

Safety Data Sheet
Step II

SDS Revision Date:

08/20/2015

1. Identification**1.1. Product identifier****Product Identity** Step II**Alternate Names** Step II**1.2. Relevant identified uses of the substance or mixture and uses advised against****Intended use** See Technical Data Sheet.**Application Method** See Technical Data Sheet.**1.3. Details of the supplier of the safety data sheet**

Company Name	Deep South Chemical, Inc. 229 Millstone Road Broussard, LA 70518 (337) 837-9931
CHEMTREC (USA)	(800) 424-9300
Emergency Phone	(337) 837-9931; Outside the U.S.A. (703) 527-3887
Customer Service: Deep South Chemical, Inc.	Phone: (800) 737-3546 Fax: (337) 837-9565

2. Hazard(s) identification**2.1. Classification of the substance or mixture**

Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Resp. Sens. 1;H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Repr. 1B;H360D	May damage the unborn child.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

**Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H360D May damage the unborn child.

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[Prevention]:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves / eye protection / face protection.
- P285 In case of inadequate ventilation wear respiratory protection.

[Response]:

- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P308+313 IF exposed or concerned: Get medical advice / attention.
- P321 Specific treatment (see information on this label).
- P333+313 If skin irritation or a rash occurs: Get medical advice / attention.
- P337+313 If eye irritation persists: Get medical advice / attention.
- P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.

[Storage]:

- P405 Store locked up.

[Disposal]:

- P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
sodium N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-β-alaninate CAS Number: 0064972-19-6	1 - 5	Eye Irrit. 2;H319 Aquatic Chronic 3;H412	[1]
Nonylphenol polyethylene glycol ether CAS Number: 0127087-87-0	1 - 5	Eye Dam. 1;H318 Acute Tox. 4;H302 Skin Irrit. 2;H315	[1]
pentasodium triphosphate CAS Number: 0007758-29-4	1 - 5	Not Classified	[1]
Sodium silicate pentahydrate CAS Number: 0010213-79-3	1 - 5	Skin Corr. 1;H314 STOT SE 3;H335	[1]
Sodium gluconate CAS Number: 0000527-07-1	1 - 5	Not Classified	[1]
Sodium hydroxide CAS Number: 0001310-73-2	1 - 5	Skin Corr. 1A;H314 Acute Tox. 4;H312 Aquatic Acute 2;H401 Aquatic Chronic 2;H411	[1][2]

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2-Methoxy-1-propanol CAS Number: 0001589-47-5	1 - 5	Flam. Liq. 3;H226 Repr. 1B;H360D STOT SE 3;H335 Skin Irrit. 2;H315 Eye Dam. 1;H318	[1]
CHLOROBENZYLIDENE MALONITRILE CAS Number: 0002698-41-1	1 - 5	Acute Tox. 3;H301 Skin Sens. 1;H317 Resp. Sens. 1;H334 Aquatic Acute 1;H400	[1][2]
(2-methoxymethylethoxy)propanol CAS Number: 0034590-94-8	1 - 5	Not Classified	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed, rinse mouth with water. Give 2-3 large glasses of water. Do not induce vomiting. Seek medical attention.

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

Overview	<u>Inhalation:</u> May irritate the respiratory tract when used with inadequate ventilation. <u>Skin Contact:</u> Slightly irritating to the skin (redness, burns). <u>Eye Contact:</u> Causes moderate eye irritation (redness, burns, and possible cornea injury). <u>Ingestion:</u> May cause diarrhea. May cause severe burning or irritation of gastrointestinal tract and possible mucosal injury. See section 2 for further details.
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eyes	Causes serious eye irritation.
Skin	May cause an allergic skin reaction. Causes skin irritation.

5. Fire-fighting measures**5.1. Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.
Do not use: water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.
Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

None

ERG Guide No. ----

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

In the event of a spill or leak, wipe up and absorb spilled material, then shovel it up. Collect and reuse if possible.

7. Handling and storage**7.1. Precautions for safe handling**

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Incompatible with strong acids and oxidizers.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000527-07-1	Sodium gluconate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0001310-73-2	Sodium hydroxide	OSHA	TWA 2 mg/m ³
		ACGIH	Ceiling: 2 mg/m ³
		NIOSH	C 2 mg/m ³
		Supplier	No Established Limit
0001589-47-5	2-Methoxy-1-propanol	OSHA	No Established Limit
		ACGIH	TWA: 20 ppm STEL: 40 ppm
		NIOSH	No Established Limit
		Supplier	No Established Limit
0002698-41-1	CHLOROBENZYLIDENE MALONITRILE	OSHA	TWA 0.05 ppm (0.4 mg/m ³)
		ACGIH	Ceiling: 0.05 ppmSkin
		NIOSH	C 0.05 ppm (0.4 mg/m ³) [skin]
		Supplier	No Established Limit
0007758-29-4	pentasodium triphosphate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0010213-79-3	Sodium silicate pentahydrate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0034590-94-8	(2-methoxymethylethoxy)propanol	OSHA	TWA 100 ppm (600 mg/m ³) [skin]
		ACGIH	TWA: 100 ppm STEL: 150 ppm Skin
		NIOSH	TWA 100 ppm (600 mg/m ³) ST 150 ppm (900 mg/m ³) [skin]
		Supplier	No Established Limit
0064972-19-6	sodium N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-β-alaninate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0127087-87-0	Nonylphenol polyethylene glycol ether	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

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Carcinogen Data

CAS No.	Ingredient	Source	Value
0000527-07-1	Sodium gluconate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001310-73-2	Sodium hydroxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001589-47-5	2-Methoxy-1-propanol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0002698-41-1	CHLOROBENZYLIDENE MALONITRILE	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007758-29-4	pentasodium triphosphate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0010213-79-3	Sodium silicate pentahydrate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0034590-94-8	(2-methoxymethylethoxy)propanol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0064972-19-6	sodium N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-β-alaninate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0127087-87-0	Nonylphenol polyethylene glycol ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes

Chemical type goggles are recommended.

Skin

Safety gloves are recommended.

Engineering Controls

Normal ventilation should be sufficient under normal use conditions.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Green Liquid
Odor	Slight Soap Odor
Odor threshold	Not determined
pH	9.4
Melting point / freezing point	32°F
Initial boiling point and boiling range	195°F
Flash Point	Not Measured
Evaporation rate (Ether = 1)	> 1
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	1.078
Solubility in Water	Appreciable
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity**10.1. Reactivity**

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Incompatible with strong acids and oxidizers.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

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11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
sodium N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-β-alaninate - (64972-19-6)	No data available	No data available	No data available	No data available	No data available
Nonylphenol polyethylene glycol ether - (127087-87-0)	No data available	No data available	No data available	No data available	No data available
pentasodium triphosphate - (7758-29-4)	3,120.00, Rat - Category: 5	No data available	No data available	No data available	No data available
Sodium silicate pentahydrate - (10213-79-3)	847.00, Rat - Category: 4	No data available	No data available	No data available	No data available
Sodium gluconate - (527-07-1)	No data available	No data available	No data available	No data available	No data available
Sodium hydroxide - (1310-73-2)	6,600.00, Mouse - Category: NA	1,350.00, Rabbit - Category: 4	600.00, Mouse - Category: NA	No data available	No data available
2-Methoxy-1-propanol - (1589-47-5)	No data available	No data available	No data available	No data available	No data available
CHLOROBENZYLIDENE MALONITRILE - (2698-41-1)	No data available	No data available	No data available	No data available	No data available
(2-methoxymethylethoxy)propanol - (34590-94-8)	3,500.00, Rat - Category: 5	19,000.00, Rabbit - Category: NA	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	1	May cause allergy or asthma symptoms of breathing difficulties if inhaled.
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	1B	May damage the unborn child.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

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12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
sodium N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-β-alaninate - (64972-19-6)	Not Available	Not Available	Not Available
Nonylphenol polyethylene glycol ether - (127087-87-0)	Not Available	Not Available	Not Available
pentasodium triphosphate - (7758-29-4)	Not Available	Not Available	Not Available
Sodium silicate pentahydrate - (10213-79-3)	Not Available	Not Available	Not Available
Sodium gluconate - (527-07-1)	Not Available	Not Available	Not Available
Sodium hydroxide - (1310-73-2)	196.00, <i>Poecilia reticulata</i>	40.38, <i>Ceriodaphnia dubia</i>	Not Available
2-Methoxy-1-propanol - (1589-47-5)	Not Available	Not Available	Not Available
CHLOROBENZYLIDENE MALONITRILE - (2698-41-1)	Not Available	Not Available	Not Available
(2-methoxymethylethoxy)propanol - (34590-94-8)	10,000.00, <i>Pimephales promelas</i>	1,919.00, <i>Daphnia magna</i>	969.00 (72 hr), Algae

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

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14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user			
	No further information		

15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.
WHMIS Classification	D2A
US EPA Tier II Hazards	<p>Fire: No</p> <p>Sudden Release of Pressure: No</p> <p>Reactive: No</p> <p>Immediate (Acute): Yes</p> <p>Delayed (Chronic): No</p>
EPCRA 311/312 Chemicals and RQs (lbs):	<p>pentasodium triphosphate (5,000.00)</p> <p>Sodium hydroxide (1,000.00)</p>
EPCRA 302 Extremely Hazardous:	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
EPCRA 313 Toxic Chemicals:	(2-methoxymethylethoxy)propanol
Proposition 65 - Carcinogens (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Developmental Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Female Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
Proposition 65 - Male Repro Toxins (>0.0%):	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



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New Jersey RTK Substances (>1%):

(2-methoxymethylethoxy)propanol
CHLOROBENZYLIDENE MALONITRILE
Sodium hydroxide

Pennsylvania RTK Substances (>1%):

(2-methoxymethylethoxy)propanol
CHLOROBENZYLIDENE MALONITRILE
pentasodium triphosphate
Sodium hydroxide

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H400 Very toxic to aquatic life.
H401 Toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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