

SAFETY DATA SHEET



Product Name: ACCO Oxy-Shock

Release Date: 5/27/2020

Product Number: 102-74025, 102-74050

Section 1. Identification

Product Identifier:	ACCO Oxy-Shock
Other means of identification:	Sodium Peroxydisulfate; Disodium Peroxydisulfate; Peroxydisulfuric acid, disodium salt; Peroxydisulfuric acid, sodium salt.
CAS Number:	7775-27-1
Recommended Use:	Water treatment
Recommended Restrictions:	No uses to be advised against were identified.
Supplier/Distributor Information:	ACCO Unlimited Corporation 5105 NW Johnston Dr. Johnston, IA 50131 (800) 548-2226

EMERGENCY PHONE NUMBER: 800-424-9300 CHEMTREC

Section 2. Hazard(s) Identification

OSHA/HCS status.....This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical hazards.....Not listed.

Health hazardsSkin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2B
Respiratory Sensitisation - Category 1
Specific Target Organ Toxicity, Single Exposure - Category 3
Skin sensitization - Category 1
Oxidizing Solids - Category 3
Acute Toxicity, Oral - Category 4

GHS label elements:
Hazard pictograms



Signal word.....Danger

Hazard statements.....May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Harmful if swallowed.
May intensify fire; oxidizer.

Precautionary statements:

Prevention.....Avoid breathing dust/fumes/gas/mist/vapors/spray. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing. Wash face, hands and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Take any precaution to avoid mixing with combustibles .

Response.....IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.
 IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
 In case of fire: Use water for extinction

Storage.....Store in a well-ventilated place. Keep cool.

Disposal.....Dispose of contents/container in accordance with local/regional/national regulations.

Other Hazards.....No hazards not otherwise classified were identified.

Other Information.....Risk of decomposition by heat or by contact with incompatible materials.

Unknown acute toxicity.....0% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3. Composition/information on ingredients

Formula Na₂O₈S₂

Chemical name	CAS-No	Weight %
Sodium Persulfate	7775-27-1	> 99
Sodium sulfate	7757-82-6	< 1

Section 4. First aid measures

General Advice: Remove from exposure, lie down. Show this material safety data sheet to the doctor in attendance.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids intermittently. Consult a physician. In case of contact, immediately flush eyes with plenty of water. If symptoms persist, call a physician.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

Inhalation: Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth. Drink 1 or 2 glasses of water.

Most important symptoms and effects, both acute and delayed: Itching; Redness; Coughing and/ or wheezing.

Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

Section 5. Fire-fighting measures

Suitable Extinguishing Media: Water. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable extinguishing Media: Do not use carbon dioxide or other gas filled fire extinguishers; they will have little effect on decomposing persulfate.

Specific Hazards Arising from the Chemical: Decomposes under fire conditions to release oxygen that intensifies the fire.

Explosion data

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental release measures

Personal Precautions: Keep off any unprotected persons. Avoid contact with the skin and the eyes. Avoid breathing dust. Wear personal protective equipment.

Other: Never add other substances or combustible waste to product residues.

Environmental Precautions: Knock down dust with water spray. Avoid penetration into waterways, sewers, soil or groundwater. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment: Vacuum, shovel or pump waste into a drum and label contents for disposal. Avoid dust formation. Store in closed container.

Methods for cleaning up: Clean up spill area and treat as special waste. Dispose of waste as indicated in Section 13.

Section 7. Handling and storage

Handling: Wear personal protective equipment. Avoid breathing dust. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Avoid contact with skin and eyes. Remove and wash contaminated clothing before re-use.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Do not store near combustible materials. Avoid contamination of opened product. Keep away from food, drink and animal feedingstuffs. Avoid formation and deposition of dust.

Incompatible products: Acids, Bases, Halides, Oxidizing agents, Strong reducing agents, Combustible materials.

Section 8. Exposure controls/personal protection

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Sodium Persulfate 7775-27-1	TWA: 0.1 mg/m ³	-	-	-
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Sodium Persulfate 7775-27-1	TWA: 0.1 mg/m ³	-	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³

Appropriate engineering controls

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection: Eye protection recommended. Chemical goggles consistent with EN 166 or equivalent.

Skin and Body Protection: Wear long-sleeved shirt, long pants, socks, and shoes.

Hand Protection: Protective gloves: Neoprene gloves, Polyvinylchloride, Natural Rubber.
 Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn: particulate filtering facepiece respirators.
 Hygiene measures: Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Wash hands before breaks and after shifts. Keep work clothes separate, remove contaminated clothing - launder after open handling of product.
 General information: Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Crystalline solid
Physical State	Solid
Color	White
Odor	odorless
Odor threshold	Not applicable
pH	6.0 (1% solution)
Melting point/freezing point	180° C (Decomposes)
Boiling Point/Range	Decomposes on heating
Flash point	Not flammable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not applicable
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	6.07E-30 mm Hg at 25° C
Vapor density	No information available
Density	2.59 g/cm ³ (crystal density)
Specific gravity	No information available
Water solubility	42 % @ 25° C
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No evidence of combustion up to 600° C
Decomposition temperature	> 100° C (assume)
Viscosity, kinematic	No information available (Solid)
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Oxidizing properties	oxidizer
Molecular weight	238.1
VOE content (%)	Not applicable
Bulk density	1.12 g/cm ³ (loose)

Section 10. Stability and reactivity

Reactivity: Strong oxidizer. Oxidizer. Contact with other material may cause fire.
 Chemical Stability: Decomposition can occur on exposure to heat or moisture.
 Possibility of Hazardous Reactions: Use of persulfates in chemical reactions requires appropriate precautions and design considerations for pressure and thermal relief. Decomposing persulfates will evolve large volumes of gas and/or vapor, can accelerate exponentially with heat generation, and create significant and hazardous pressures if contained and not properly controlled or mitigated. Use with alcohols in the presence of water has been demonstrated to generate conditions that require rigorous adherence to process safety methods and standards to prevent escalation to an uncontrolled reaction.
 Hazardous polymerization: Hazardous polymerization does not occur.
 Conditions to avoid: Heat. (decomposes at 275°C); Moisture.
 Incompatible materials: Bases, Halides, Oxidizing agents, Strong reducing agents, Combustible materials. Acids.
 Hazardous Decomposition Products: Oxygen which supports combustion; Sulfur oxides.

Section 11. Toxicological information

Unknown acute toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

LD50 Oral: 895 920 mg/kg (rat) (Sodium Persulfate)

LD50 Dermal: > 10,000 mg/kg (rabbit) (Sodium Persulfate)

LC50 Inhalation: > 5.1 mg/L (rat) (4-hr) (Sodium Persulfate)

Serious eye damage/eye irritation: Irritating to eyes.

Skin corrosion/irritation: Minimally irritating.

Sensitization: Sensitizing to skin and respiratory system.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation	NOAEL Oral Value
Sodium Persulfate /7775-27-1)	895 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 21.6 mg/L (Rat) 4 h	
Sodium sulfate /7757-82-6)	> 10000 mg/kg (Rat)			

Information on toxicological effects

Symptoms: Symptoms of allergic reaction may include rash, itching, swelling and trouble breathing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: Irritating to eyes, respiratory system and skin.

Corrosivity: None.

Carcinogenicity: Did not show carcinogenic effects in animal experiments.

Mutagenicity: In vivo tests did not show mutagenic effects.

Reproductive toxicity: This product is not recognized as reprotox by Research Agencies.

STOT - single exposure: May cause respiratory irritation.

STOT - repeated exposure: Not classified.

Subchronic toxicity: Oral (NOAEL) = 131.5 mg/kg bw (Sodium Persulfate) Inhalation (NOAEC) = 10.3 mg/m³ (Ammonium Persulfate) Dermal: No data available

Target organ effects: Eyes, Skin, Respiratory System.

Aspiration hazard: Not applicable.

Section 12. Ecological information

Ecotoxicity

Ecotoxicity effects

Sodium Persulfate /7775-27-1'				
Active Inredient(s)	Duration	Soecies	Value	Units
Sodium Persulfate	96 h LC50	Rainbow trout	163	mQ/L
Sodium Persulfate	48 h LC50	Daohnia maQna	133	mQ/L
Sodium Persulfate	96 h LC50	Grass shrimo	519	mail
Sodium Persulfate	72 h EC50	Algae Selenastrum caoricornutum	116	mg/L

Persistence and degradability: Biodegradability does not pertain to inorganic substances.

Bioaccumulation: Does not bioaccumulate.

Mobility: Dissociates into ions.

Other Adverse Effects: None known.

Section 13. Disposal considerations

Waste disposal methods: This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

US EPA Waste Number: D001.

Contaminated Packaging: Dispose of in accordance with local regulations.

Section 14. Transport information

DOT

UN/ID no	UN 1505
Proper Shipping Name	SODIUM PERSULFATE
Hazard class	5.1
Packing Group	III

TDG

UN/ID no	UN 1505
Proper Shipping Name	SODIUM PERSULFATE
Hazard class	5.1
Packing Group	III

MEX

UN/ID no	UN 1505
Proper Shipping Name	SODIUM PERSULFATE
Hazard class	5.1
Packing Group	III

ICAO/IATA

UN/ID no	1505
Proper Shipping Name	SODIUM PERSULFATE
Hazard class	5.1
Packing Group	III

IMDG/IMO

UN/ID no	1505
Proper Shipping Name	SODIUM PERSULFATE
Hazard class	5.1
Packing Group	III

ADR/RID

UN/ID no	UN 1505
Proper Shipping Name	SODIUM PERSULFATE
Hazard class	5.1
Packing Group	III

ADN

Proper Shipping Name	SODIUM PERSULFATE
Hazard class	5.1
Packing Group	III

Section 15. Regulatory information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

This product has the following hazards that are reportable under The Emergency Planning and Community Right-to-Know rule (EPCRA Tier II):

- Oxidizer
- Acute toxicity
- Skin corrosion/irritation
- Serious eye damage/eye irritation
- Respiratory/skinsensitization
- Specific Target Organ Toxicity (STOT) - Single Exposure

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA/EPCRA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

U.S. State Right-to-Know Regulations

This product contains the following substances regulated under state Right-to-Know laws:

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium Persulfate		X			
Sodium sulfate	X		X		

California Proposition 65

This product does not contain any Proposition 65 chemicals

Section 16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	J



* = Chronic Health Hazard. OX = Oxidizer Protection. J = (Safety goggles, gloves, apron, combination dust and vapor respirator)

Disclaimer

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