SAFETY DATA SHEET

Multiklor

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

1.1. Product identifier

Trade name

Multiklor

Product no.

1709,1710

Unique formula identifier (UFI)

Y390-20E6-K00P-YYU6

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

Relevant identified uses of the substance or mixture

Disinfectant for water

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

Swim & Fun Scandinavia ApS
Ledreborg Allé 128K
4000 Roskilde
Denmark
+45 7022 6856

E-mail

info@swim-fun.com

Revision

01/03/2023

SDS Version

2.0

Date of previous version

30/01/2023 (1.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute Tox. 4; H302, Harmful if swallowed.
Eye Irrit. 2; H319, Causes serious eye irritation.
STOT SE 3; H335, May cause respiratory irritation.
Aquatic Acute 1; H400, Very toxic to aquatic life.
Aquatic Chronic 1; H410, Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Harmful if swallowed. (H302)
Causes serious eye irritation. (H319)
May cause respiratory irritation. (H335)
Very toxic to aquatic life with long lasting effects. (H410)

Safety statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)

▼Prevention

Use only outdoors or in a well-ventilated area. (P271)

▼Response

Call a POISON CENTER/doctor if you feel unwell. (P312)
Collect spillage. (P391)
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

▼Storage

-

Disposal

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances

symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion

▼Additional labelling

EUH031, Contact with acids liberates toxic gas.
EUH206, Warning! Do not use together with other products. May release dangerous gases (chlorine).
Active substance(s):
Chlorine (0.001 g/100g)
UFI: Y390-20E6-K00P-YYU6

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion	CAS No.: 87-90-1 EC No.: 201-782-8 UK-REACH: Index No.: 613-031-00-5	> 90%	EUH031 Ox. Sol. 2, H272 Acute Tox. 4, H302 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Aluminium,Sulphate	CAS No.: 10043-01-3 EC No.: 233-135-0 UK-REACH: Index No.:	< 2.5%	Met. Corr. 1, H290 Eye Dam. 1, H318	
Chlorine	CAS No.: 7782-50-5 EC No.: 231-959-5 UK-REACH: Index No.:	<0.0015%		[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

▼Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds
Sulphur oxides
Nitrogen oxides (NO_x)
Carbon oxides (CO / CO2)
Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

No special conditions required.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Aluminium,Sulphate
Long term exposure limit (8 hours) (mg/m³): 2

Chlorine
Short term exposure limit (15 minutes) (ppm): 0,5
Short term exposure limit (15 minutes) (mg/m³): 1,5

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

▼DNEL

Aluminium,Sulphate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	3,8 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	3,3 mg/m³
Long term – Systemic effects - Workers	Inhalation	13,4 mg/m³
Long term – Systemic effects - General population	Oral	3,4 mg/kg
Long term – Systemic effects - General population	Oral	1,9 mg/kg bw/day

▼PNEC

Aluminium,Sulphate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,0003 mg/L
Marine water		0,00003 mg/L
Sewage treatment plant		20 mg/L

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards	
S/SL	P2	White	EN149	

Skin protection

No specific requirements.

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Latex	0.4	-	EN374-2, EN388	
Vinyl/PVC	-	-	EN374-3, EN388	

Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid

Colour

Blue

Odour / Odour threshold

Characteristic

▼pH

2.5 - 4 (water: 10 g/l, 20 °C)

▼Density (g/cm³)

1.9

▼Kinematic viscosity

No data available

▼Particle characteristics

No data available

Phase changes

Melting point/Freezing point (°C)

246,80000000

Softening point/range (waxes and pastes) (°C)

Does not apply to solids.

▼Boiling point (°C)

No data available

▼Vapour pressure

66.9 Pa (20 °C)

Relative vapour density
Does not apply to solids.
▼Decomposition temperature (°C)
No data available

Data on fire and explosion hazards
▼Flash point (°C)
No data available
▼Flammability (°C)
No data available
▼Auto-ignition temperature (°C)
No data available
▼Lower and upper explosion limit (% v/v)
No data available

Solubility
▼Solubility in water
Completely soluble (9.4 g/l)
▼n-octanol/water coefficient
-1.31
▼Solubility in fat (g/L)
No data available

9.2. Other information
▼Evaporation rate (n-butylacetate = 100)
No data available
Other physical and chemical parameters
No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Contact with acids liberates toxic gas.
Warning! Do not use in combination with other products. May release dangerous gases (chlorine).
10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.
10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gas.
10.4. Conditions to avoid
None known.
10.5. Incompatible materials
Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.
10.6. Hazardous decomposition products
The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
▼Acute toxicity

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	406-490 mg/kg ·

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kg ·

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50

Result:	0.54 mg/l (4h) ·

Product/substance	Aluminium,Sulphate
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	6207 mg/kg ·

Harmful if swallowed.

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

Skin sensitisation
Based on available data, the classification criteria are not met.

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
May cause respiratory irritation.

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.

11.2. Information on other hazards

Long term effects
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

▼Endocrine disrupting properties
Not applicable.

Other information
None known.

SECTION 12: Ecological information

12.1. ▼Toxicity

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Fish
Duration:	21 days
Test:	EC50
Result:	2,600 mg/l ·

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	0,3 mg/l ·

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Fish
Duration:	48 hours
Test:	EC50
Result:	0.17 mg/l ·

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Algae
Duration:	72 hours
Test:	ErC50

Result:	>5,000 mg/l ·

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Algae
Duration:	72 hours
Test:	
Result:	2,700 mg/l ·

Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	0,21 mg/l ·

Product/substance	Aluminium,Sulphate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	33.9 mg/L ·

Product/substance	Aluminium,Sulphate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	38.2 mg/L ·

12.2. Persistence and degradability
No data available.

12.3. ▼Bioaccumulative potential
Product/substance	symclosene trichloroisocyanuric acid trichloro-1,3,5-triazinetrion
Test method:	
Potential bioaccumulation:	No data available.
LogPow:	0,9400
BCF:	No data available.
Other information:	

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. ▼Endocrine disrupting properties
Not applicable.

12.7. Other adverse effects
This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

▼Waste treatment methods
Product is covered by the regulations on hazardous waste.
HP 4 - Irritant (skin irritation and eye damage)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6 - Acute toxicity
HP 12 – Release of an acute toxic gas
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

▼EWC code
19 09 99 Wastes not otherwise specified

Specific labelling
Not applicable.

Contaminated packing
Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosen)	Class: 9 Labels: 9 Classification code: M7 	III	Yes	Limited quantities: 5 kg Tunnel restriction code: 3 (-) See below for additional information.
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosen)	Class: 9 Labels: 9 Classification code: M7 	III	Yes	Limited quantities: 5 kg EmS: F-A S-F See below for additional information.
IATA	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosen)	Class: 9 Labels: 9 Classification code: M7 	III	Yes	See below for additional information.

* Packing group
** Environmental hazards

Additional information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

-

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

▼Restrictions for application

No special.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes
Chlorine

Additional information

Tactile warning.

Sources

Control of Major Accident Hazards (COMAH) Regulations 2015.
In accordance with Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products as retained and amended in UK law.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼Full text of H-phrases as mentioned in section 3

EUH031, Contact with acids liberates toxic gas.
H272, May intensify fire; oxidiser.
H290, May be corrosive to metals.
H302, Harmful if swallowed.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H335, May cause respiratory irritation.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

▼The safety data sheet is validated by

CHMA

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en