



MEIKO ACTIVE M-5900 PCL

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.
Issue date: 24/04/2024 Revision date: 24/04/2024 Version: 1.00

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

1.1. Product identifier

Product form : Mixture
Trade name : MEIKO ACTIVE M-5900 PCL
Type of product : Detergent

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Cleaning agent
Machine dishwashing products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier

i-clean Technologies GmbH
Mallaustr. 69
DE- 68219 Mannheim
Germany

T +49 (0) 621 92109040 - F +49 (0) 621 92109041

info@i-clean-technologies.com - www.i-clean-technologies.com

Email competent person

sds@kft.de

Distributor

MEIKO UK Ltd.
393 Edinburgh Avenue
GB- Slough, Berkshire, SL1 4UF

1.4. Emergency telephone number

Emergency number : 0049 621 845799731

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Health Service (NHS) England / Scotland / Wales / Northern Ireland	-	England / Scotland: 111 Wales: 111 or 0845 46 47 Northern Ireland: call your local General Practitioner. For life-threatening emergencies: call 999 for an ambulance.	24 h medical helpline for general public

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Oxidising Solids, Category 2 H272
Corrosive to metals, Category 1 H290
Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory
tract irritation H335
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

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Adverse physicochemical, human health and environmental effects

May be corrosive to metals. May intensify fire; oxidiser. May cause respiratory irritation. Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GB CLP)



Signal word (GB CLP)

Contains

Hazard statements (GB CLP)

Precautionary statements (GB CLP)

EUH-statements (GB CLP)

- : Danger
- : sodium hydroxide; disodium metasilicate; troclosene sodium
- : H272 - May intensify fire; oxidiser.
- H290 - May be corrosive to metals.
- H314 - Causes severe skin burns and eye damage.
- H335 - May cause respiratory irritation.
- H411 - Toxic to aquatic life with long lasting effects.
- : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 - Do not breathe dust.
- P273 - Avoid release to the environment.
- P280 - Wear protective clothing, protective gloves, eye protection, face protection.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER, a doctor.
- P390 - Absorb spillage to prevent material damage.
- : EUH031 - Contact with acids liberates toxic gas.

2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with UK REACH Annex XIII

Component	
sodium hydroxide (1310-73-2)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
disodium metasilicate (6834-92-0)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
troclosene sodium (2893-78-9)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
sodium carbonate (497-19-8)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
Alcohols, C12-13, ethoxylated (66455-14-9)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII

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allyl heptanoate (142-19-8)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

Component	
sodium hydroxide(1310-73-2)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP
disodium metasilicate(6834-92-0)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP
troclosene sodium(2893-78-9)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP
sodium carbonate(497-19-8)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP
Alcohols, C12-13, ethoxylated(66455-14-9)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP
allyl heptanoate(142-19-8)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 UK Index-No.: 011-002-00-6	≥ 25 – < 50	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
disodium metasilicate	CAS-No.: 6834-92-0 EC-No.: 229-912-9 UK Index-No.: 014-010-00-8	≥ 20 – < 25	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=666.7 mg/kg bodyweight) Skin Corr. 1B, H314 STOT SE 3, H335
troclosene sodium (Note G)	CAS-No.: 2893-78-9 EC-No.: 220-767-7 UK Index-No.: 613-030-00-X	≥ 10 – < 20	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 (ATE=1400 mg/kg bodyweight) Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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sodium carbonate	CAS-No.: 497-19-8 EC-No.: 207-838-8 UK Index-No.: 011-005-00-2	≥ 5 – < 10	Eye Irrit. 2, H319
Alcohols, C12-13, ethoxylated	CAS-No.: 66455-14-9 EC-No.: 500-165-3	≥ 2.5 – < 5	Eye Irrit. 2, H319
allyl heptanoate	CAS-No.: 142-19-8 EC-No.: 205-527-1	< 0.1	Acute Tox. 3 (Oral), H301 (ATE=218 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=810 mg/kg bodyweight) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 UK Index-No.: 011-002-00-6	(0.5 ≤ C < 2) Skin Irrit. 2, H315 (0.5 ≤ C < 2) Eye Irrit. 2, H319 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C ≤ 100) Skin Corr. 1A, H314
troclosene sodium	CAS-No.: 2893-78-9 EC-No.: 220-767-7 UK Index-No.: 613-030-00-X	(10 ≤ C ≤ 100) STOT SE 3, H335 (10 ≤ C ≤ 100) EUH031

Note G: This substance may be marketed in an explosive form in which case it must be evaluated using the appropriate test methods. The classification and labelling provided shall reflect the explosive properties.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: May intensify fire; oxidiser.
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Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides. Phosphorus oxides. Sulphur oxides. Metal oxides. Silicon oxide. Hydrogen chloride. Chlorine.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Avoid dust formation.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Reacts violently with combustible materials: risk of spontaneous ignition.

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Incompatible materials : Metals. combustible materials.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs.

Special rules on packaging : Store in original container or corrosive resistant and/or lined container.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

sodium hydroxide (1310-73-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

sodium hydroxide (1310-73-2)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1 mg/m ³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1 mg/m ³
disodium metasilicate (6834-92-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1.49 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.22 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.74 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.55 mg/m ³
Long-term - systemic effects, dermal	0.74 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	7.5 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	7.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	1000 mg/l
troclosene sodium (2893-78-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2.3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8.11 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1.15 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.99 mg/m ³

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Long-term - systemic effects, dermal	1.15 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.17 µg/L
PNEC aqua (marine water)	1.52 mg/l
PNEC aqua (intermittent, freshwater)	1.7 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	7.56 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.756 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.59 mg/l
sodium carbonate (497-19-8)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	5 mg/m ³
Alcohols, C12-13, ethoxylated (66455-14-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2080 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	294 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	87 mg/m ³
Long-term - systemic effects, dermal	1250 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	80 µg/L
PNEC aqua (marine water)	8 µg/L
PNEC aqua (intermittent, freshwater)	2.8 µg/L
PNEC aqua (intermittent, marine water)	0.28 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	63.83 mg/kg dwt
PNEC sediment (marine water)	6.38 mg/kg dwt
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
allyl heptanoate (142-19-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.84 mg/kg bodyweight/day

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Long-term - systemic effects, inhalation	2.97 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.42 (≤) mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.73 mg/m ³
Long-term - systemic effects, dermal	0.42 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	5.05 µg/L
PNEC aqua (marine water)	0.505 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	0.507 µg/L
PNEC sediment (marine water)	57 µg/L
PNEC (Soil)	
PNEC soil	98 µg/kg dw
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection - Report preview:

In case of dust production: protective goggles. Wear closed safety glasses. ISO 16321-1. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

8.2.2.2. Skin protection

Skin and body protection - Report preview:

Wear suitable protective clothing. EN ISO 13688

Hand protection - Report preview:

In case of repeated or prolonged contact wear gloves. Chemically resistant protective gloves. For undissolved solid substances following materials may be suitable: Butyl rubber, Chloroprene rubber, Fluoroelastomer (FKM), Nitrile rubber. ISO 374-1. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

8.2.2.3. Respiratory protection

Respiratory protection - Report preview:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust formation: dust mask. P2. EN 143. . Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: white.
Appearance	: Powder.
Odour	: perfumed.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: Contact with combustible material may cause fire
Explosive properties	: Product is not explosive. Dust may form explosive mixture in air.
Oxidising properties	: May intensify fire; oxidiser. Non oxidizing.
Explosive limits	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: ≈ 230 °C
Decomposition temperature	: Not available
pH	: 12.5 (1 % Solution)
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: Water: Exothermically soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not applicable
Vapour pressure at 50°C	: Not available
Density	: 920 kg/m ³ (Bulk density)
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

May intensify fire; oxidiser.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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10.5. Incompatible materials

metals. Combustible materials. Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

troclosene sodium (2893-78-9)

LD50 oral rat	1400 mg/kg bodyweight
LD50 dermal rat	> 5000 mg/kg bodyweight
ATE GB CLP (oral)	1400 mg/kg bodyweight

allyl heptanoate (142-19-8)

LD50 oral rat	218 mg/kg bodyweight (OECD 201 method)
LD50 dermal rat	810 mg/kg bodyweight (OECD 402 method)
ATE GB CLP (oral)	218 mg/kg bodyweight
ATE GB CLP (dermal)	810 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns.
pH: 12.5 (1 % Solution)
Serious eye damage/irritation : Causes serious eye damage.
pH: 12.5 (1 % Solution)
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : May cause respiratory irritation.

disodium metasilicate (6834-92-0)

STOT-single exposure	May cause respiratory irritation.
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troclosene sodium (2893-78-9)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	Not applicable
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

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Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.
(chronic)

troclosene sodium (2893-78-9)	
LC50 - Fish [1]	0.24 mg/l (96 h; Oncorhynchus mykiss; Read-across CAS 87-90-1)
EC50 - Crustacea [1]	0.196 mg/l (48 h; Daphnia magna; Read-across CAS 51580-86-0)
ErC50 algae	> 100 mg/l (72 h; Skeletonema costatum)
NOEC chronic fish	1000 mg/l (28 d; Oncorhynchus mykiss; (OECD 215 method))
NOEC chronic crustacea	160 mg/l (21 d; Daphnia magna; (OECD 211 method))
NOEC chronic algae	100 mg/l (72 h; Skeletonema costatum)

allyl heptanoate (142-19-8)	
LC50 - Fish [1]	0.0505 mg/l (96h; Danio rerio; (OECD 201 method))
EC50 - Crustacea [1]	0.89 mg/l (48h; Daphnia magna; (OECD 202 method))
ErC50 algae	1.94 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))
NOEC chronic fish	0.059 ppm (33d; Pimephales promelas; (OECD 210 method))
NOEC chronic crustacea	0.528 mg/l (Quantitative structure-activity relationship (QSAR))

12.2. Persistence and degradability

MEIKO ACTIVE M-5900 PCL	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

sodium hydroxide (1310-73-2)	
Persistence and degradability	Not applicable for inorganic substances..

disodium metasilicate (6834-92-0)	
Persistence and degradability	Not applicable for inorganic substances..

troclosene sodium (2893-78-9)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	2 % (28 d; (OECD 301D method); Read-across CAS: 87-90-1)

sodium carbonate (497-19-8)	
Persistence and degradability	Not applicable for inorganic substances..

Alcohols, C12-13, ethoxylated (66455-14-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	95 % (28 d; (OECD 301F method))

allyl heptanoate (142-19-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	81 % (28 d; (OECD 301F method))

12.3. Bioaccumulative potential

MEIKO ACTIVE M-5900 PCL	
Bioaccumulative potential	The product has not been tested.

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sodium hydroxide (1310-73-2)	
Bioaccumulative potential	Not applicable for inorganic substances.
disodium metasilicate (6834-92-0)	
Bioaccumulative potential	Bioaccumulation unlikely.
troclosene sodium (2893-78-9)	
Bioaccumulative potential	Bioaccumulation unlikely.
sodium carbonate (497-19-8)	
Bioaccumulative potential	Not applicable for inorganic substances.
Alcohols, C12-13, ethoxylated (66455-14-9)	
Bioaccumulative potential	Bioaccumulation unlikely.
allyl heptanoate (142-19-8)	
Partition coefficient n-octanol/water (Log Pow)	3.97 (OECD 107 method)
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

MEIKO ACTIVE M-5900 PCL	
Ecology - soil	The product has not been tested.
sodium hydroxide (1310-73-2)	
Ecology - soil	Expected to be highly mobile in soil.
disodium metasilicate (6834-92-0)	
Ecology - soil	Expected to be highly mobile in soil.
troclosene sodium (2893-78-9)	
Ecology - soil	Expected to be highly mobile in soil.
sodium carbonate (497-19-8)	
Ecology - soil	Expected to be highly mobile in soil.
allyl heptanoate (142-19-8)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.33 – 3.36 Quantitative structure-activity relationship (QSAR)
Ecology - soil	Low mobility (soil).

12.5. Results of PBT and vPvB assessment

Component	
sodium hydroxide (1310-73-2)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
disodium metasilicate (6834-92-0)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII

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troclosene sodium (2893-78-9)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
sodium carbonate (497-19-8)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
Alcohols, C12-13, ethoxylated (66455-14-9)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII
allyl heptanoate (142-19-8)	This substance/mixture does not meet the PBT criteria of UK REACH regulation, Annex XIII This substance/mixture does not meet the vPvB criteria of UK REACH regulation, Annex XIII

12.6. Other adverse effects

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Disposal must be done according to official regulations. Do not discharge into drains or the environment. Do not dispose of with domestic waste.
Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.
European List of Waste (LoW, EC 2000/532)	: 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3085	UN 3085	UN 3085	UN 3085	UN 3085
14.2. UN proper shipping name				
OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide)	OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide)	Oxidizing solid, corrosive, n.o.s. (troclosene sodium ; sodium hydroxide)	OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide)	OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide)
Transport document description				
UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide), 5.1 (8), II, (E), ENVIRONMENTALLY HAZARDOUS	UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide), 5.1 (8), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3085 Oxidizing solid, corrosive, n.o.s. (troclosene sodium ; sodium hydroxide), 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS	UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide), 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS	UN 3085 OXIDIZING SOLID, CORROSIVE, N.O.S. (troclosene sodium ; sodium hydroxide), 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
5.1 (8)	5.1 (8)	5.1 (8)	5.1 (8)	5.1 (8)

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14.4. Packing group

II	II	II	II	II
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14.5. Environmental hazards

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

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: OC2
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 1kg
Excepted quantities (ADR)	: E2
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 58
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 1W

Transport by sea

Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 1 kg
Excepted quantities (IMDG)	: E2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-Q
Stowage and handling (IMDG)	: H1
Segregation (IMDG)	: SG38, SG49, SG60

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y544
PCA limited quantity max net quantity (IATA)	: 2.5kg
PCA packing instructions (IATA)	: 558
PCA max net quantity (IATA)	: 5kg
CAO max net quantity (IATA)	: 25kg
Special provisions (IATA)	: A3, A803

Inland waterway transport

Classification code (ADN)	: OC2
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2

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Rail transport

Classification code (RID)	: OC2
Special provisions (RID)	: 274
Limited quantities (RID)	: 1kg
Excepted quantities (RID)	: E2
Transport category (RID)	: 2
Hazard identification number (RID)	: 58

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations : Regulation (EC) No. 648/2004 of 31 March 2004 on detergents. Take note of Directive 94/33/EC on the protection of young people at work.

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	allyl heptanoate
3(c)	allyl heptanoate

Seveso Directive (Disaster Risk Reduction)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P8 OXIDISING LIQUIDS AND SOLIDS Oxidising Liquids, Category 1, 2 or 3, or Oxidising Solids, Category 1, 2 or 3	50	200
E2 Hazardous to the Aquatic Environment in Category Chronic 2	200	500

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Detergent Regulation (648/2004)

Labelling of contents	
Component	%
phosphates	≥15-<30%
chlorine-based bleaching agents	≥5-<15%
non-ionic surfactants	<5%
perfumes	

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Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. United Kingdom

National regulations : Take note of Directive 92/85/EC on the safety and health of pregnant workers at work.

UK REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

UK REACH Candidate List (SVHC)

Contains no substance(s) listed on the UK REACH Candidate List

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes (UK)			
Section	Changed item	Change	Comments
	General revision		
3.2	Composition	Modified	
1.1	Trade name	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Information provided by the manufacturer. MSDSs of the suppliers. European Chemicals Agency, <http://echa.europa.eu/>.

Department issuing data specification sheet: : KFT Chemieservice GmbH
Im Leuschnerpark 3
D-64347 Griesheim

Phone: +49 6155-8981-400
Fax: +49 6155 8981-500
SDS Service: +49 6155 8981-522

Contact person : Dr. Julia Wack
Other information : Version/s 1.00 is/are not available in this language.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH031	Contact with acids liberates toxic gas.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Ox. Sol. 2	H272	Calculation method
Met. Corr. 1	H290	Calculation method
Skin Corr. 1	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
STOT SE 3	H335	Calculation method
Aquatic Chronic 2	H411	Calculation method

KFT SDS UK 05 - Version 23.2

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