# Stepan 💃

# SAFETY DATA SHEET

#### 1. Identification

Product identifier BIO-SOFT TA-2

Other means of identification

Product code 0393
Recommended use Surfactant

**Recommended restrictions** For industrial use only. **Manufacturer/Importer/Supplier/Distributor information** 

Manufacturer

Company name Stepan Company
Address 22 West Frontage Road
Northfield, IL 60093

USA

**Telephone** General 1-847-446-7500

E-mail Not available.

Emergency phone number Medical 1-800-228-5635

Chemtrec 1-800-424-9300 Chemtrec Int'l +1 703-527-3887

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, dermal Category 4
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1
Hazardous to the aquatic environment, acute Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage.

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention** Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Category 2

Avoid release to the environment.

**Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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. Specific treatment (see this label). Take off contaminated clothing and wash before

reuse. Collect spillage.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise None known.

classified (HNOC)

Material name: BIO-SOFT TA-2 SDS US

Material ID: 331 Product code: 0393 Version #: 10 Revision date: 12-16-2019 Print date: 12-16-2019

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Ingestion

| Chemical name                     | Common name and synonyms | CAS number | %        |
|-----------------------------------|--------------------------|------------|----------|
| Amines, tallow alkyl, ethoxylated |                          | 61791-26-2 | 90 - 100 |

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delaved

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

During fire, gases hazardous to health may be formed.

Dry chemical, foam, carbon dioxide, water fog.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Move containers from fire area if you can do so without risk.

Water. Do not use water jet as an extinguisher, as this will spread the fire.

Fire fighting equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Material name: BIO-SOFT TA-2

#### 7. Handling and storage

**Precautions for safe handling** Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material

in contact with skin. Do not taste or swallow. Avoid prolonged exposure. Do not get this material on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the

environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container.

#### 8. Exposure controls/personal protection

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

Eye/face protection Wear eye/face protection. Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Wear protective gloves.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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** 

Physical state Liquid.
Form Liquid.
Color Amber.
Odor Not available.

Odor threshold Not available.

**pH** 9.8 (5% in 1:1 IPA/H2O)

Initial boiling point and boiling

Melting point/freezing point

range

> 212 °F (> 100 °C)

Flash point > 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup

Not available.

**Evaporation rate** Estimated slower than ethyl ether

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressureNot determined or unknownVapor densityEstimated heavier than air

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Auto-ignition temperature Not available.

Material name: BIO-SOFT TA-2

Material ID: 331 Product code: 0393 Version #: 10 Revision date: 12-16-2019 Print date: 12-16-2019

**Decomposition temperature**Not available. **Viscosity**70 cP @ 38C

Other information

 Pour point
 69.8 °F (21 °C)

 Specific gravity
 0.89 @ 38C

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Heat, flames and sparks. Reacts violently with strong alkaline substances. This product may react

with reducing agents. Contact with incompatible materials.

Incompatible materials Strong acids and oxidizing agents

Hazardous decomposition

products

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

**Skin contact** Causes severe skin burns. Harmful in contact with skin.

**Eye contact** Causes serious eye damage.

**Ingestion** Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

# Information on toxicological effects

Acute toxicity Harmful in contact with skin. Harmful if swallowed.

Product Species Test Results

**BIO-SOFT TA-2** 

**Acute** 

**Dermal** 

LD50 Rabbit > 1260 mg/kg

Oral

LD50 Rat 1437 mg/kg male

1316 mg/kg female

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

## Respiratory or skin sensitization

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**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 considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Material name: BIO-SOFT TA-2 SDS US

Specific target organ toxicity -

single exposure

Not applicable.

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Specific target organ toxicity -

repeated exposure

Not applicable.

**Aspiration hazard** Not applicable.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Product Species Test Results

BIO-SOFT TA-2

Aquatic

Acute

 Algae
 EC50
 Algae
 0.008 mg/l, 24 hours

 Crustacea
 EC50
 Daphnia
 0.47 mg/l, 48 hours

Fish LC50 Fish 0.18 - 0.99 mg/l, 96 hours

Persistence and degradability

Bioaccumulative potential

Expected to be readily biodegradable.

No data available.

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** Dispose of contents/container in accordance with local/regional/national/international 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.

# 14. Transport information

DOT

UN number UN2735

UN proper shipping name Transport hazard class(es) Amines, Liquid, Corrosive, N.O.S. (Amines, tallow alkyl, ethoxylated), MARINE POLLUTANT

Class 8
Subsidiary risk Packing group ||

**Environmental hazards** 

Marine pollutant Yes

Special precautions for user Not available.

**IATA** 

UN number UN2735

UN proper shipping name Transport hazard class(es) Amines, Liquid, Corrosive, N.O.S. (Amines, tallow alkyl, ethoxylated)

Class 8
Subsidiary risk Packing group ||

**Environmental hazards** Marine Pollutant **Special precautions for user** Not available.

**IMDG** 

UN number UN2735

UN proper shipping name Transport hazard class(es) Amines, Liquid, Corrosive, N.O.S. (Amines, tallow alkyl, ethoxylated), MARINE POLLUTANT

Class 8
Subsidiary risk -

Material name: BIO-SOFT TA-2

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Material ID: 331 Product code: 0393 Version #: 10 Revision date: 12-16-2019 Print date: 12-16-2019

**Packing group** Ш **Environmental hazards** 

> Marine pollutant Yes

**EmS** Not available. Special precautions for user Not available. Not available. Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code





IATA; IMDG



## Marine pollutant



# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Material name: BIO-SOFT TA-2 SDS US Classified hazard categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

#### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA)

Hazardous substance

Section 112(r) (40 CFR

68.130)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### **California Proposition 65**



WARNING: This product can expose you to chemicals including acetaldehyde, which are known to the State of California to cause cancer, and ethylene glycol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-dioxane (CAS 123-91-1) Listed: January 1, 1988 Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988 Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987

#### California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene Glycol (CAS 107-21-1) Listed: June 19, 2015 Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

#### California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: February 27, 1987

# California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

#### 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                    |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)          | Yes                    |
| New Zealand          | New Zealand Inventory (NZIoC)                                     | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes                    |

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

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

08-26-2014 Issue date 12-16-2019 **Revision date** 

Version # Health: 3 **HMIS®** ratings

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 3

> Flammability: 1 Instability: 0

Material name: BIO-SOFT TA-2

<sup>\*</sup>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).

#### **Disclaimer**

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**Revision information** 

Hazard(s) identification: Supplemental information

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Regulatory Information: United States