



SAFETY DATA SHEET

Omnichlor Plus

Compiled in Accordance with EU and GB REACH and CLP Regulations.

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

1.1. Product identifier

Product name Omnichlor Plus

Container size 1 kg

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

Identified uses Disinfectant. Biocides for water treatment.

Uses advised against Not for direct oral consumption in concentrated form.

1.3. Details of the supplier of the safety data sheet

Supplier COVENTRY CHEMICALS LTD
WOODHAMS RD
SISKIN DRIVE
COVENTRY
CV3 4FX
Tel: +44 (0) 2476639739
Fax: +44 (0) 2476639717
Email: sales@coventrychemicals.com

Contact person For content of safety data sheet: sds@coventrychemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

National emergency telephone number In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H335

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word Warning

Omnichlor Plus

Hazard statements	H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P391 Collect spillage. P337+P313 If eye irritation persists: Get medical advice/ attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell. P501 Dispose of contents/ container in accordance with local regulations.
Supplemental label information	EUH031 Contact with acids liberates toxic gas. EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).
Contains	TROCLOSENE SODIUM, ADIPIC ACID, SODIUM CARBONATE
Biocide Labelling	This product contains substances with biocidal properties., Read attached instructions before use.
Detergent labelling	≥ 30% chlorine-based bleaching agents
Supplementary precautionary statements	P102 Keep out of reach of children. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P402 Store in a dry place. P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TROCLOSENE SODIUM	30-60%
CAS number: 2893-78-9	EC number: 220-767-7
M factor (Acute) = 1	M factor (Chronic) = 1
Classification Ox. Sol. 2 - H272 Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) E;R2 O;R8 Xn;R22 Xi;R36/37 R31 N;R50/53

Omnichlor Plus

ADIPIC ACID	10-30%
CAS number: 124-04-9	EC number: 204-673-3
Classification Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R36
SODIUM CARBONATE	1-5%
CAS number: 497-19-8	EC number: 207-838-8
Classification Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R36

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration. Get medical attention immediately.
Ingestion	Never give anything by mouth to an unconscious person. IF SWALLOWED: Do not induce vomiting. Give plenty of water to drink. Give milk instead of water if readily available. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist.
Skin contact	Brush off loose particles from skin. Remove contaminated clothing immediately and wash skin with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Do not rub eye. Get medical attention if irritation persists after washing.

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

Inhalation	The product is not believed to present a hazard due to its physical nature. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Prolonged or repeated exposure may cause the following adverse effects: Coughing, chest tightness, feeling of chest pressure. Dizziness.
Ingestion	Due to the physical nature of this product, exposure by this route is unlikely. The product irritates mucous membranes and may cause abdominal discomfort if swallowed. May cause burns in mucous membranes, throat, oesophagus and stomach. Discoloration of the skin. Drowsiness, dizziness, disorientation, vertigo.
Skin contact	Prolonged contact with moist or wet product may cause burns. The product is considered to be a low hazard under normal conditions of use. Skin irritation should not occur when used as recommended.
Eye contact	May cause severe eye irritation. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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

Notes for the doctor	Due to the potential for the production of Chlorine Gas, check for respiratory disorders.
-----------------------------	---

SECTION 5: Firefighting measures

Omnichlor Plus

5.1. Extinguishing media

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

Unsuitable extinguishing media Note:- The product will dissolve in the presence of directly applied water. If there is acidic material in the proximity, the run off could produce Chlorine Gas

5.2. Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition or combustion products may include the following substances: Hydrogen chloride (HCl). Nitrous gases (NOx). Carbon dioxide (CO₂). Carbon monoxide (CO). Chlorine

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Decontaminate fire fighting equipment and apparel after the incident using a 10% solution of sodium carbonate.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not release into the environment. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). Note:- Comment applies to neat product, not "in-use" solutions.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Clear up spills immediately and dispose of waste safely. Provide adequate ventilation. Avoid generation and spreading of dust. Avoid water contacting spilled material or leaking containers. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely. Avoid using water to clean up spillages or residues, unless the quantity remaining is very small. When handling waste, the safety precautions applying to handling of the product should be considered.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13. For personal protection, see Section 8. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Do not get in eyes, on skin, or on clothing. Avoid breathing dust. Respiratory protection may be required if excessive airborne contamination occurs. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash contaminated clothing before reuse. Wear tight-fitting, chemical splash goggles or face shield.

Advice on general occupational hygiene Provide eyewash station. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash promptly with soap and water if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

Omnichlor Plus

Storage precautions

Store below 25°C. Keep container dry. Keep container tightly closed, in a cool, well ventilated place. Store away from incompatible materials (see Section 10). Contact with acids liberates toxic gas. Keep out of the reach of children. Store locked up. Vapour space in a closed container may contain a slight amount of chlorine gas and compounds from decomposition of the product.

7.3. Specific end use(s)

Specific end use(s) Mix only with water. Do not mix with other household chemical products. Do not mix with acid.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Additional Occupational Exposure Limit Values for possible hazards during processing:

7782-50-5 chlorine WEL (Great Britain) Short-term value: 1.5 mg/m³, 0.5 ppm

IOELV (EU) Short-term value: 1.5 mg/m³, 0.5 ppm

Long term exposure (8-hour TWA): WEL 10mg/m³ inhaled dust.

Long term exposure (8-hour TWA0) WEL 4mg/m³ respirable dust.

TROCLOSENE SODIUM (CAS: 2893-78-9)

DNEL

Workers - Inhalation; Long term systemic effects: 8.11 mg/m³

Workers - Dermal; Long term systemic effects: 2.3 mg/kg

General population - Inhalation; Long term systemic effects: 1.99 mg/m³

General population - Dermal; Long term systemic effects: 1.15 mg/kg/day

General population - Dermal; Long term systemic effects: 1.15 mg/kg/day

PNEC

Fresh water; 0 mg/l

Fresh water, Intermittent release; 0.002 mg/l

marine water; 1.52 mg/l

STP; 0.59 mg/l

Sediment (Freshwater); 0.59 mg/l

Soil; 0.756 mg/l

SODIUM CARBONATE (CAS: 497-19-8)

DNEL

Workers - Inhalation; Long term local effects: 10 mg/m³

General population - Inhalation; Long term local effects: 10 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Use approved respirator if air contamination is above an acceptable level. Note: Comment refers to manufacturing and packaging, not normal use.

Personal protection

This product is not classified for skin irritation or corrosion, but the use of gloves for extended use is recommended.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Refer to EN166. Provide eyewash station.

Omnichlor Plus

Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. In normal use gloves are not required. During manufacture and filling operations, the use of gloves with a breakthrough time of >60minutes is recommended. It is recommended that gloves are made of the following material: Nitrile rubber. Butyl rubber. Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC).
Other skin and body protection	Wear appropriate clothing to prevent skin contamination. Wash contaminated clothing before reuse.
Hygiene measures	Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.
Respiratory protection	Respiratory protection is important in manufacture and packing operations, it is unlikely to be needed in normal use unless a risk assessment suggests that WEL exposure levels quoted in section 8 of this SDS will be exceeded.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Tablet.
Colour	White/off-white.
Odour	Chlorine.
Odour threshold	No information available.
pH	pH (concentrated solution): 5.0-6.5
Melting point	Not applicable.
Initial boiling point and range	Not applicable.
Flash point	Not applicable. Solid.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	The product is not flammable.
Vapour pressure	The product is non-volatile. Not applicable.
Vapour density	Not applicable. The product is non-volatile.
Relative density	~1.5
Bulk density	Not applicable.
Solubility(ies)	Completely soluble in water.
Partition coefficient	Not technically possible for a mixture.
Auto-ignition temperature	Not available.
Decomposition Temperature	225-250°C
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.

Omnichlor Plus

Oxidising properties	Does not meet the criteria for classification as oxidising.
Comments	Information given is applicable to the product as supplied.

9.2. Other information

Other information	Not relevant.
--------------------------	---------------

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The reactivity data for this product will be typical of those for the following class of materials: Acids. Alkalis. Oxidising materials.
-------------------	--

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
------------------	---

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Contact with acids liberates toxic chlorine gas.
---	--

10.4. Conditions to avoid

Conditions to avoid	Keep at temperature not exceeding 25°C. Avoid handling which leads to dust formation. Avoid contact with: Water, moisture.
----------------------------	--

10.5. Incompatible materials

Materials to avoid	Avoid contact with the following materials: Strong acids. Strong alkalis. Reducing agents. Flammable/combustible materials. Ammonia. Organic compounds. Oxidising agents.
---------------------------	---

10.6. Hazardous decomposition products

Hazardous decomposition products	Chlorine. Oxides of carbon. Chlorides. Hydrogen chloride (HCl). Isocyanates Nitrous gases (NOx).
---	--

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is applicable to the major ingredient.
------------------------------	--

Other health effects	Does not contain any substances known to be carcinogenic.
-----------------------------	---

Skin sensitisation

Skin sensitisation	Not sensitising.
---------------------------	------------------

Inhalation

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Note:- Contact with acid will produce Chlorine Gas, this may result in breathing difficulties.

Ingestion

May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

Skin contact

Skin irritation should not occur when used as recommended. Prolonged or repeated exposure may cause the following adverse effects: Dryness and/or cracking.

Eye contact

Causes eye irritation. Dust in the eyes will cause irritation.

Toxicological information on ingredients.

TROCLOSENE SODIUM

Acute toxicity - oral

Omnichlor Plus

Acute toxicity oral (LD₅₀ mg/kg)	1,436.0
Species	Rat
Notes (oral LD₅₀)	REACH dossier information.
ATE oral (mg/kg)	1,436.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	5,000.1
Species	Rat
Notes (dermal LD₅₀)	Not classified. REACH dossier information.
ATE dermal (mg/kg)	5,000.1
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	Corrosive to skin. Conclusive data but not sufficient for classification. REACH dossier information.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Causes serious eye irritation. Corrosivity to eyes is assumed. REACH dossier information.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met. Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information.
Genotoxicity - in vivo	Chromosome aberration: Negative. Based on available data the classification criteria are not met. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	No evidence of carcinogenicity in animal studies. REACH dossier information.
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies. REACH dossier information.

SODIUM CARBONATE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	2,800.0
Species	Rat

Omnichlor Plus

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀) 2,000.0 mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 2.3

Species Rat

SECTION 12: Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. The product does not contain any substances expected to be bioaccumulating.

12.1. Toxicity

Toxicity The product contains a substance which is harmful to aquatic organisms.

Ecological information on ingredients.

TROCLOSENE SODIUM

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Acute toxicity - fish REACH dossier information.
LC₅₀, 96 hours: 0.24 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 0.196 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - fish early life stage NOEC, 28 days: 756 mg/l,

SODIUM CARBONATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 300 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 265 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability Organic components are biodegradable.

Ecological information on ingredients.

TROCLOSENE SODIUM

Omnichlor Plus

Biodegradation	Degradation (%) Water - Degradation 2%: 28 days - Cyanuric acid biodegrades readily in anaerobic soils:
-----------------------	---

12.3. Bioaccumulative potential

Bioaccumulative potential Organic components are expected to Biodegrade.

Partition coefficient Not technically possible for a mixture.

Ecological information on ingredients.

TROCLOSENE SODIUM

Partition coefficient log Pow: -0.056

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects There is evidence that sodium hypochlorite inhibits the aerobic treatment process at a concentration of 0.05 mg/l.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste product or used containers in accordance with local regulations Normal use solutions are expected to be flushed to sewers.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (ADN) 3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM)

14.3. Transport hazard class(es)

Omnichlor Plus

ADR/RID class	9
ADR/RID classification code	M7
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

Omnichlor Plus

National regulations	<p>GB (UK) CLP and REACH Regulations. EH40/2005 Workplace exposure limits. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020 - as amended The Detergents (Amendment) (EU Exit) Regulations 2019 (S.I. 2019/672); Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (S.I. 2019/671); Detergents (Amendment) (EU Exit) Regulations 2020 (S.I. 2020-1617) - as amended UK Biocidal Regulations. The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).</p>
EU legislation	<p>European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (as amended) European Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended) Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006, European Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products (BPR) as amended</p>
Guidance	<p>Workplace Exposure Limits EH40. COSHH Essentials. ECHA Guidance on the Application of the CLP Criteria. ECHA Guidance on the compilation of safety data sheets.</p>

15.2. Chemical safety assessment

Currently we do not have information from our suppliers about this.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. PNEC: Predicted No Effect Concentration. DNEL: Derived No Effect Level.</p>
Revision comments	<p>Additional pack size Note: Finished product SDS take their revision history from the parent bulk liquid SDS. The revision data will show that of the parent liquid. Revised formulation.</p>
Issued by	Violeta Cotoman
Revision date	09/12/2022
Revision	3
Supersedes date	10/08/2021
SDS number	23289
Hazard statements in full	<p>H272 May intensify fire; oxidiser. H302 Harmful if swallowed. 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.</p>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.----- END OF SDS -----