

SAFETY DATA SHEET

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

1.1 Product identifier

- Datasheet Number: SP632 Version 2.0.0
- Product Name: Oxy Shock
- Contains pentapotassium bis(peroxymonosulphate) bis(sulphate)

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

- Use of the substance/mixture: Pool / spa treatment
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Total Pool Chemicals Ltd
- Address of Supplier: Unit 1-5 , Pool Bank Business Park
High Street, Tarvin
Chester
UK
CH3 8JH
- Telephone: +44 (0)1829 740290
- Email: sales@totalpool.co.uk

1.4 Emergency telephone number

- +44 (0)1829 740290 (Office Hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements



- Signal Word: Danger
- Hazard statements
 - H302 - Harmful if swallowed.
 - H314 - Causes severe skin burns and eye damage.
 - H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements
 - P273 - Avoid release to the environment.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 - P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 - P501 - Dispose of contents/container to an authorised waste collection point

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SECTION 2: Hazards identification (....)

- Supplemental Hazard information (EU)
EUH208 - Contains dipotassium peroxodisulphate. May produce an allergic reaction.

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1 Substances

- Not applicable

3.2 Mixtures

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	SCL/ M-Factor/ ATE	REACH Registration Number	WEL / OEL
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	99 - 100%	70693-62-8	274-778-7	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	-	01-2119485567-22-XXXX	No
Dipotassium peroxodisulphate; Potassium persulphate	< 1%	7727-21-1	231-781-8	Ox. Sol. 3, H272; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Resp Sens. 1, H334; STOT SE 3, H335	-	01-2119495676-19-XXXX	No

SECTION 4: First aid measures

Rescuers should put on approved personal protective equipment (PPE) before administering first aid

Rescuers should take suitable precautions to avoid becoming casualties themselves

4.1 Description of first aid measures

- Contact with eyes
If substance has got into eyes, immediately wash out with plenty of water for several minutes
Irrigate eyes thoroughly whilst lifting eyelids
Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention.
- Contact with skin
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water
Contaminated clothing should be laundered before reuse
Get immediate medical advice/attention.
- Ingestion
Rinse mouth with water (do not swallow)
Give plenty of water to drink
Do NOT induce vomiting.
Get immediate medical advice/attention.
- Inhalation
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

SECTION 4: First aid measures (....)

IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
 - Causes burning sensation
 - May cause severe damage with formation of corneal ulcers and permanent impairment of vision.
- Contact with skin
 - May cause severe burns with permanent skin damage which are slow to heal.
 - May cause allergic reaction in susceptible people
- Ingestion
 - Harmful if swallowed.
 - May cause burns to mouth and throat
 - May cause nausea/vomiting
 - May cause diarrhoea
- Inhalation
 - May cause allergic reaction in susceptible people
 - May cause respiratory irritation
 - May cause coughing and tightness of chest

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: water spray; alcohol resistant foam; carbon dioxide; dry powder
- Unsuitable extinguishing media: high volume water jet

5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products include oxygen
- Decomposition products may include sulphur oxides

5.3 Advice for firefighters

- Evacuate the area and keep personnel upwind
- Keep container(s) exposed to fire cool, by spraying with water
- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Rescuers should take suitable precautions to avoid becoming casualties themselves
- Only trained and authorised personnel should carry out emergency response
- Personal precautions for non-emergency personnel: Ensure adequate ventilation; Do not breathe dust; Wear protective clothing as per section 8; Wash thoroughly after handling.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear self-contained breathing apparatus (SCBA); Wear chemical protection suit

6.2 Environmental precautions

- Avoid release to the environment.

SECTION 6: Accidental release measures (....)

- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Evacuate the area and keep personnel upwind
- Stop leak if safe to do so.
- Avoid formation of dust
- Small spills
 - Wipe up spillage with damp absorbent cloth or towel
- Large spills
 - Remove by mechanical means
 - Do not absorb spillage in sawdust or other combustible material
 - Place in appropriate container
 - Seal containers and label them
 - Remove contaminated material to safe location for subsequent disposal
 - Seek expert advice for removal and disposal of all contaminated materials and wastes
 - Flush spill area with copious amounts of water

6.4 Reference to other sections

- See section(s): 7, 8 & 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Use only in well ventilated areas
- Provide sufficient air exchange and/or exhaust in work rooms.
- Keep away from heat and sources of ignition
- Avoid raising dust
- Do not breathe dust
- Avoid contact with skin and eyes
- Wear protective clothing as per section 8
- Contaminated clothing should be laundered before reuse
- Contaminated work clothing should not be allowed out of the workplace.
- Use good personal hygiene practices
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.
- Ensure eyewash stations and safety showers are nearby

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Keep container tightly closed.
- Protect from moisture.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep away from food, drink and animal feedingstuffs
- Keep away from combustible material
- Incompatible with strong acids and bases, heavy metals and heavy metal salts, reducing agents
- Avoid contact with impurities (e.g. rust, dust, ash), risk of decomposition

7.3 Specific end use(s)

- Pool / spa treatment

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

SECTION 8: Exposure controls/personal protection (....)

- If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 4 mg/m³ (8hr TWA) total respirable dust
- Pentapotassium bis(peroxymonosulphate) bis(sulphate)
 - DNEL (inhalational) 280 µg/m³ Industry, Long Term, Systemic Effects
 - DNEL (inhalational) 50 mg/m³ Industry, Acute/Short Term, Systemic Effects
 - DNEL (inhalational) 280 µg/m³ Industry, Long Term, Local Effects
 - DNEL (inhalational) 50 mg/m³ Industry, Acute/Short Term, Local Effects
 - DNEL (dermal) 20 mg/kg (bw/day) Industry, Long Term, Systemic Effects
 - DNEL (dermal) 80 mg/kg (bw/day) Industry, Acute/Short Term, Systemic Effects
 - DNEL (dermal) 449 µg/cm² Industry, Acute/Short Term, Local Effects
 - DNEL (inhalational) 140 µg/m³ Consumer, Long Term, Systemic Effects
 - DNEL (inhalational) 25 mg/m³ Consumer, Acute/Short Term, Systemic Effects
 - DNEL (inhalational) 140 µg/m³ Consumer, Long Term, Local Effects
 - DNEL (inhalational) 25 mg/m³ Consumer, Acute/Short Term, Local Effects
 - DNEL (dermal) 10 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
 - DNEL (dermal) 40 mg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
 - DNEL (dermal) 220 µg/cm² Consumer, Acute/Short Term, Local Effects
 - DNEL (oral) 10 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
 - DNEL (oral) 10 mg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
 - PNEC aqua (freshwater) 22 µg/l
 - PNEC aqua (intermittent releases, freshwater) 10.9 µg/l
 - PNEC aqua (marine water) 2.22 µg/l
 - PNEC (STP) 108 mg/l
 - PNEC sediment (freshwater) 78.2 µg/kg
 - PNEC sediment (marine water) 7.96 µg/kg
 - PNEC terrestrial (soil) 1 mg/kg
 - PNEC secondary poisoning (food) 44.44 mg/kg
- Dipotassium peroxodisulphate
 - DNEL (inhalational) 824 µg/m³ Industry, Long Term, Local Effects
 - DNEL (dermal) 10.3 mg/kg (bw/day) Industry, Long Term, Systemic Effects
 - DNEL (inhalational) 421 µg/m³ Consumer, Long Term, Local Effects
 - DNEL (dermal) 5.2 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
 - DNEL (oral) 520 µg/kg (bw/day) Consumer, Long Term, Systemic Effects
 - DNEL (oral) 1.55 mg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
 - PNEC aqua (freshwater) 518 µg/l
 - PNEC aqua (intermittent releases, freshwater) 763 µg/l
 - PNEC aqua (marine water) 5.18 µg/l
 - PNEC (STP) 3.6 mg/l
 - PNEC sediment (freshwater) 2.03 mg/kg
 - PNEC sediment (marine water) 203 µg/kg
 - PNEC terrestrial (soil) 100 µg/kg

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential
- Engineering controls
 - Ensure adequate ventilation

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SECTION 8: Exposure controls/personal protection (....)

Provide appropriate exhaust ventilation at places where airborne dust is generated

- Respiratory protection
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
 - Use type FFP3 (EN 143) dust masks
- Eye/face protection
 - Wear goggles giving complete eye protection approved to standard EN 166.
 - If risk of splashing, wear face-shield approved to standard EN 166 1B39N
- Skin protection
 - Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
 - The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
 - Glove material: Butyl rubber
 - Thickness: 0.5 mm
 - Breakthrough time: ≥ 480 minutes
 - Reference: Supplier
 - Wear suitable protective clothing
 - Contaminated work clothing should not be allowed out of the workplace.
 - Contaminated clothing should be laundered before reuse
- Hygiene measures
 - Do not eat, drink or smoke when using this product.
 - Use good personal hygiene practices
 - Wash thoroughly after handling.
 - Ensure eyewash stations and safety showers are nearby
- Environmental exposure controls
 - Do not empty into drains
 - Do not allow to penetrate the ground/soil.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Solid, white powder
- Odour: Odourless
- Odour threshold: Not applicable
- pH: 2.3 (concentration 10 g/l)
- Melting point/freezing point: No information available
- Initial boiling point and boiling range: No information available
- Flashpoint: Not applicable
- Evaporation Rate: No information available
- Flammability (solid,gas): Not flammable
- Upper/lower flammability or explosive limits: Not applicable
- Vapour Pressure: < 0.001 hPa @ 25 °C
- Vapour Density: No information available
- Relative Density: 2.35 @ 20 °C
- Solubility(ies): Solubility in water: ca. 300 g/l @ 20 °C
- Partition Coefficient (n-Octanol/Water): Log Kow: -3.9 @ 25 °C

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SECTION 9: Physical and chemical properties (....)

- Autoignition Temperature: No information available
- Decomposition temperature: Decomposes above 80 °C
- Viscosity: Not applicable
- Explosive Properties: Not applicable
- Oxidising properties: Not oxidising

9.2 Other information

- Self-Accelerating Decomposition Temperature (SADT): > 80 °C (Method UN-Test H.4)
-

SECTION 10: Stability and reactivity

10.1 Reactivity

- Stable under normal conditions

10.2 Chemical stability

- Stable under normal conditions

10.3 Possibility of hazardous reactions

- Even small amounts of moisture or impurities can noticeably reduce the self-accelerating decomposition temperature (SADT).

10.4 Conditions to avoid

- Avoid formation of dust
- Avoid contact with moisture
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

- Incompatible with strong acids and bases, heavy metals and heavy metal salts, reducing agents
- Avoid contact with impurities (e.g. rust, dust, ash), risk of decomposition

10.6 Hazardous decomposition products

- Decomposition products include oxygen
 - Decomposition products may include sulphur oxides
-

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute Toxicity
Harmful if swallowed.
Classification based on calculation and concentration thresholds

Substances

Chemical Name	LD50 (oral, rat)	LC50 (inhalation, rat)	LD50 (dermal, rabbit)
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	500 mg/kg	1.85 - 5 mg/l (4 h)	2 000 mg/kg (rat)
Dipotassium peroxodisulphate	920 - 1 200 mg/kg	2.95 mg/l (4 h)	2 000 mg/kg (rat)

- Skin corrosion/irritation
Causes severe skin burns and eye damage.
Classification based on calculation and concentration thresholds
 - Serious eye damage/irritation
Causes serious eye damage.
Classification based on calculation and concentration thresholds
-

SECTION 11: Toxicological information (....)

- Respiratory or skin sensitisation
This mixture is not classified as sensitising but contains at least one substance classified as sensitising and present in a concentration that may trigger an allergic reaction
- Germ cell mutagenicity
No evidence of mutagenic effects
- Carcinogenicity
No evidence of carcinogenic effects
- Reproductive toxicity
No evidence of reproductive effects

Substances

Chemical Name	NOAEL (oral, rabbit)
Dipotassium peroxodisulphate	30 mg/kg bw/day (Effect on developmental toxicity)

- Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met
- Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Pentapotassium bis(peroxy monosulphate) bis(sulphate)	200 mg/kg bw/day	No data available	No data available
Dipotassium peroxodisulphate	131.5 mg/kg bw/day	10.3 mg/m ³	No data available

- Aspiration hazard
Based on available data, the classification criteria are not met
- Contact with eyes
Causes burning sensation
May cause severe damage with formation of corneal ulcers and permanent impairment of vision.
- Contact with skin
May cause severe burns with permanent skin damage which are slow to heal.
May cause allergic reaction in susceptible people
- Ingestion
Harmful if swallowed.
May cause burns to mouth and throat
May cause nausea/vomiting
May cause diarrhoea
- Inhalation
May cause allergic reaction in susceptible people
May cause respiratory irritation
May cause coughing and tightness of chest

SECTION 12: Ecological information

12.1 Toxicity

- Harmful to aquatic life with long lasting effects.
- Classification based on calculation and concentration thresholds

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SECTION 12: Ecological information (....)

Substances

Chemical Name	LC50 (fish)	EC50 (aquatic invertebrates)	EC50 (aquatic algae)
Pentapotassium bis(peroxymonosulphate) bis(sulphate)	1.09 - 53 mg/l (4 days)	3.5 mg/l (48 h)	1 mg/l
Dipotassium peroxodisulphate	76.3 - 107.6 mg/l (4 days)	120 mg/l (48 h)	136 - 320 mg/l (72 h)

12.2 Persistence and degradability

- Not applicable; inorganic

12.3 Bioaccumulative potential

- No data available

12.4 Mobility in soil

- Large volumes may penetrate soil and contaminate groundwater

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Other adverse effects

- No information available
-

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Do not reuse empty containers without commercial cleaning or reconditioning

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
 - Hazardous Property Code(s): HP 6 Acute Toxicity; HP 8 Corrosive; HP 14 Ecotoxic
-

SECTION 14: Transport information


14.1 UN number

- UN No.: 3260

14.2 UN proper shipping name

- Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxymonosulfate)

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

- Not applicable

14.6 Special precautions for user

SECTION 14: Transport information (....)

- No information available

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

- Not applicable

14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxymonosulfate)
- ADR UN No.: 3260
- ADR Hazard Class: 8
- ADR Packing Group: III
- Tunnel Code: E

14.9 Sea (IMDG)

- Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxymonosulfate)
- IMDG UN No.: 3260
- IMDG Hazard Class: 8
- IMDG Pack Group.: II

14.10 Air (ICAO/IATA)

- Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Potassium peroxymonosulfate)
- ICAO UN No.: 3260
- ICAO Hazard Class: 8
- ICAO Packing Group: II

SECTION 15: Regulatory information

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe

15.2 Chemical safety assessment

- No information available

SECTION 16: Other information

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 2.0.0. Revised October 2020.

Changes made: Revisions to all sections to conform to Regulation (EU) 2015/830

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

- Acute Tox. 4, H302: Classification based on calculation and concentration thresholds
- Skin Corr. 1B, H314: Classification based on calculation and concentration thresholds
- Eye Dam. 1, H318: Classification based on calculation and concentration thresholds
- Aquatic Chronic 3, H412: Classification based on calculation and concentration thresholds

SECTION 16: Other information (....)

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H272: May intensify fire; oxidizer
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage
- H319: Causes serious eye irritation.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335: May cause respiratory irritation
- H412: Harmful to aquatic life with long lasting effects

Acronyms

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC50: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- SCL: Specific Concentration Limit
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---
