

# Material Safety Data Sheet

## Sodium Persulfate, 98+%

ACC# 89191

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Sodium Persulfate, 98+%

**Catalog Numbers:** AC202020000, AC202020010, AC202020250, AC202025000

**Synonyms:** Sodium Peroxydisulfate.

**Company Identification:**

Acros Organics N.V.

One Reagent Lane

Fair Lawn, NJ 07410

**For information in North America, call:** 800-ACROS-01

**For emergencies in the US, call CHEMTREC:** 800-424-9300

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7775-27-1	Sodium persulfate	98	231-892-1

**Hazard Symbols:** XN O

**Risk Phrases:** 22 42/43 8

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Appearance: white powder. Hygroscopic. **Danger!** Strong oxidizer. Contact with other material may cause a fire. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause cardiac disturbances. May cause central nervous system effects. May cause kidney damage. Harmful if swallowed. May cause sensitization by inhalation and by skin contact.

**Target Organs:** Kidneys, central nervous system, cardiovascular system.

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause kidney damage. May cause cardiac disturbances. May cause central nervous system effects.

**Inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. May cause kidney damage. May cause cardiac abnormalities. Exposure may produce metabolic acidosis. Sodium Persulfate may cause an asthma-like allergy. Future exposure can cause asthma attacks with shortness of breath, wheezing, cough, and /or chest tightness.

**Chronic:** Repeated or prolonged exposure may cause allergic reactions in sensitive individuals. May cause kidney damage.

### Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid immediately. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Notes to Physician:** Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with combustible materials may cause a fire. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Use water with caution and in flooding amounts. Runoff from fire control or dilution water may cause pollution.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Use water only! Contact professional fire-fighters immediately.

**Flash Point:** 180 deg C ( 356.00 deg F)

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:**Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 1; Instability: 1; Special Hazard: OX

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Cover with sand, dry lime or soda ash and place in a closed container for disposal. Remove all sources of ignition.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Do not allow contact with water. Use only in a chemical fume hood.

**Storage:** Keep away from heat, sparks, and flame. Do not store near combustible materials. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store near alkaline substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium persulfate	none listed	none listed	none listed

**OSHA Vacated PELs:** Sodium persulfate: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

## Section 9 - Physical and Chemical Properties

**Physical State:** Powder

**Appearance:** white

**Odor:** None reported.

**pH:** Not available.

**Vapor Pressure:** Not available.

**Vapor Density:** 8.0

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 100 deg C

**Decomposition Temperature:** 180 deg C

**Solubility:** 550 g/l (20 c)

**Specific Gravity/Density:** 2.4

**Molecular Formula:** Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>

**Molecular Weight:** 238.09

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, dust generation, excess heat, combustible materials, organic materials.

**Incompatibilities with Other Materials:** Strong reducing agents, organic materials, combustible materials.

**Hazardous Decomposition Products:** Oxides of sulfur, irritating and toxic fumes and gases, sodium oxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS# 7775-27-1:** SE0525000

**LD50/LC50:**

Not available.

**Carcinogenicity:**

CAS# 7775-27-1: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information found.

**Teratogenicity:** No information found.

**Reproductive Effects:** No information found.  
**Neurotoxicity:** No information found.  
**Mutagenicity:** No information found.  
**Other Studies:** The toxicological properties have not been fully investigated.

## Section 12 - Ecological Information

**Ecotoxicity:** Fish: Bluegill/Sunfish: 771mg/L; 96-hour; (FMC Study I92-1250)  
Daphnia: Daphnia: 133mg/L; 48-hour; (FMC Study I92-1252)

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.  
**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
<b>Shipping Name:</b>	SODIUM PERSULFATE				No information available.
<b>Hazard Class:</b>	5.1				
<b>UN Number:</b>	UN1505				
<b>Packing Group:</b>	III				

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 7775-27-1 is listed on the TSCA inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

#### SARA

#### CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### Section 313

No chemicals are reportable under Section 313.

#### Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

#### Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 7775-27-1 can be found on the following state right to know lists: New Jersey.

California No Significant Risk Level: None of the chemicals in this product are listed.

### European/International Regulations

#### European Labeling in Accordance with EC Directives

##### Hazard Symbols:

XN O

##### Risk Phrases:

R 22 Harmful if swallowed.

R 42/43 May cause sensitization by inhalation and skin contact.

R 8 Contact with combustible material may cause fire.

##### Safety Phrases:

S 17 Keep away from combustible material.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 8 Keep container dry.

**WGK (Water Danger/Protection)**

CAS# 7775-27-1: 1

**Canada - DSL/NDSL**

CAS# 7775-27-1 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of C, D2B.

**Canadian Ingredient Disclosure List**

CAS# 7775-27-1 is not listed on the Canadian Ingredient Disclosure List.

**Exposure Limits**

CAS# 7775-27-1: OEL-DENMARK:TWA 2 mg/m<sup>3</sup> OEL-UNITED KINGDOM:TWA 1 mg/m<sup>3</sup>

Section 16 - Additional Information

**MSDS Creation Date:** 5/27/1998

**Revision #3 Date:** 1/08/2003

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*