

## Material Safety Data Sheet

# SODIUM PERCHLORATE SOLUTION

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product. The contents and format of this MSDS are in accordance with EC Commission Directive 91/155EEC.

1. **Identification**  
 Chemical Description                      Sodium Perchlorate                      CAS No. 7601-89-0
  
2. **Composition**  
 Aqueous solution of Sodium Perchlorate 150g/100ml
  
3. **Hazards Identification**  
 Health Hazard                                      Harmful if swallowed. Explosive when mixed with combustible material
  
4. **First Aid Measures**
  - Eye Contact
    - Irrigate thoroughly with water for at least 10 mins. If discomfort persists obtain medical attention.
  - Inhalation
    - Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
  - Skin Contact
    - Wash off skin thoroughly with water.
  - Ingestion
    - Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.
  
5. **Fire Fighting Measures**  
 Extinguishing Media  
 This material is not combustible. Use extinguishing media appropriate for surrounding fire. This material is a strong oxidiser and its heat of reaction with reducing agents or combustibles may cause ignition.
  
6. **Accidental Release Measures**  
 Precautions  
 Wear appropriate protective clothing  
 Wear necessary protective equipment. Ventilate Contain and recover liquid if possible. Ventilate area. Dilute with water. Absorb in vermiculite, dry sand or earth and place in containers and arrange removal by disposal company. Keep combustibles away from spilled material.
  
7. **Handling and Storage**  
 Special Requirements                      Store in a cool dry place, out of direct sunlight. Keep away from Combustible material.
  
8. **Exposure controls / Personal Protection (as appropriate to quantities handled)**

Protective Equipment	Goggles or face-shield. Rubber or plastic gloves. Plastic apron, sleeves and boots if handling large quantities			
Respiratory Protection	Not applicable			
Ventilation	Not applicable			
  
9. **Physical and Chemical Properties**

Appearance/Form	Colourless Liquid			
Melting Point	n/a			
Flash Point (degC)	n/a			
Boiling Point	n/a			
Auto-ignition Temp(degC)	n/a			
Solubility in water	Miscible in all proportion			
  
10. **Stability and Reactivity**

Stability	Normally stable				
Other Known Hazards	May be explosive when mixed with combustible materials				
Avoid Contact With - Water	(no)	Acids (yes)	Bases (no)	Oxidisers (no)	Combustibles (yes)
  
11. **Toxicological information**

Toxicity	Harmful if swallowed, Gastrointestinal symptoms. Irritating to respiratory tract. May irritate eyes and skin			
Carcinogenicity	No evidence of carcinogenic properties			
Mutagenicity	No evidence of mutagenic effects			
  
12. **Ecological Information**  
 Dangerous for the environment if discharged into water courses
  
13. **Disposal Considerations**  
 Dispose of in accordance with local authority requirements or pass to chemical disposal company
  
14. **Transportation Information**

UN No	3211	IMDG	3211
IATA	3211	Packing group	11
IMO	3211	Packing group	11
ADR/RID	3211		
  
15. **Regulatory Information**

Symbol	OXIDISING HARMFUL		
Risk Phrases	R-22 R-9		
Safety Phrases	S-13 S-17 S-27		

**16. Other Information**

All information, recommendations and suggestions herein concerning the above product are based upon data believed to be reliable, however, it is the users responsibility to determine the safety, toxicity, and suitability for his/her own use of the product described herein. The information herein should not be construed as being absolutely complete since additional information may be necessary or desirable when special or exceptional circumstances exist or because of applicable laws or regulations.

**Disclaimer**

The preceding is given in good faith as required under the health and safety at work act 1974, but no warranty is implied or given. The information provided is designed to enable the user to use the product safely. If the information is insufficient to ensure safety in any particular application, contact "the supplier" for further advice before proceeding.

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