

1. IDENTIFICATION

Product Identifier

Product Name 1-Heptanesulfonate, sodium salt, monohydrate

Other means of identification

SDS # RT-004 (403027d)

Product Code 1-403027-200; 1-403027-500; 1-403057-200; 1-403127-200; 1-403227-200; 1-403327-200

Recommended use of the chemical and restrictions on use

Recommended Use Analytical Reagent: Ion Pairing for Chromatography.

Details of the supplier of the safety data sheet

Supplier Address

Regis Technologies, Inc.
8210 N. Austin Avenue
Morton Grove, IL 60053

Emergency Telephone Number

Company Phone Number 847-967-6000; 800-323-8144 (toll free)
Email: cservice@registech.com
www.registech.com
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2	H315
Serious eye damage/eye irritation	Category 2	H320
Specific target organ toxicity (single exposure)	Category 3	H335

Signal Word

Warning

Hazard Statements

H315 - Causes skin irritation
H320 - Causes eye irritation
H335 - May cause respiratory irritation



Precautionary Statements - Prevention

P264 - Wash thoroughly after handling
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P271 - Use only outdoors or in a well-ventilated area

Precautionary Statements – Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P304+P341-IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements – Storage

P402+P404 - Store in a dry place. Store in a closed container.
 P403+P235 - Store in a well-ventilated place. Keep cool.

Precautionary Statements – Disposal

P501 - Dispose of contents/container in accordance with all applicable governmental and environmental regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
1-Heptanesulfonate, sodium salt, monohydrate		
EC No. 245-210-5 (anhydrous)	207300-90-1	98-100
Formula C ₇ H ₁₅ NaO ₃ S•H ₂ O	(22767-50-6, anhydrous)	
Molecular Mass 220.26 (monohydrate)		

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Compound is in the anionic surfactants class (soaps).
Eye Contact	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.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. If irritation persists, consult physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if you feel unwell.

Most important symptoms and effects

Symptoms	Causes skin irritation. Causes eye irritation. May cause respiratory irritation. Redness of eyes or skin, dermatitis, or cough.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Symptomatic and supportive care. No specific antidote.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Unsuitable Extinguishing Media No data available.

Specific Hazards Arising from the Chemical

Slight fire hazard--As with most organic compounds, fire is possible at elevated temperatures or from contact with an ignition source. Explosion potential unknown--If a substance is an organic solid, fine dust dispersed in air in sufficient concentrations in the presence of an ignition source is a potential for a dust explosion. Avoid inhalation of material or combustion by-products.

Hazardous Combustion Products May emit carbon monoxide, carbon dioxide, sulfur oxides.

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, if appropriate.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Eliminate all ignition sources/slight fire hazard. Evacuate unnecessary people from area. Isolate spilled material. Ventilate area. Wear protective clothing to prevent contact with skin and eyes (lab coat, gloves, safety glasses). Wear NIOSH/MSHA approved respirator for dust to prevent potential inhalation irritation.

Environmental Precautions See Section 12 for additional Ecological Information. Keep out of waterways.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up If in solution, mix with sand or similar adsorbent material. Sweep up, seal in appropriate hazardous waste container, and hold for proper waste disposal. Avoid raising dust as it is a powdered material. Wash spill site after material pickup is complete. Dispose of contents/container to an approved waste disposal plant.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wear protective gloves/protective clothing and eye/face protection. Avoid breathing dusts. Use in a well-ventilated area. Wash face, hands, and any exposed skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from heat, sparks, open flame or any other ignition source.

Incompatible Materials Strong acids. Strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Mechanical Exhaust.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical safety eyewear.

Skin and Body Protection Compatible chemical-resistant gloves; Protective clothing (e.g., lab coat).

Respiratory Protection NIOSH/MSHA approved respirator with appropriate protections to prevent dust inhalation.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Powder	Odor	None
Appearance	White crystalline powder	Odor Threshold	No data available
Color	White		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	5.5-7.5 (10g/L)	@ 20°C	
Melting Point/Freezing Point	>300°C (>572°F)	Alkyl sulfonates may decompose prior to boiling. (Lit.)	
Boiling Point/Boiling Range	No data available		
Flash Point	No data available	@ 20°C (68°F)	
Evaporation Rate	No data available		
Flammability (Solid, Gas)	Not Flammable		
Upper Flammability Limits	No data available		
Lower Flammability Limit	No data available		
Vapor Pressure	No data available		
Vapor Density	No data available		
Specific Gravity	No data available		
Water Solubility	Soluble		
Solubility in other solvents	No data available		
Partition Coefficient	No data available		
Auto-ignition Temperature	No data available		
Decomposition Temperature	No data available		
Kinematic Viscosity	No data available		
Dynamic Viscosity	No data available		
Explosive Properties	No data available		
Oxidizing Properties	No data available		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Incompatible Materials. Dust formation.

Incompatible Materials

Strong acids. Strong oxidizers.

Hazardous Decomposition Products

May emit carbon oxides, sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Oral	No data available
Dermal	No data available
Inhalation	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
IARC	No data available
NTP	No data available
OSHA	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
RTECS Number	No data available

Information on likely routes of exposure**Product Information**

Eye Contact	Causes eye irritation.
Skin Contact	Causes skin irritation.
Inhalation	Avoid inhalation of dust.
Ingestion	Do not ingest.

Component Information**Information on physical, chemical and toxicological effects**

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Numerical measures of toxicity

Product level testing not available

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product as a whole has not been tested for ecotoxicity.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

No data available

General Notes

Do not empty into drains or water courses.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1-Heptanesulfonate, sodium salt, monohydrate				Present as anhydrous form						

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

*AICS - Australian Inventory of Chemical Substances***US Federal Regulations****CERCLA**

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).

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

CWA (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)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not applicable
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	B

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Revision Note:	New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet