



SAFETY DATA SHEET OXYPER SCS

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

1.1. Product identifier

Product name OXYPER SCS

Product number 46334

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

Identified uses Bleaching Agent, Cleaning agent. Disinfectant. Biocide Oxidising Agent

1.3. Details of the supplier of the safety data sheet

Supplier

Univar
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
sds@univar.com
+44 1274 267306

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 46334

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Ox. Sol. 3 - H272

Health hazards Acute Tox. 4 - H302 Eye Dam. 1 - H318

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) O; R8. Xn; R22. Xi; R41

2.2. Label elements

Pictogram



Signal word

Danger

OXYPER SCS

Hazard statements	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H318 Causes serious eye damage.
Precautionary statements	P220 Keep away from combustible materials. P221 Take any precaution to avoid mixing with combustibles. P301+P310 IF SWALLOWED: 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 national regulations.
Contains	SODIUM PERCARBONATE

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

SODIUM PERCARBONATE			60-100%
CAS number: 15630-89-4	EC number: 239-707-6	REACH registration number: 01-2119457268-30-XXXX	
Classification Ox. Sol. 3 - H272 Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) Xn;R22. Xi;R41. O;R8.		
SODIUM CARBONATE			5-10%
CAS number: 497-19-8	EC number: 207-838-8	REACH registration number: 01-2119485498-19-XXXX	
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	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur 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. Get medical attention immediately. Continue to rinse.

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

Inhalation	May cause respiratory system irritation.
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Ingestion	May cause stomach pain or vomiting.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Risk of serious damage to eyes. Severe irritation, burning and tearing.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Oxygen. Oxidising.
Hazardous combustion products	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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. Avoid contact with skin and eyes. Avoid inhalation of dust. Provide adequate ventilation.
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6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.
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6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid spilling. Eliminate all sources of ignition. Static electricity and formation of sparks must be prevented. Provide adequate ventilation. Avoid generation and spreading of dust. Avoid contact with skin and eyes.
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7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Store in a dry place. Store in a well-ventilated place. Keep away from heat, sparks and open flame. Store at temperatures not exceeding 40°C. Keep container tightly closed. Keep only in the original container.

Storage class Oxidiser storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

SODIUM PERCARBONATE (CAS: 15630-89-4)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Workers - Dermal; Short term local effects: 12.8 mg/cm²
 Workers - Inhalation; Long term local effects: 5 mg/m³
 Consumer - Dermal; Short term local effects: 6.4 mg/cm²

SODIUM CARBONATE (CAS: 497-19-8)

DNEL Industry - Inhalation; Long term local effects: 10 mg/m³
 Consumer - Inhalation; Short term local effects: 10 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). EN 374

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Provide eyewash station and safety shower. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Granules.

Colour White.

Odour Odourless.

OXYPER SCS

Odour threshold	No information available.
pH	pH (diluted solution): 10.4 - 10.6 @ 10 g/l
Melting point	Not relevant. Will decompose at temperatures exceeding 110°C.
Initial boiling point and range	Technically not feasible.
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	The product is not flammable.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	2.01 - 2.16
Bulk density	850 - 1200 kg/m ³
Solubility(ies)	140 g/l water @ 20°C
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	>110°C
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	The product contains a substance classified as oxidising.

9.2. Other information

Other information	No information available.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	314.06 g/mol
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Reacts strongly with water.
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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 Avoid contact with flammable/combustible materials.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Avoid contact with water.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents. Strong reducing agents. Inorganic salts. Water, steam, water mixtures.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,161.8

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

Skin corrosion/irritation

Animal data Slightly irritating. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Risk of serious damage to eyes.

Respiratory sensitisation

Respiratory sensitisation Guinea pig: Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro No specific test data are available.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity - fertility No specific test data are available.

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No specific test data are available.

Aspiration hazard

Aspiration hazard Not available.

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Inhalation	May cause respiratory irritation.
Ingestion	Harmful if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	Risk of serious damage to eyes.

SODIUM PERCARBONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 1,034.0
mg/kg)

Species Rat

ATE oral (mg/kg) 1,034.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,001.0
mg/kg)

Species Rat

ATE dermal (mg/kg) 2,001.0

Skin corrosion/irritation

Animal data No information available.

Serious eye damage/irritation

Serious eye damage/irritation No information available.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

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Inhalation	Irritating to respiratory system.
Ingestion	Harmful if swallowed.
Skin contact	Irritating to skin.
Eye contact	Risk of serious damage to eyes.
Target organs	Central nervous system Gastro-intestinal tract Eyes

SODIUM CARBONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,800.0

Species Rat

Acute toxicity - dermal

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

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 2,300.0

Species Rat

ATE inhalation (dusts/mists mg/l) 2,300.0

Skin corrosion/irritation

Animal data No information available.

Serious eye damage/irritation

Serious eye damage/irritation Irritating.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

OXYPER SCS

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eye irritation.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SODIUM PERCARBONATE

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

SODIUM CARBONATE

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Acute toxicity - fish LC₅₀, 96 hours: 70.7 mg/l, Pimephales promelas (Fat-head Minnow)
NOEC, 96 hours: 7.4 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, : 4.9 mg/l, Daphnia magna
NOEC, 48 hours: 2 mg/l, Daphnia magna

SODIUM PERCARBONATE

Acute toxicity - fish LC₅₀, 96 hours: 70.2 mg/l, Algae, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 4.9 mg/l, Daphnia magna

Chronic toxicity - fish early life stage NOEC, 96 hours: 7.4 mg/l, Pimephales promelas (Fat-head Minnow)

SODIUM CARBONATE

Toxicity Not considered toxic to fish.

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

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Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 265 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability Not applicable. The product contains only inorganic substances which are not biodegradable.

SODIUM PERCARBONATE

Persistence and degradability

There are no data on the degradability of this product.

SODIUM CARBONATE

Persistence and degradability

The product contains mainly inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Not applicable.

Partition coefficient Not applicable.

SODIUM PERCARBONATE

Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

No information available.

SODIUM CARBONATE

Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility The product is soluble in water.

SODIUM PERCARBONATE

Mobility

The product is soluble in water.

SODIUM CARBONATE

Mobility

The product is soluble in water.

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.

SODIUM PERCARBONATE

Results of PBT and vPvB assessment

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

SODIUM CARBONATE

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Results of PBT and vPvB assessment Not applicable.

12.6. Other adverse effects

Other adverse effects No information available.

SODIUM PERCARBONATE

Other adverse effects Not determined.

SODIUM CARBONATE

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

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

14.1. UN number

UN No. (ADR/RID) 3378

UN No. (IMDG) 3378

UN No. (ICAO) 3378

UN No. (ADN) 3378

14.2. UN proper shipping name

Proper shipping name (ADR/RID) SODIUM CARBONATE PEROXYHYDRATE

Proper shipping name (IMDG) SODIUM CARBONATE PEROXYHYDRATE

Proper shipping name (ICAO) SODIUM CARBONATE PEROXYHYDRATE

Proper shipping name (ADN) SODIUM CARBONATE PEROXYHYDRATE

14.3. Transport hazard class(es)

ADR/RID class 5.1

ADR/RID classification code O2

ADR/RID label 5.1

IMDG class 5.1

ICAO class/division 5.1

ADN class 5.1

OXYPER SCS

Transport labels



14.4. Packing group

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

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-A, S-Q
ADR transport category	3
Emergency Action Code	1Y
Hazard Identification Number (ADR/RID)	50
Tunnel restriction code	(E)

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 determined.

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. This product may impact SEVESO storage regulations.
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15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt.
DSL

OXYPER SCS

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - MITI

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Other information

OXYPER SCS

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

10/03/2017

Revision

02

Supersedes date

27/08/2015

SDS number

46334

OXYPER SCS

Version number	1.000
SDS status	Approved.
Signature	Lisa Bland
Risk phrases in full	R8 Contact with combustible material may cause fire. R22 Harmful if swallowed. R36 Irritating to eyes. R41 Risk of serious damage to eyes.
Hazard statements in full	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation.