

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: RC795

Product No.: 000001014822

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

Identified uses: Offset plate finisher solution

Uses advised against: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Agfa Graphics NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4442111

Fax: +32 3 4447094

E-mail: electronic.sds@agfa.com

National Supplier

Agfa-Gevaert Ltd.
Vantage West
Great West Road
Brentford, Middlesex TW8 9AX
United Kingdom

Telephone: +44 (0)20 8 231 4616

Fax: +44 (0)20 8 231 4951

E-mail: electronic.sds@agfa.com

1.4 Emergency telephone number:

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements

not applicable

Supplemental label information

EUH210: Safety data sheet available on request.

Contains: 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one5-chloro-

2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

2.3 Other hazards

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: No data available.No hazardous ingredients.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
5-chloro-2-methyl-2H-isothiazol-3-one	>=0.0000 - <=0.0014%	26172-55-4	247-500-7	No data available.	No data available.	
2-Methyl-2H-isothiazol-3-one	>=0.0000 - <=0.048%	2682-20-4	220-239-6	No data available.	No data available.	
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	>=0.0 - <=0.048%	2634-33-5	220-120-9	No data available.	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	Notes
5-chloro-2-methyl-2H-isothiazol-3-one	Skin Corr.: 1B: H314 Acute Tox.: 3: H311 Acute Tox.: 3: H331 Aquatic Chronic: 1: H410 Aquatic Acute: 1: H400 Skin Sens.: 1: H317 Acute Tox.: 3: H301	No data available.
2-Methyl-2H-isothiazol-3-one	Skin Corr.: 1B: H314 Skin Sens.: 1: H317 Acute Tox.: 3: H301 Acute Tox.: 3: H311 Aquatic Acute: 1: H400 Acute Tox.: 3: H331 Aquatic Chronic: 1: H410	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Skin Sens.: 1: H317 Eye Dam.: 1: H318 Aquatic Acute: 1: H400 Skin Irrit.: 2: H315 Acute Tox.: 4: H302	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move to fresh air.

Eye contact: Rinse immediately with plenty of water.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: See section 11 of the SDS for additional information on health hazards.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Skin and/or eye contact. Flush thoroughly with water for at least 15 minutes. Get medical assistance.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

5.1 Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Put on protective equipment before entering danger area.

- 6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
- 6.3 Methods and material for containment and cleaning up:** Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.
- 6.4 Reference to other sections:** For personal protection see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store away from incompatible materials.
- 7.3 Specific end use(s):** Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None.

DNEL-Values

Critical component	type	Route of Exposure		Remarks
glycerine	Workers	Inhalation	56 mg/m ³	Irritating to respiratory system.
	General population	Oral	229 mg/kg	Repeated dose toxicity
	General population	Inhalation	33 mg/m ³	Irritating to respiratory system.
aminotris(methylenephosphonic acid)	General population	Oral	1.38 mg/kg	Effect on fertility
	General population	Inhalation	2.39 mg/m ³	Effect on fertility
	Workers	Inhalation	9.7 mg/m ³	Effect on fertility
	General population	Dermal	1.38 mg/kg	Effect on fertility
	Workers	Dermal	2.75 mg/kg	Effect on fertility
	General population	Dermal	1.38 mg/kg	Effect on fertility
	General population	Oral	1.38 mg/kg	Effect on fertility
	Workers	Dermal	2.75 mg/kg	Effect on fertility
	General population	Inhalation	2.39 mg/m ³	Effect on fertility
disodium hydrogenphosphate	General population	Inhalation	3.04 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	4.07 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	950 mg/m ³	Carcinogenicity

	Workers	Inhalation	1900 mg/m ³	Irritating to respiratory system.
	Workers	Dermal	343 mg/kg	Repeated dose toxicity

PNEC-Values

Critical component	Environmental compartment		Remarks
glycerine	Aquatic (marine water)	0.0885 mg/l	
	Marine sediments	0.33 mg/kg	
	Aquatic (freshwater)	0.885 mg/l	
	Sewage treatment plant	1000 mg/l	
	freshwater sediment	3.3 mg/kg	
	soil	0.141 mg/kg	
	Aquatic (intermit. releases)	8.85 mg/l	
aminotris(methylenephosphonic acid)	freshwater sediment	150 mg/kg	
	Sewage treatment plant	20 mg/l	
	Marine sediments	15 mg/kg	
	soil	244 mg/kg	
	Aquatic (freshwater)	0.46 mg/l	
	Aquatic (marine water)	0.046 mg/l	
	Predator	0.17 g/kg	
disodium hydrogenphosphate	Sewage treatment plant	50 mg/l	
	Aquatic (marine water)	0.005 mg/l	
	Aquatic (freshwater)	0.05 mg/l	
	Aquatic (intermit. releases)	0.5 mg/l	
ethanol; ethyl alcohol	Sewage treatment plant	580 mg/l	
	Aquatic (freshwater)	0.96 mg/l	
	Aquatic (intermit. releases)	2.75 mg/l	
	freshwater sediment	3.6 mg/kg	
	Aquatic (marine water)	0.79 mg/l	
	soil	0.63 mg/kg	
	Predator	0.72 g/kg	

8.2 Exposure controls

Appropriate Engineering Controls: Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Follow training instructions when handling this material.

Eye/face protection: Safety goggles. EN 166.

Skin protection

Hand Protection: Protective gloves should be used if there is a risk of direct contact or splash.(EN374) Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber. Glove thickness: > 0.70 mm Break-through time: > 480 min Risk of splashes: Nitrile rubber. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Other: Safety clothes : long sleeved clothing EN13688

Respiratory Protection: In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Dark red
Odor:	Nearly odourless
Odor Threshold:	No data available.
pH:	2.9
Freezing point:	< 0 °C
Boiling Point:	> 100 °C
Flash Point:	Not combustible.
Evaporation Rate:	No data available.
Flammability (solid, gas):	Not flammable.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	1.068 (20 °C)
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
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 information

VOC Content:	EC Directive 2004/42: 4.9 g/l ~0.49 % (calculated)
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SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Material is stable under normal conditions.
10.4 Conditions to avoid:	Avoid contact with strong acids. Avoid heat or contamination.
10.5 Incompatible Materials:	No data available.
10.6 Hazardous Decomposition Products:	No specified dangerous decomposition products are known. By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Skin Contact:	Moderately irritating to skin with prolonged exposure.
Eye contact:	Eye contact is possible and should be avoided.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	Not classified for acute toxicity based on available data.
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Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-	No data available.

one; 1,2-benzisothiazolin-3-one

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

Repeated dose toxicity

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

Serious Eye Damage/Eye Irritation:**Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	No data available.

Respiratory or Skin**Sensitization:****Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	No data available.

Germ Cell Mutagenicity**In vitro****Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	No data available.

In vivo**Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	No data available.

Carcinogenicity**Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H- No data available.

isothiazol-3-one

2-Methyl-2H-isothiazol-3- No data available.

one

1,2-benzisothiazol-3(2H)- No data available.

one; 1,2-benzisothiazolin-

3-one

Reproductive toxicity**Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H- No data available.

isothiazol-3-one

2-Methyl-2H-isothiazol-3- No data available.

one

1,2-benzisothiazol-3(2H)- No data available.

one; 1,2-benzisothiazolin-

3-one

Specific Target Organ Toxicity - Single Exposure**Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H- No data available.

isothiazol-3-one

2-Methyl-2H-isothiazol-3- No data available.

one

1,2-benzisothiazol-3(2H)- No data available.

one; 1,2-benzisothiazolin-

3-one

Specific Target Organ Toxicity - Repeated Exposure**Product:** No data available.**Specified substance(s)**

5-chloro-2-methyl-2H- No data available.

isothiazol-3-one

2-Methyl-2H-isothiazol-3- No data available.

one

1,2-benzisothiazol-3(2H)- No data available.

one; 1,2-benzisothiazolin-

3-one

Aspiration Hazard**Product:** No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one	No data available.
2-Methyl-2H-isothiazol-3-one	No data available.
1,2-benzisothiazol-3(2H)-one	No data available.

one; 1,2-benzisothiazolin-3-one

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

12.2 Persistence and Degradability**Biodegradation**

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

12.5 Results of PBT and vPvB assessment: Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

5-chloro-2-methyl-2H-isothiazol-3-one No data available.

2-Methyl-2H-isothiazol-3-one No data available.

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one No data available.

12.6 Other Adverse Effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Disposal methods: Wash before disposal. Dispose to controlled facilities.

SECTION 14: Transport information

ADR

14.1 UN Number: Not regulated.

- 14.2 UN Proper Shipping Name: Not regulated.
- 14.3 Transport Hazard Class(es) Not regulated.
- 14.4 Packing Group: Not regulated.
- 14.5 Environmental Hazards: Not regulated.
- 14.6 Special precautions for user: Not regulated.

RID

- 14.1 UN Number: Not regulated.
- 14.2 UN Proper Shipping Name: Not regulated.
- 14.3 Transport Hazard Class(es) Not regulated.
- 14.4 Packing Group: Not regulated.
- 14.5 Environmental Hazards: Not regulated.
- 14.6 Special precautions for user: Not regulated.

IMDG

- 14.1 UN Number: Not regulated.
- 14.2 UN Proper Shipping Name: Not regulated.
- 14.3 Transport Hazard Class(es) Not regulated.
- 14.4 Packing Group: Not regulated.
- 14.5 Environmental Hazards: Not regulated.
- 14.6 Special precautions for user: Not regulated.

IATA

- 14.1 UN Number: Not regulated.
- 14.2 UN Proper Shipping Name: Not regulated.
- 14.3 Transport Hazard Class(es) Not regulated.
- 14.4 Packing Group: Not regulated.
- 14.5 Environmental Hazards: Not regulated.
- 14.6 Special precautions for user: Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:
 none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
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ethanol; ethyl alcohol	64-17-5	- <0.1%
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Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso II): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	0 - <0.1%
2-Methyl-2H-isothiazol-3-one	2682-20-4	0 - <0.1%
ethanol; ethyl alcohol	64-17-5	0 - <0.1%
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	2634-33-5	0 - <0.1%

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	0 - <0.1%
2-Methyl-2H-isothiazol-3-one	2682-20-4	0 - <0.1%
ethanol; ethyl alcohol	64-17-5	0 - <0.1%
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	2634-33-5	0 - <0.1%

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant. Not relevant.

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

1,2-Benzisothiazol-3(2H)-one and 2-Methyl-2H-isothiazol-3-one: concentrations as mentioned in chapter 3 of this Safety Data Sheet are between 0.005% and less than 0.05%.
 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothi azolin-3-one [EC no. 220-239-6] (3:1): concentration as mentioned in chapter 3 of this Safety Data Sheet are between 0.00015 and less than 0.0015%.

H301 Toxic if swallowed.

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Training information: No data available.

Issue Date: 15.06.2016

SDS No.:

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.