to be checked prior to the application.

Penetration time:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection

Required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands after working with substance. Do not inhale substance.

Environmental Exposure controls

Should not be released into the environment. Do not let product enter drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Form: liquid
Color	Colorless
Odor	Characteristic
Odor threshold	no data available
рН	no data available
Melting point/ freezing point	no data available
Initial boiling point/ boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	not applicable
Flammability limits in air	no data available
Vapor pressure	no data available
Relative density	no data available
Water solubility	Fully miscible
Partition coefficient: n-octanol/water	no data available

Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2. Other safety information

No data available.

10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions No data available.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Oxidizing agents, zinc alloys, acids.

10.6. Hazardous decomposition products

In the event of fire: See chapter 5.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

LD50 Oral	LD50 Dermal	LC50 Inhalation
Acute toxicity estimate Oral - 100,1	Acute toxicity estimate Dermal -	Acute toxicity estimate Inhalation - 4 h - 3,1
mg/kg	300,1 mg/kg	mg/l - vapor
(Expert judgment)	(Expert judgment)	(Expert judgment)
Symptoms: Nausea, Vomiting		Symptoms: Irritation symptoms in the
		respiratory tract.

*(External MSDS)

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

Irritations of mucous membranes.

Respiratory or skin sensitization

Sensitization test: guinea pig (External MSDS; methanol) Result: negative (IUCLID) (External MSDS; methanol)

Germ cell mutagenicity

Regarding the available data the classification criteria are not fulfilled.

Carcinogenity

No data available.

Reproductive toxicity

Regarding the available data the classification criteria are not fulfilled.

Specific target organ toxicity - single exposure

Target organs: Eyes (methanol) Causes damage to organs. (methanol)

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

12. Ecological information

12.1. Toxicitv

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Methanol (CAS 67-56-1)	96h EC50 Pseudokirchneriella subcapitata (green algae): ca. 22000 mg/l* 8d IC5 Scenedesmus quadricauda (green algae): 8000 mg/l*	200h NOEC Oryzias latipes (orange-red killifish): 7900 mg/l* 96h LC50 Lepomis macrochirus (Bluegill sunfish): 15400 mg/l*	16h EC5 Pseudomonas fluorescens: 6600 mg/l*	semi-static test EC50 - Daphnia magna (Water flea) - 18.260 mg/l - 96 h (OECD Test Guideline 202)

*(External MSDS)

12.2. Persistence and degradability

(Methanol) Biodegradability 99%; 30d OECD Test Guideline 301D Readily biodegradable.

Biochemical Oxygen Demand (BOD) 600 – 1120 mg/g (5d) (IUCLID)

Chemical Oxygen Demand (COD) 1420 mg/g (IUCLID)

Theoretical Oxygen Demand (ThOD) 1500 mg/g (Lit.)

Ratio BOD/ThBOD) BOD5 76% Closed bottle test

12.3. Bioaccumulative potential

Cyprinus carpio (Carp) - 72 d at 20 °C - 5 mg/l(Methanol) Bioconcentration factor (BCF): 1,0 *(External MSDS)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13. Disposal consid 13.1. Waste trea			
Waste from residues / unused products		Dispose of as hazardous waste in compliance with local and national regulations.	
Contamina	ted packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.	
14. Transport inform 14.1. UN/ID No ADR/RID: 19		IMDG: 1992	IATA: 1992
14.2. UN proper ADR/RID: IMDG: IATA:	FLAMMABLE FLAMMABLE	LIQUIDS, N.O.S. (Methanol) LIQUIDS, N.O.S. (Methanol) LIQUIDS, N.O.S. (Methanol)	
14.3. Transport I ADR/RID: 3		IMDG: 3 (6.1)	IATA: 3 (6.1)
14.4. Packaging ADR/RID: II	group	IMDG: II	IATA: II
14.5. Environme ADR/RID: no		IMDG Marine pollutant: no	IATA: no
14.1. Special pre No data ava		er	

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1. Safety, health and environmental regulations/legislation specific for the substance No information available.

15.2. Chemical safety assessment

No information available.

16. Other information

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

- H225 Highly flammable liquid and vapor.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.
- H370 Causes damage to organs.

Revision note: x

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this safety data sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.



1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Product name	Ochratoxin A Roasted Coffee Purification buffer
Product code	5127OTACRP

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

1.3. Details of the supplier of the safety data sheet

Company	R-Biopharm Nederland B.V.	
	Beijerinckweg 18	
	6827 BN Arnhem	
	Netherlands	
Telephone	+31 (0)26-363-0364	
Fax	+31 (0)26-364-5111	
E-mail address	info@r-biopharm.nl	

1.4. Emergency telephone number

Emergency phone # Please look for the emergency telephone number in your country before using this substance or mixture.

2. Hazards identification

2.1. Classification of the substance or mixture Classification (Regulation (EC) No 1272/2008)

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements Labelling (Regulation (EC) No 1272/2008) Not applicable.

2.3. Other hazards

Not applicable.

3. Composition/information on ingredients 3.1. Dangerous ingredients

Mixture of substances with none hazardous additions.

For the full text of the H-Statements mentioned in this Section, see Section 16. For more detailed information on health effects and symptoms, see Section 11.

4. First aid measures

4.1. Description of first aid measures

General advice	First aider needs to protect himself. Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse out with plenty of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off with plenty of water. Remove contaminated clothing. Consult a physician.

Ingestion	Rinse mouth with water. Do NOT induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.
Inhalation	Move person into fresh air. If not breathing, give artificial respiration. Immediately call in a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

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

Notes to physician	Treat symptomatically.	
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5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water, CO2, dry chemical or foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known based on information supplied.

5.2. Special hazards arising from the substance or mixture None known.

5.3. Advise for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2. Environmental precautions

Should not be released into the environment. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store at 2°C to 8°C (36°F to 46°F).

7.3. Specific end uses

No data available.

8. Exposure controls/personal protection

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Tightly fitting safety glasses

Skin/body protection Protective/ impervious long sleeved clothing

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the related standard EN374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the substance/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has to be checked prior to the application.

Penetration time:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands after working with substance. Do not inhale substance

Environmental Exposure controls

Should not be released into the environment. Do not let product enter drains.

9. Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
 - Appearance

Form: suspension

Color	Light green
Odor	no data available
Odor threshold	no data available
рН	no data available
Melting point/ freezing point	no data available
Initial boiling point/ boiling range	no data available
Flash point	not applicable
Evaporation rate	no data available
Flammability (solid, gas)	not applicable
Flammability limits in air	no data available
Vapor pressure	23 hPa
Relative density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	Product is not self igniting
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Product does not contain an explosion hazard
Oxidizing properties	no data available

9.2. Other safety information

No data available.

10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions Hazardous polymerization does not occur.

10.4. Conditions to avoid No data available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

In the event of fire: See chapter 5.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity No data available.

Skin corrosion/irritation No data available.

Serious eye damage/irritation No data available.

Respiratory or skin sensitization No data available.

Germ cell mutagenicity No data available.

Carcinogenity Contains no ingredient listed as a carcinogen

Reproductive toxicity No data available.

Specific target organ toxicity – single exposure No data available.

Specific target organ toxicity – repeated exposure No data available.

Aspiration hazard No data available.

12. Ecological information

- **12.1. Toxicity** No data available.
- **12.2. Persistence and degradability** No data available.
- **12.3. Bioaccumulative potential** No data available.
- 12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
. T urner and in farmer time	

14. Transport information 14.1. UN/ID No

ADR/RID: -

IMDG: -

IATA: -

IMDG: Not c	ng name langerous goods langerous goods langerous goods	
14.3. Transport hazard	class	
ADR/RID: -	IMDG: -	IATA: -
14.4. Packaging group		
ADR/RID: -	IMDG: -	IATA: -
14.5. Environmental haz	zards	
ADR/RID: -	IMDG Marine pollutant: -	IATA: -
14.6. Special precaution Not applicable.	ns for user	
15. Regulatory information		

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1. Safety, health and environmental regulations/legislation specific for the substance No information available.

15.2. Chemical safety assessment

No information available.

16. Other information

Full text of H-statements referred to under Sections 2 and 3 Not applicable

Revision note: x

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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SAFETY DATA SHEET According to Regulation (EC) No. 1907/2006 Version 01 Revision date: 20-04-2023 Print date: 20-4-2023



1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Product name	Reaction vial
Product code	5127OTACO

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

1.3. Details of the supplier of the safety data sheet

Company	R-Biopharm Nederland B.V.
	Beijerinckweg 18
	6827 BN Arnhem
	Netherlands
Telephone	+31 (0)26-363-0364
Fax	+31 (0)26-364-5111
E-mail address	info@r-biopharm.nl

1.4. Emergency telephone number

Emergency phone # Please look for the emergency telephone number in your country before using this substance or mixture.

2. Hazards identification

2.1. Classification of the substance or mixture Classification (Regulation (EC) No 1272/2008)

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements Labelling (Regulation (EC) No 1272/2008) Not applicable.

2.3. Other hazards

Not applicable.

3. Composition/information on ingredients 3.1. Dangerous ingredients

Mixture of substances with none hazardous additions.

For the full text of the H-Statements mentioned in this Section, see Section 16. For more detailed information on health effects and symptoms, see Section 11.

4. First aid measures

4.1. Description of first aid measures

General advice	First aider needs to protect himself. Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse out with plenty of water. Get medical attention immediately if symptoms occur.
Skin contact	Wash off with plenty of water. Remove contaminated clothing. Consult a physician.

Ingestion	Rinse mouth with water. Do NOT induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.
Inhalation	Move person into fresh air. If not breathing, give artificial respiration. Immediately call in a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

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

Notes to physician	Treat symptomatically.	
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5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water, CO2, dry chemical or foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known based on information supplied.

5.2. Special hazards arising from the substance or mixture None known.

5.3. Advise for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2. Environmental precautions

Should not be released into the environment. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store at 2°C to 8°C (36°F to 46°F).

7.3. Specific end uses

No data available.

8. Exposure controls/personal protection

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Tightly fitting safety glasses

Skin/body protection Protective/ impervious long sleeved clothing

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the related standard EN374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the substance/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has to be checked prior to the application.

Penetration time:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands after working with substance. Do not inhale substance

Environmental Exposure controls

Should not be released into the environment. Do not let product enter drains.

9. Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
 - Appearance

Form: powder

Color	Off-white
Odor	no data available
Odor threshold	no data available
рН	no data available
Melting point/ freezing point	not applicable
Initial boiling point/ boiling range	not applicable
Flash point	not applicable
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Flammability limits in air	no data available
Vapor pressure	no data available
Relative density	no data available
Water solubility	Fully soluble in water
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	Product is not self igniting
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Product does not contain an explosion hazard
Oxidizing properties	no data available

9.2. Other safety information No data available.

10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions Hazardous polymerization does not occur.

10.4. Conditions to avoid No data available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

In the event of fire: See chapter 5.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity No data available.

Skin corrosion/irritation No data available.

Serious eye damage/irritation No data available.

Respiratory or skin sensitization No data available.

Germ cell mutagenicity No data available.

Carcinogenity Contains no ingredient listed as a carcinogen

Reproductive toxicity No data available.

Specific target organ toxicity – single exposure No data available.

Specific target organ toxicity – repeated exposure No data available.

Aspiration hazard No data available.

12. Ecological information

- **12.1. Toxicity** No data available.
- **12.2. Persistence and degradability** No data available.
- **12.3. Bioaccumulative potential** No data available.
- 12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

14.1. UN/ID No

ADR/RID: -

IMDG: Not c	ng name langerous goods langerous goods langerous goods	
14.3. Transport hazard	class	
ADR/RID: -	IMDG: -	IATA: -
14.4. Packaging group		
ADR/RID: -	IMDG: -	IATA: -
14.5. Environmental haz	zards	
ADR/RID: -	IMDG Marine pollutant: -	IATA: -
14.6. Special precaution Not applicable.	ns for user	
15. Regulatory information		

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1. Safety, health and environmental regulations/legislation specific for the substance No information available.

15.2. Chemical safety assessment

No information available.

16. Other information

Full text of H-statements referred to under Sections 2 and 3 Not applicable

Revision note: x.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this safety data sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 Version 01 Revision date: 20-04-2023 Print date: 20-4-2023



1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Product name	Wash buffer
Product code	5127RB

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

1.3. Details of the supplier of the safety data sheet

Company	R-Biopharm Nederland B.V.
	Beijerinckweg 18
	6827 BN Arnhem
	Netherlands
Telephone	+31 (0)26-363-0364
Fax	+31 (0)26-364-5111
E-mail address	info@r-biopharm.nl

1.4. Emergency telephone number

Emergency phone # Please look for the emergency telephone number in your country before using this substance or mixture.

2. Hazards identification

2.1. Classification of the substance or mixture

- Classification (Regulation (EC) No 1272/2008)
- Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Labelling (Regulation (EC) No 1272/2008) Not applicable.

Additional information:

EUH208 Contains 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) May cause an allergic reaction

2.3. Other hazards

Not applicable.

3. Composition/information on ingredients

3.1. Dangerous ingredients

Mixture of substances with none hazardous additions.

For the full text of the H-Statements mentioned in this Section, see Section 16. For more detailed information on health effects and symptoms, see Section 11.

4. First aid measures

4.1. Description of first aid measures

General advice	First aider needs to protect himself. Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse out with plenty of water. Get medical attention immediately if symptoms occur.

Skin contact	Wash off with plenty of water. Remove contaminated clothing. Consult a physician.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.
Inhalation	Move person into fresh air. If not breathing, give artificial respiration. Immediately call in a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

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

Notes to physician Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water, CO2, dry chemical or foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known based on information supplied.

5.2. Special hazards arising from the substance or mixture None known.

5.3. Advise for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2. Environmental precautions

Should not be released into the environment. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end uses

No data available.

8. Exposure controls/personal protection

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Tightly fitting safety glasses

Skin/body protection

Protective/ impervious long sleeved clothing

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the related standard EN374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the substance/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has to be checked prior to the application.

Penetration time:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands after working with substance. Do not inhale substance

Environmental Exposure controls

Should not be released into the environment. Do not let product enter drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Form: liquid
Color	Colorless
Odor	no data available
Odor threshold	no data available
рН	no data available
Melting point/ freezing point	0°C (32°F)
Initial boiling point/ boiling range	100°C (212°F)
Flash point	not applicable
Evaporation rate	no data available
Flammability (solid, gas)	not applicable
Flammability limits in air	no data available
Vapor pressure	23 hPa
Relative density	no data available
Water solubility	Fully miscible
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	Product is not self igniting
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Product does not contain an explosion hazard
Oxidizing properties	no data available

9.2. Other safety information

No data available.

10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid No data available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

In the event of fire: See chapter 5.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity No data available.

Skin corrosion/irritation No data available.

Serious eye damage/irritation No data available.

Respiratory or skin sensitization No data available.

Germ cell mutagenicity No data available.

Carcinogenity Contains no ingredient listed as a carcinogen

Reproductive toxicity No data available.

Specific target organ toxicity – single exposure No data available.

Specific target organ toxicity – repeated exposure No data available.

Aspiration hazard

No data available.

12. Ecological information

12.1. Toxicity

No data available.

- **12.2. Persistence and degradability** No data available.
- **12.3. Bioaccumulative potential** No data available.
- 12.4. Mobility in soil

No data available.

- **12.5. Results of PBT and vPvB assessment** No data available.
- **12.6. Other adverse effects** No data available.

13. Disposal considerations

13.1. Waste treatment methods Waste from residues / unused products Dispose of as hazardous waste in compliance with local and national regulations. Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14.	Transport inform 14.1. UN/ID No	ation		
	ADR/RID: -		IMDG: -	IATA: -
	14.2. UN proper s	hipping name		
	ADR/RID:	Not dangerous	goods	
	IMDG:	Not dangerous	goods	
	IATA:	Not dangerous	goods	
	14.3. Transport h	azard class		
	ADR/RID: -		IMDG: -	IATA: -
	14.4. Packaging g	group		
	ADR/RID: -		IMDG: -	IATA: -
	14.5. Environmer	ntal hazards		
	ADR/RID: -		IMDG Marine pollutant: -	IATA: -
	14.6. Special pred Not applicable		er	

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1. Safety, health and environmental regulations/legislation specific for the substance No information available.

15.2. Chemical safety assessment

No information available.

16. Other information

Full text of H-statements referred to under Sections 2 and 3 Not applicable

Revision note: x

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Product name	Substrate
Product code	5127TMB

1.2. Relevant identified uses of the substance or mixture and uses advised against Identified uses Laboratory use. This product is a colorimetric solution for use in immunological in-vitro tests, based on the marker enzyme HRP.

1.3. Details of the supplier of the safety data sheet

Company	R-Biopharm Nederland B.V.
	Beijerinckweg 18
	6827 BN Arnhem
	Netherlands
Telephone	+31 (0)26-363-0364
Fax	+31 (0)26-364-5111
E-mail address	info@r-biopharm.nl

1.4. Emergency telephone number

Emergency phone # Please look for the emergency telephone number in your country before using this substance or mixture.

2. Hazards identification

2.1. Classification of the substance or mixture Classification (Regulation (EC) No 1272/2008) Not classified. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Labelling (Regulation (EC) No 1272/2008) Not applicable.

2.3. Other hazards

Contains oxidizing substance(s) < 0.05% Contains material(s) which may be harmful if swallowed.

3. Composition/information on ingredients

3.1. Dangerous ingredients

Chemical name	EC-No	CAS-No	Weight (%)	Classification (1272/2008/EC)
Citric acid	201-069-1	5949-29-1	1-10 %	Eye Irrit. 2 H319
Urea hydrogen peroxide	204-701-4	124-43-6	0 – 0.5 %	Ox. Sol 3: H272; Skin Corr. 1B: H314; Eye Dam. 1:H318

For the full text of the H-Statements mentioned in this Section, see Section 16. For more detailed information on health effects and symptoms, see Section 11.

4. First aid measures

4.1. Description of first aid measures

General advice

First aider needs to protect himself. Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye contact	Rinse out with plenty of water. Remember to remove contact lenses. Get medical attention immediately if symptoms occur.
Skin contact	Wash off with plenty of water. Remove contaminated clothing. Consult a physician.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.
Inhalation	Move person into fresh air. If not breathing, give artificial respiration. Immediately call in a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

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

Notes to physician Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water, CO2, dry chemical or foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known based on information supplied.

5.2. Special hazards arising from the substance or mixture None known.

5.3. Advise for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2. Environmental precautions

Should not be released into the environment. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store at 2°C to 8°C (36°F to 46°F).

7.3. Specific end uses

No data available.

8. Exposure controls/personal protection

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Tightly fitting safety glasses

Skin/body protection Protective/ impervious long sleeved clothing

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the related standard EN374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the substance/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has to be checked prior to the application.

Penetration time:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands after working with substance. Do not inhale substance

Environmental Exposure controls

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Form: liquid
Color	Clear/Light yellow
Odor	no data available
Odor threshold	no data available
рН	3.6 - 3.9
Melting point/ freezing point	no data available
Initial boiling point/ boiling range	no data available
Flash point	81.1°C
Evaporation rate	no data available
Flammability (solid, gas)	not applicable
Flammability limits in air	no data available
Vapor pressure	no data available
Relative density	no data available
Water solubility	Fully miscible
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	Product is not self igniting
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	Product does not contain an explosion hazard
Oxidizing properties	Contains <0.05% oxidizing materials

9.2. Other safety information

No data available.

10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid No data available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

In the event of fire: See chapter 5.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity No data available.

Skin corrosion/irritation May cause irritation to skin

Serious eye damage/irritation May cause irritation to eyes

Respiratory or skin sensitization May cause allergic reactions in susceptible people

Germ cell mutagenicity No data available.

Carcinogenity Contains no ingredient listed as a carcinogen

Reproductive toxicity No data available.

Specific target organ toxicity – single exposure No data available.

Specific target organ toxicity – repeated exposure No data available.

Aspiration hazard

No data available.

12. Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects No data available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues /	Dispose of as hazardous waste in compliance with local and
unused products	national regulations.

14. Transport inform 14.1. UN/ID No	ation					
ADR/RID: -		IMDG: -	IATA: -			
14.2. UN proper s	14.2. UN proper shipping name					
ADR/RID:	Not dangerous	-				
IMDG:	Not dangerous	-				
IATA:	Not dangerous	goods				
14.3. Transport h	azard class					
ADR/RID: -		IMDG: -	IATA: -			
14.4. Packaging	aroup					
ADR/RID: -	5 1	IMDG: -	IATA: -			
	stal banavda					
14.5. Environmer ADR/RID: -	ntal nazaros	IMDG Marine pollutant: -	IATA: -			
AUN/NIU		IMDG Marine politiant				
14.6. Special pre Not applicabl		r				

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1. Safety, health and environmental regulations/legislation specific for the substance No information available.

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

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

- H319 Causes serious eye irritation
- H272 May intensify fire; oxidiser.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

Revision note: x

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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