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

1.1 Product identifier

Trade name: SILICONE EMULSION 35%-38%
UFI: J190-D0R3-200M-9PXS

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture: Mold release, polish, lubricant.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Kalogeropoulos Chemicals S.A.
D. Gounari 35, 185 31
Pireaus, Greece
Tel: +30 2104124518
Fax: +30 2104101607
e-mail: info@kalochem.gr
website: www.kalochem.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

*
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation EC No 1272/2008 CLP:

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation EC No 1272/2008 CLP:
The product is classified and labelled according to the CLP regulation.
Hazard pictograms:

GHS05 GHS07

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Signal word: Danger

Hazard-determining components of labelling:
Isotridecanol, branched, ethoxylated
2-octyl-2H-isothiazol-3-one

Hazard statements:
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
This mixture contains substances that are considered persistent, bioaccumulative and toxic (PBT).
This mixture contains substances that are considered to be highly persistent and highly bioaccumulative (aAaB).

PBT:	
CAS: 540-97-6	Dodecamethylcyclohexasiloxane
CAS: 541-02-6	Decamethylcyclopentasiloxane
CAS: 556-67-2	octamethylcyclotetrasiloxane

vPvB:	
CAS: 540-97-6	Dodecamethylcyclohexasiloxane
CAS: 541-02-6	Decamethylcyclopentasiloxane
CAS: 556-67-2	octamethylcyclotetrasiloxane

Determination of endocrine-disrupting properties		
CAS: 540-97-6	Dodecamethylcyclohexasiloxane	List II
CAS: 541-02-6	Decamethylcyclopentasiloxane	List II
CAS: 556-67-2	octamethylcyclotetrasiloxane	List II; III

*
SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture: consisting of the following components.

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Ingredients according Regulation (EU) 2020/878:		
CAS: 69011-36-5	Isotridecanol, branched, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302	≥2.5-<5%
CAS: 69011-36-5	Isotridecanol, branched, ethoxylated Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥2.5-<5%
CAS: 540-97-6 EINECS: 208-762-8	Dodecamethylcyclohexasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	≥0.1-<0.5%
CAS: 541-02-6 EINECS: 208-764-9	Decamethylcyclopentasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	≥0.1-<0.5%
CAS: 556-67-2 EINECS: 209-136-7 Index number: 014-018-00-1	octamethylcyclotetrasiloxane Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Chronic 1, H410 (M=10) Substance identified as having endocrine disrupting properties (II; III) PBT; vPvB	≥0.1-<0.25%
CAS: 52-51-7 EINECS: 200-143-0 Index number: 603-085-00-8 Reg.nr.: 01-2119980938-15-XXXX	bronopol (INN) Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	≥0.01-<0.05%
CAS: 26530-20-1 EINECS: 247-761-7 Index number: 613-112-00-5	2-octyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 ATE: LD50 oral: 125 mg/kg LD50 dermal: 311 mg/kg LC50 (4h) inhalative: 0.27 ppm Specific concentration limit: Skin Sens. 1A; H317: C ≥0.0015 %	≥0.001-<0.01%

SVHC	
CAS: 540-97-6	Dodecamethylcyclohexasiloxane
CAS: 541-02-6	Decamethylcyclopentasiloxane
CAS: 556-67-2	octamethylcyclotetrasiloxane

Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
Immediate medical attention is required.
Show the doctor the Safety Data Sheet.
After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact:
Remove contaminated clothing.
Wash immediately with soap and plenty of water for at least 15 minutes.
May cause an allergic skin reaction.
In case of skin irritation or allergic reactions, consult a doctor.
After eye contact:
Rinse opened eye for at least 15 minutes under running water.
Remove contact lenses and continue rinsing for several minutes
If skin irritation continues, consult a doctor.
Avoid strong water jet-risk of cornea damage, consult a doctor.
After swallowing:
Wash out mouth with water and seek for medical advice.
Never give something by mouth to an unconscious person
Do not induce vomiting.
4.2 Most important symptoms and effects, both acute and delayed
Burning sensation. Itching. Rashes. Hives.
4.3 Indication of any immediate medical attention and special treatment needed
May cause sensitisation in susceptible individuals.
Proceed with treatment depending on symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: CO2, dry powder and foam resistant to alcohol.
5.2 Special hazards arising from the substance or mixture
Carbon Dioxide (CO2), Carbon Monoxide, Nitrogen Oxides (NOx), Silica and Formaldehyde.
5.3 Advice for firefighters
Protective equipment: Self-contained breathing apparatus and protective clothing in case of fire.
Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
Avoid contact with the skin, eyes and clothing.
Ensure adequate ventilation.
6.1.1 For non-emergency personnel
Avoid contact with dripping or leaking material
Stop the leak, if this can be done safely.
Use personal protective equipment.

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6.1.2 For emergency responders
First-aid responders must wear protectice clothing, gloves, goggles and respiratory device with filter type A.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).
Dispose contaminated material as waste according to section 13.
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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid contact with eyes, hands and clothing.
Ensure adequate ventilation.
Do not eat, drink or smoke at the workplace.
Wash contaminated clothes before reusing them.
Use Personal Protective Equipment.
Information about fire - and explosion protection: No special measures required.
7.2 Conditions for safe storage, including any incompatibilities
Storage: Store in well-sealed containers and in well-ventilated areas. Keep it cool.
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: (see Section 10.5)
Further information about storage conditions: Keep out of the reach of children.
7.3 Specific end use(s) No further relevant information available.

*
SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
DNELs No information available.
PNECs No information available.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Provide adequate ventilation.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Avoid contact with skin, eyes and clothing.
Do not eat, drink or smoke while using the product.
Clean skin thoroughly immediately after handling the product.
Remove contaminated clothes and wash before reusing them.

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Respiratory protection:

In conditions of inadequate ventilation, use an appropriate respirator.

Hand protection

Wear suitable gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
Nitrile rubber gloves - NBR
Thickness: (0,4 mm)
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.
Penetration time of glove material
Penetration time ≥ 480 minutes.
The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
Eye/face protection

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Protective work clothing

Environmental exposure controls
If significant spills cannot be contained, the local authorities should be notified.

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	White
Odour:	Light
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined

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Upper:	Not determined
Flash point:	Not Flammable
Auto-ignition temperature:	Not specified
Decomposition temperature:	Not determined
pH at 20 °C	6-7
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water:	Not determined
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C:	0.98-1 g/cm³
Relative density	Not determined
Vapour density	Not determined

9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	Not applicable
Fusion temperature / range:	Not applicable
Oxidising properties	Not oxidising
Evaporation rate	Not determined

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

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SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions
10.2 Chemical stability
Thermal decomposition / conditions to be avoided
No decomposition if used and stored according to specifications.
Stable at environment temperature.
10.3 Possibility of hazardous reactions No dangerous reactions known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials
Acids
Bases
Oxidising agents
10.6 Hazardous decomposition products
No dangerous decomposition products known.
Thermal decomposition can lead to the release of irritating and toxic gases and vapours. Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx). Silica. If this product is heated > 150 degrees C, traces of formaldehyde may be released and proper ventilation is necessary.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	30,159.90 mg/kg
Dermal	LD50	57,336.10 mg/kg

CAS: 52-51-7 bronopol (INN)		
Oral	LD50	180 mg/kg (rat)
Dermal	LD50	1600 mg/kg (rat)
Inhalative	LC50(6h)	> 5 g/m³ (rat)
CAS: 26530-20-1 2-octyl-2H-isothiazol-3-one		
Oral	LD50	125 mg/kg (ATE)
Dermal	LD50	311 mg/kg (ATE)
Inhalative	LC50 (4h)	0.27 ppm (ATE)
CAS: 69011-36-5 Isotridecanol, branched, ethoxylated		
Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
CAS: 69011-36-5 Isotridecanol, branched, ethoxylated		
Oral	LD50	> 300 - 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)

Specific symptoms in biological assay:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Causes serious eye damage.

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Respiratory or skin sensitisation May cause an allergic skin reaction.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
Additional toxicological information:
Repeated dose toxicity Based on available data, the classification criteria are not met.
11.2 Information on other hazards

Endocrine disrupting properties		
CAS: 540-97-6	Dodecamethylcyclohexasiloxane	List II
CAS: 541-02-6	Decamethylcyclopentasiloxane	List II
CAS: 556-67-2	octamethylcyclotetrasiloxane	List II; III

*
SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
CAS: 26530-20-1 2-octyl-2H-isothiazol-3-one	
EC10(48h)	0.000224 mg/L (algae) (OECD 201)
EC50(48h)	0.00129 mg/L (algae) (OECD 201)
	0.42 mg/L (Daphnia magna) (OECD 202)
EC50(72h)	0.0015 mg/L (Skeletonema costatum) (OECD 201)
	0.084 mg/L (Desmodesmus subspicatus) (OECD 201)
LC50(96h)	0.036 mg/L (On) (OECD 203)
NOEC(21d)	0.002 mg/L (Daphnia magna) (OECD 211)
NOEC(28d)	0.022 mg/L (On) (OECD 210)
NOEC(72h)	0.00068 mg/L (Skeletonema costatum) (OECD 201)
CAS: 69011-36-5 Isotridecanol, branched, ethoxylated	
EC50(48h)	> 1 - 10 mg/L (Daphnia magna) (OECD 202)
EC50(72h)	> 1 - 10 mg/L (algae) (OECD 201)
LC50(96h)	> 1 - 10 mg/L (Cyprinus Carpio) (OECD 203)
NOEC(21d)	1.36 mg/L (Daphnia magna)

12.2 Persistence and degradability
Isotridecanol, branched, ethoxylated (69011-36-5) - Biodegradation: > 60 % (672h OECD 301B).
Bronopol (52-51-7) - Biodegradation: > 70 % (OECD 301 B).
2-Octyl-2H-isothiazol-3-one (26530-20-1) - Biodegradation: 0.6% (33.6h OECD 309).
12.3 Bioaccumulative potential
Bronopol: 0.38 (Allocation factor)
2-Octyl-2H-isothiazol-3-one: 2.92 (Allocation factor)
12.4 Mobility in soil No further relevant information available.

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12.5 Results of PBT and vPvB assessment
This mixture contains substances that are considered persistent, bioaccumulative and toxic (PBT).
This mixture contains substances that are considered to be highly persistent and highly bioaccumulative (aAaB).

PBT:	
CAS: 540-97-6	Dodecamethylcyclohexasiloxane
CAS: 541-02-6	Decamethylcyclopentasiloxane
CAS: 556-67-2	octamethylcyclotetrasiloxane

vPvB:	
CAS: 540-97-6	Dodecamethylcyclohexasiloxane
CAS: 541-02-6	Decamethylcyclopentasiloxane
CAS: 556-67-2	octamethylcyclotetrasiloxane

12.6 Endocrine disrupting properties
For information on endocrine disruption properties, see sections 2.3 & 11.2.
12.7 Other adverse effects
Remark: Harmful to fish
Additional ecological information:
General notes:
Must not reach sewage water or drainage ditch undiluted or unneutralised.
The product contains materials that are harmful to the environment.
Harmful to aquatic organisms

*
SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation

Dispose according to National Regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Uncleaned packaging:
Recommendation:
Contaminated packaging must be completely emptied and can be reused after proper cleaning. Clean medium-capacity containers for bulk cargo or drums in approved facilities.
Packaging that cannot be properly cleaned should be disposed of. Contaminated packaging must be handled in the same way as the product.
Disposal must be made according to official regulations.

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SECTION 14: Transport information

14.1 UN number or ID number	Unenforceable. Not classified as dangerous for transport.
ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	If IATA criteria are met, product is classified as: ID Number:8000 Class: 9 Proper Shipping name: Consumer Commodity
UN "Model Regulation":	Void

*

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation 1907/2006/EC
Regulation (EU) 2020/878
CLP Regulation 1272/2008/EC
Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.
Council Directive 94/33/EC on the protection of young people at work, as ammended.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as ammended
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 70

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations: None

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57	
CAS: 540-97-6	Dodecamethylcyclohexasiloxane
CAS: 541-02-6	Decamethylcyclopentasiloxane
CAS: 556-67-2	octamethylcyclotetrasiloxane

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

*
SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful 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.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Classification according to Regulation (EC) No 1272/2008	
Serious eye damage/irritation Skin sensitisation Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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Department issuing SDS:

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Date of previous version: 13.10.2023
Version number of previous version: 2

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1: Skin corrosion/irritation – Category 1
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**