

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

#### 1.1. Product identifier

Product name : SPE Sodium Sulfate  
EC no : 231-820-9  
CAS No : 7757-82-6  
Formula : Na<sub>2</sub>SO<sub>4</sub>  
Synonyms : alcan recovered cryolite / bisodium sulfate / dibasic sodium sulfate / disodium monosulfate / disodium sulfate / kaiseroda / kemol / sodium sulfate (2:1) / sodium sulfate (Na<sub>2</sub>SO<sub>4</sub>) / sodium sulfate, crystalline / sodium sulfate, exsiccated / sodium sulfate, powder / sodium sulphate / Sulfuric acid disodium salt / sulfuric acid, disodium salt

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

##### 1.2.1. Relevant identified uses

Main use category : Laboratory Use  
Industrial/Professional use spec : For professional use only  
Industrial

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Phenomenex, Inc.  
411 Madrid Ave.  
90501 Torrance, CA - United States  
T 310-212-0555 - F 310-328-7768  
[info@phenomenex.com](mailto:info@phenomenex.com) - [www.phenomenex.com](http://www.phenomenex.com)

#### 1.4. Emergency telephone number

Emergency number : INFOTRAC assistance (United States): +1-800-535-5053  
INFOTRAC assistance (Outside United States): +1-352-323-3500

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

According to EC directives or the corresponding national regulations there is no labeling obligation for this product.

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Comments : This product contains no hazardous components

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice. Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.  
First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Allow victim to breathe fresh air. Allow the victim to rest.

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First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre ( <a href="http://www.big.be/antigif.htm">www.big.be/antigif.htm</a> ). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Adapt extinguishing media to the environment. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: No unsuitable extinguishing media known. Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Explosion hazard	: None.

### 5.3. Advice for firefighters

Firefighting instructions	: Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling. Take up in absorbent material.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures	: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.

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Incompatible materials	: Direct sunlight.
Storage temperature	: < 30 °C
Heat-ignition	: Keep away from heat, sparks and flame.
Prohibitions on mixed storage	: Keep away from oxidizing agents.
Storage area	: Keep only in the original container in a cool, well ventilated place.
Packaging materials	: SUITABLE MATERIAL: paper, cardboard, plastics. MATERIAL TO AVOID: aluminium.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls	: Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.



Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: butyl rubber, PVC. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.
Hand protection	: Gloves. Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
Eye protection	: Safety glasses. In case of dust production: protective goggles. Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Protective clothing. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
Respiratory protection	: Dust production: dust mask with filter type P1. Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline solid.
Molecular mass	: 142.04 g/mol
Color	: White.
Odor	: Odourless.
pH	: 8.0 (10 %)
pH solution	: 10 %
Melting point	: 884 °C
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 884 °C
Flammability (solid, gas)	: Non flammable
Relative density	: 2.7
Specific gravity / density	: 2680 kg/m <sup>3</sup>
Solubility	: Soluble in glycerol. Soluble in water. Water: 44.45 g/100ml (20 °C)
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

SADT	: Not applicable
Other properties	: Hygroscopic. No data available.

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Hygroscopic. Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

SPE Sodium Sulfate (7757-82-6)	
LD50 oral rat	> 10000 mg/kg (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value)
Irritation	: Not classified pH: 8.0 (10 %)
Corrosivity	: Not classified pH: 8.0 (10 %)
Sensitization	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

SPE Sodium Sulfate (7757-82-6)	
LC50 fish 1	13500 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	2564 mg/l (48 h; Daphnia magna)
LC50 fish 2	3040 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	880 mg/l (96 h; Amphipoda)
TLM fish 1	16500 mg/l (96 h; Gambusia affinis)
TLM fish 2	13500 mg/l (96 h; Lepomis macrochirus)
Threshold limit algae 1	4 mg/l (360 h; Chlorella sp.)

#### 12.2. Persistence and degradability

SPE Sodium Sulfate (7757-82-6)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test) data on mobility of the substance available. Not established.
ThOD	Not applicable (inorganic)

#### 12.3. Bioaccumulative potential

SPE Sodium Sulfate (7757-82-6)	
BCF other aquatic organisms 1	0.5
Log Pow	-4.38 (Calculated; US EPA)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.

#### 12.4. Mobility in soil

SPE Sodium Sulfate (7757-82-6)	
Surface tension	0.071 N/m (20 °C; 1.005 g/l)

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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Dispose in a safe manner in accordance with local/national regulations.

Additional information : LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not considered hazardous

Proper Shipping Name (IATA) : Not considered hazardous

### 14.3. Packing group

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Transport regulations (ADR) : Not subject

Transport regulations (RID) : Not subject

#### 14.6.2. Transport by sea

Transport regulations (IMDG) : Not subject

#### 14.6.3. Air transport

Transport regulations (IATA) : Not subject

#### 14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

PHV SDS EU

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