

SAFETY DATA SHEET



BIO-SOFT® N-300

Version 1.1
Revision Date: 03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

SECTION 1. IDENTIFICATION

Product name : BIO-SOFT® N-300

Product code : 1073120

Manufacturer or supplier's details

Company name of supplier : STEPAN US

Address : 1101 Skokie Blvd, Suite 500
Northbrook IL 60062

Telephone : (847) 446-7500

Emergency telephone Medical 1-800-228-5635 (Available 24 hours a day.
SDS/Product information may not be
available for the emergency service.)
Chemtrec 1-800-424-9300
Chemtrec Int'l 1-703-527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Surfactant

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal Word : Danger

BIO-SOFT® N-300

Version 1.1
Revision Date:
03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

Hazard Statements : H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	CAS-No.	Concentration (% w/w)
dodecylbenzenesulphonic acid, compound with 2,2',2''-nitrilotriethanol (1:1)	27323-41-7	50 - 60
2,2'-iminodiethanol	111-42-2	1 - 5
sodium sulphate	7757-82-6	1 - 5

SECTION 4. FIRST AID MEASURES

General advice : Immediate medical attention is required.
Show this material safety data sheet to the doctor in attendance.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.

In case of skin contact : Remove contaminated clothing and shoes.
Wash off with soap and water.

BIO-SOFT® N-300

Version
1.1Revision Date:
03/04/2025Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

		Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
In case of eye contact	:	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Continue rinsing. Get medical attention immediately.
If swallowed	:	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide, dry powder, foam. Fog
Unsuitable extinguishing media	:	Water spray jet
Specific hazards during fire fighting	:	May release toxic, irritating and/or corrosive gases.
Further information	:	Standard procedure for chemical fires.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	:	Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)

BIO-SOFT® N-300

Version 1.1
Revision Date:
03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

and transfer to a container for disposal according to local / national regulations (see section 13).
Clean thoroughly.
After cleaning, flush away traces with water.
Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Technical measures : Ensure that eyewash stations and safety showers are close to the workstation location.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Wear personal protective equipment.
For personal protection see section 8.
Provide sufficient air exchange and/or exhaust in work rooms.
As a rule, at least 10 air changes per hour are recommended at the workplace.
Handle and open container with care.
Keep container closed when not in use.
Do not get in eyes or mouth or on skin.
Do not swallow.
Do not breathe dust, fume, gas, mist, vapors or spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
- Conditions for safe storage : Store in original container.
Keep tightly closed.
- Materials to avoid : Store away from incompatible materials (see Section 10 of the SDS).
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,2'-iminodiethanol	111-42-2	TWA (Inhalable fraction and vapor)	1 mg/m ³	ACGIH
		TWA	3 ppm 15 mg/m ³	NIOSH REL
		TWA	3 ppm 15 mg/m ³	OSHA P0

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

SAFETY DATA SHEET



BIO-SOFT® N-300

Version
1.1

Revision Date:
03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

equipment.

Hand protection

Remarks : Protective gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear safety glasses with side shields or goggles.
Face-shield

Skin and body protection : Lightweight protective clothing
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Hygiene measures : Do not taste or swallow.
General industrial hygiene practice.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.
Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear liquid

Color : yellow

pH : 6.8 - 7.5
(1% dilution in water)

Melting point/freezing point : 10 °F / -12 °C

Pour point 16 °F / -9 °C

Boiling point/boiling range : > 199.99 °F / > 93.33 °C

Flash point : > 201.0 °F / > 93.9 °C

Method: Pensky-Martens closed cup

Density : 9 lb/gal

Viscosity
Viscosity, dynamic : 2,238 mPa.s (77 °F / 25 °C)

BIO-SOFT® N-300

Version 1.1
Revision Date:
03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Incompatible materials Contact with incompatible materials.
Incompatible materials	: Strong oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if swallowed.

Product:

Acute oral toxicity	: LD50: > 1,000 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The component/mixture is minimally toxic after single contact with skin.

Skin corrosion/irritation

Causes skin irritation.

Product:

Result	: Irritating to skin.
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Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result	: Corrosive
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Respiratory or skin sensitization**Skin sensitization**

Based on available data, the classification criteria are not met.

BIO-SOFT® N-300

Version 1.1
Revision Date: 03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

Respiratory sensitization

Based on available data, the classification criteria are not met.

Product:

Result : Not sensitising

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product:

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Based on available data, the classification criteria are not met.

Product:

Remarks : Due to inadequate evidence of carcinogenicity of diethanolamine in humans, classification is not possible.

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC Group 2B: Possibly carcinogenic to humans
2,2'-iminodiethanol 111-42-2

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

Reproductive toxicity

Not classified due to lack of data.

Product:

Effects on fetal development : Remarks: This product contains diethanolamine (DEA). In laboratory animal studies, effects on reproduction have been seen only at doses of DEA that produced significant toxicity to the parent animals. Repeated excessive exposures to high amounts of DEA may cause effects on testes and fertility in males. DEA has also been shown to cause developmental toxicity in laboratory animals, however these effects were only seen at high doses in the presence of maternal toxicity.

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT-single exposure

Based on available data, the classification criteria are not met.

Product:

SAFETY DATA SHEET



BIO-SOFT® N-300

Version
1.1

Revision Date:
03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Product:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : Not applicable

Aspiration toxicity

Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Fish): 6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia): 6.9 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (algae): 50 - 100 mg/l
plants Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.

BIO-SOFT® N-300

Version 1.1
Revision Date: 03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging : The hazard and precautionary statements displayed on the label also apply to any residues left in the container.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation**49 CFR**

UN/ID/NA number : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Triethanolamine dodecylbenzene sulfonate)
Class : 9
Packing group : III

BIO-SOFT® N-300

Version 1.1
Revision Date: 03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

Labels : CLASS 9
ERG Code : 171
Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
dodecylbenzenesulphonic acid, compound with 2,2',2''-nitrilotriethanol (1:1)	27323-41-7	1000	1639

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

2,2'-iminodiethanol 111-42-2 >= 1 - < 5 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

2,2'-iminodiethanol 111-42-2 >= 1 - < 5 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

dodecylbenzene 123-01-3 >= 1 - < 5 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

dodecylbenzenesulphonic acid, compound with 2,2',2''-nitrilotriethanol (1:1) 27323-41-7 >= 50 - < 70 %

BIO-SOFT® N-300

Version
1.1Revision Date:
03/04/2025Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

sodium hydrogensulfite 7631-90-5 $\geq 0 - < 0.1 \%$
The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

dodecylbenzenesulphon- 27323-41-7 $\geq 50 - < 70 \%$
ic acid, compound with
2,2',2''-nitrilotriethanol
(1:1)

sodium hydrogensulfite 7631-90-5 $\geq 0 - < 0.1 \%$
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

California Prop. 65

WARNING: This product can expose you to chemicals including 2,2'-iminodiethanol, 1,4-dioxane, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

dodecylbenzenesulphonic acid, compound with 2,2',2''- 27323-41-7
nitrilotriethanol (1:1)
2,2'-iminodiethanol 111-42-2

California Permissible Exposure Limits for Chemical Contaminants

2,2'-iminodiethanol 111-42-2

The ingredients of this product are reported in the following inventories:

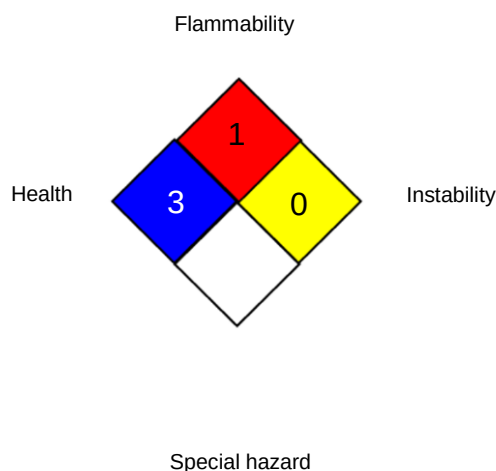
TSCA	: On the inventory, or in compliance with the inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: On the inventory, or in compliance with the inventory
IECSC	: All components are listed on the inventory, regulatory obligations/restrictions apply
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: Not in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION**Further information**

BIO-SOFT® N-300

Version 1.1 Revision Date: 03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

NFPA 704:

HMIS® IV:

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure-Activity Relationship

BIO-SOFT® N-300

Version
1.1

Revision Date:
03/04/2025

Date of last issue: 10/05/2023
Date of first issue: 10/05/2023

tative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Revision Date : 03/04/2025

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