

SAFETY DATA SHEET

1. Identification

Product identifierSODIUM SULFATE, DECAHYDRATE, REAGENT (ACS)Other means of identificationProduct code3596Recommended useprofessional, scientific and technical activities: other professional, scientific and technical activities:Recommended restrictionsNone known.Manufacturer/Importer/Suppletributor informationManufacturer

Company name Address	GFS Chemicals, Inc. P.O. Box 245 Powell, OH 43065 United States	
Telephone	Phone Toll Free Fax	740-881-5501 800-858-9682 740-881-5989
Website E-mail	www.gfschemicals.com service@gfschemicals.com	
Emergency phone number	Emergency Assistance	Chemtrec 800-424-9300

2. Hazard(s) identification

× 7	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The substance does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
SODIUM SULFATE, DECAHYDRATE		7727-73-3	100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Flush eyes with water as a precaution.
Ingestion	Have victim rinse mouth thoroughly with water.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Material name: SODILIM SULFATE DECAHYDRATE REAGENT (ACS)	

Material name: SODIUM SULFATE, DECAHYDRATE, REAGENT (ACS)3596Version #: 01Revision date:Issue date: February-09-2016

Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

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Suitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	None known.
Special 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.
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. Should not be released into the environment. Stop the flow of material, if this is without risk. Sweep up or gather material and place in appropriate container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Observe good industrial hygiene practices.
Conditions for safe storage, including any	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
incompatibilities	

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	General ventilation normally adequate. Keep formation of airborne dusts to a minimum.
Individual protection measure	es, such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Efflorescent crystals.
Physical state	Solid.
Form	Solid.
Color	White.
Odor	Odorless.
Odor threshold	Not available.
Matorial name: CODILIM CLILEATE	DECALIVEDATE DEACENT (ACC)

рН	5.2 - 9.2 5% solution in water
Melting point/freezing point	89.6 °F (32 °C) loses water of hydration at 100 C
Initial boiling point and boiling range	Not available.
Flash point	Not flammable
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	explosive limits
Flammability limit - lower (%)	Not flammable
Flammability limit - upper (%)	Not flammable
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.46 g/cm3
Molecular formula	Na2SO4.10H2O
Molecular weight	322.20 g/mol
Specific gravity	1.46

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Will effloresce (lose water of hydration) in dry air.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known. Contact with incompatible materials.
Incompatible materials	None known.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.	
Skin contact	No adverse effects due to skin contact are expected.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Expected to be a low ingestion hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological effects		

Information on toxicological effects

Acute toxicity

Product	Species		Test Results
SODIUM SULFATE, DECAHYDRATE	E (CAS 7727-73-3)		
<u>Acute</u>			
Oral			
LD50	Rat		5989 mg/kg (as anhyrdous salt)
* Estimates for product may b	e based on additional con	nponent data not shown.	
Skin corrosion/irritation	Prolonged skin contact r	nay cause temporary irritation	n.
Serious eye damage/eye irritation	Irritating to eyes.		
Respiratory or skin sensitizati	on		
Respiratory sensitization	Not available.		
Skin sensitization	This product is not expe	cted to cause skin sensitization	on.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not cons	dered to be a carcinogen by	IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overal	Evaluation of Carcinog	enicity	
Not listed.			
US OSHA Hazard Categorie	es (1)		
Not regulated. US OSHA Hazard Categorie	ac (10)		
Not regulated.	25 (10)		
US OSHA Hazard Categorie	es (2)		
Not regulated.			
US OSHA Hazard Categorie	es (3)		
Not regulated.			
US OSHA Hazard Categorie	es (4)		
Not regulated. US OSHA Hazard Categorie	es (5)		
Not regulated. US OSHA Hazard Categorie	es (6)		
Not regulated.			
US OSHA Hazard Categorie	es (7)		
Not regulated. US OSHA Hazard Categorie	es (8)		
Not regulated.			
US OSHA Hazard Categorie	es (9)		
Not regulated.			
US. National Toxicology P	ogram (NTP) Report o	n Carcinogens	
Not listed.			
Reproductive toxicity		cted to cause reproductive or	r developmental effects.
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not available.		
12. Ecological informatic		orted to be bermful to accust	c life
Ecotoxicity		ected to be harmful to aquation	
	Species		Test Results
SODIUM SULFATE, DECAHYD Aquatic	TAIE (LAS //2/-/3-3)		
-	EC50 Water fle	ea (Ceriodaphnia dubia)	5634 - 6993 mg/l, 48 hours

Striped bass (Morone saxatilis)

* Estimates for product may be based on additional component data not shown.

LC50

Persistence and degradability None known.

Fish

Bioaccumulative potential No data available.

790 mg/l, 96 hours

Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazarc Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40	CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substance List (40 CFR	302.4)
Not listed.	
SARA 304 Emergency release notification	
Not regulated.	
US OSHA Hazard Categories (1)	
Not regulated.	
US OSHA Hazard Categories (2)	
Not regulated.	
US OSHA Hazard Categories (3)	
Not regulated.	
US OSHA Hazard Categories (4)	
Not regulated.	
US OSHA Hazard Categories (5)	
Not regulated.	
US OSHA Hazard Categories (6)	
Not regulated.	
US OSHA Hazard Categories (7)	
Not regulated.	
US OSHA Hazard Categories (8)	
Not regulated.	
US OSHA Hazard Categories (9)	
Not regulated.	
US OSHA Hazard Categories (10)	
Not regulated.	

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Superfullu Amenuments and R	eaution zation Act of 1966 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazar	dous substance
Not listed.	
SARA 311/312	No
Hazardous chemical	
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List
Not regulated.	
Clean Air Act (CAA) Section	n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug	Total food additive
Administration (FDA)	Indirect food additive

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- **US. Massachusetts RTK Substance List**

SODIUM SULFATE, DECAHYDRATE (CAS 7727-73-3)

US. New Jersey Worker and Community Right-to-Know Act Not listed.

GRAS food additive

- US. Pennsylvania Worker and Community Right-to-Know Law SODIUM SULFATE, DECAHYDRATE (CAS 7727-73-3)
- **US. Rhode Island RTK**

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date February-09-2016 Version # 01

GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Revision information

Product and Company Identification: Product Codes Composition / Information on Ingredients: Disclosure Overrides Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data HazReg Data: International Inventories