

## Section 1 Identification

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**VION**  
BIOSCIENCES

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**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

<b>Product</b>	<b>SODIUM DODECYL SULFATE</b>
<b>Synonyms</b>	SDS, Sodium lauryl sulfate, sodium dodecyl sulphate

## Section 2 Hazards identification

**Signal word:** DANGER  
**Pictograms:** GHS02 / GHS05 / GHS07  
**Target organs:** Eyes, Skin, Respiratory system



**GHS Classification:**  
Flammable solids (Category 2)  
Acute toxicity - Oral (Category 4)  
Acute toxicity - Inhalation (Category 4)  
Skin irritation (Category 2)  
Serious eye damage (Category 1)  
STOT - Single exposure (Category 3)  
Aquatic acute (Category 1)  
Aquatic chronic (Category 3)

**GHS Label information: Hazard statement:**  
H228: Flammable solid.  
H302 + H332: Harmful if swallowed or inhaled.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H335: May cause respiratory irritation  
H401: Toxic to aquatic life.  
H412: Very toxic to aquatic life with long lasting effects

**Precautionary statement:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
P240: Ground and bond container and receiving equipment.  
P241: Use explosion-proof equipment.  
P261: Avoid breathing dust.  
P264+P265: Wash hands thoroughly after handling. Do not touch eyes.  
P270: Do not eat, drink, or smoke when using this product.  
P271: Use only outdoors or with adequate ventilation.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P317+P330: IF SWALLOWED: get medical help. Rinse mouth.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P362+P364: Take off contaminated clothing and wash before reuse.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P332+P317: Get medical help.  
P305+P354+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P273: Avoid release to the environment.  
P391: Collect spillage.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Explosive when dry. Contact with acids liberates toxic gas.  
Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Sodium Dodecyl Sulfate	151-21-3	100%	205-788-1

## Section 4 First aid measures

**INGESTION:** HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Have person drink water if able to swallow. Never give anything by mouth to an unconscious person.

**INHALATION:** HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE BURNS/DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** CAUSES SKIN BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. Get medical attention immediately.

## Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, water foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Suppress gasses / vapors / mists with a water spray jet.

## Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Do not flush with water.

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dust. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances. Protect from sunlight.

## Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium Dodecyl Sulfate	Not established	Not established	Not established

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical and chemical properties

<b>Appearance:</b> White granules.	<b>Evaporation rate ( = 1):</b> Data not available	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> No odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> 310.5°C (590.9°F)
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available	<b>Decomposition temperature:</b> Data not available
<b>pH:</b> 9.1	<b>Vapor pressure (mm Hg):</b> Data not available	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> 204-207°C (399-405°F)	<b>Vapor density (Air = 1):</b> Data not available	<b>Molecular formula:</b> C <sub>12</sub> H <sub>25</sub> O <sub>4</sub> S·Na
<b>Boiling point:</b> Data not available.	<b>Relative density (Specific gravity):</b> 0.455 g/cm <sup>3</sup>	<b>Molecular weight:</b> 288.38
<b>Flash point:</b> 170°C (338°F)	<b>Solubility(ies):</b> Soluble in water.	

## Section 10 Stability and reactivity

**Chemical stability:** Stable at ambient temperature

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures.

**Incompatible materials:** Data not available

**Hazardous decomposition products:** In the event of fire see section 5

## Section 11 Toxicological information

**Acute toxicity:** Oral - Rat LD50 977 mg/kg

**Skin corrosion/irritation:** Rabbit - irritant

**Serious eye damage/irritation:** Rabbit - Severe irritant

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** May cause respiratory irritation.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: pulmonary sensitization resulting in hyperactive airway and pulmonary allergy.

Ingestion: Abdominal pain.

Skin: Tiredness and vasodilation.

Eyes: Redness, pain, severe deep burns.

**Signs and symptoms of exposure:** Repeated or prolonged contact may cause skin sensitization. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: WT1050000

## Section 12 Ecological information

**Toxicity to fish:** Fish (fathead minnow) LC50 = 29 mg/l 96 hour :

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna LC50 = 5.55mg/l 48 hour

**Toxicity to algae:** Desmodesmus subspicatus (green algaw) ErC50 = >120mg/l 72h

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport information

**UN/NA number:** UN1325

**Shipping name:** Flammable solid, organic, n.o.s (Sodium dodecyl sulfate)

**Hazard class:** 4.1

**Packing group:** III

**Reportable Quantity:** No

**Marine pollutant:** Yes

**Exceptions:** None

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## Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium Dodecyl Sulfate	Listed	Listed	Listed	Listed	Listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

## Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.