

# SAFETY DATA SHEET

# 1. Identification

Product identifier	BIO-SOFT EC-690	
Other means of identification		
Product code	2035	
Recommended use	Surfactant	
<b>Recommended restrictions</b>	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
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	

### Label elements



Signal word	Danger
Hazard statement	Harmful if swallowed. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wear eye/face protection. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves.
Response	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. If on skin: Wash with plenty of water. 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.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

# Mixtures

Chemical name	Common name and synonyms	CAS number	%
Alcohols, C10-16, Ethoxylated (Alternate CAS 9002-92-0 or C/ 68551-12-2)	AS	68002-97-1	89 - 91
Water		7732-18-5	5 - < 10
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if sympton	ns develop or persist.	
Skin contact	Wash with plenty of soap and water. If skin in contaminated clothing and wash before reuse		vice/attention. Take off
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get		
Ingestion	Rinse mouth. Get medical attention if sympto poison control center.	oms occur. Do not induce vomit	ing without advice from
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, red damage including blindness could result. Ski		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed.	eat symptomatically. Keep victir	n under observation.
General information	Ensure that medical personnel are aware of the protect themselves.	the material(s) involved, and ta	ke precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Cart	oon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	nis will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be worr	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothin or spilled material unless wearing appropriate Local authorities should be advised if signific	g during clean-up. Do not touch e protective clothing. Ensure ac	n damaged containers lequate ventilation.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this possible. Cover with plastic sheet to prevent and place into containers. Prevent product fro area with water.	spreading. Absorb in vermiculit	e, dry sand or earth
	Small Spills: Wipe up with absorbent materia remove residual contamination.	l (e.g. cloth, fleece). Clean surf	ace thoroughly to
	Never return spills to original containers for re	e-use.	
Environmental precautions	Avoid release to the environment. Contact lo environment. Prevent further leakage or spill discharge into drains, water courses or onto	age if safe to do so. Do not con	
7. Handling and storage			
Precautions for safe handling	Do not get this material in contact with eyes. Avoid contact with clothing. Provide adequate equipment. Observe good industrial hygiene empty into drains.	e ventilation. Wear appropriate	personal protective
Conditions for safe storage, including any incompatibilities	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 measure	s, such as personal protective equipment
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.
<b>Respiratory protection</b>	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	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	6 - 8 (1% in 10:6 IPA:H2O)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	> 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
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)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 200 cP
Other information	
Specific gravity	0.99 @ 25C
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	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

# 11. Toxicological information

# Information on likely routes of exposure

Information on likely routes of e	exposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	Prolonged skin contact may cause temporary irritation.		
Eye contact	Causes serious eye damage.	Causes serious eye damage.	
Ingestion	Harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	Not available.		
Information on toxicological eff	ects		
Acute toxicity	Harmful if swallowed.		
Product	Species	Test Results	
BIO-SOFT EC-690			
Acute			
Dermal			
LD50	Rabbit	> 2 g/kg	
Skin corrosion/irritation	Prolonged skin contact may cause	e temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
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.		
Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001- ogram (NTP) Report on Carcinoge		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not applicable.		
Specific target organ toxicity - repeated exposure	Not applicable.		
Aspiration hazard	Not applicable.		
12. Ecological information	n		
Ecotoxicity	Toxic to aquatic life. Harmful to ac	uatic life with long lasting effects.	
Product	Spacios Tost Posulte		

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Product		Species	Test Results
BIO-SOFT EC-690			
Aquatic			
Acute			
Algae	EC50	Algae	1 - 10 mg/l, 72 hours
Crustacea	EC50	Daphnia	1 - 10 mg/l, 48 Hours

Product	Species		Test Results	
Fish	LC50	Fish	1 - 10 mg/l, 96 hours	
Persistence and degradability	Readily biodegradable.			
Bioaccumulative potential	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

Not regulated as dangerous goods.

### ΙΑΤΑ

Not regulated as dangerous goods.

# IMDG

Not regulated as dangerous goods.

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

# 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 chemical	Yes
Classified hazard categories	Acute toxicity (any route of exposure) 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 Not regulated.

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
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# (SDWA) US state regulations

# California Proposition 65

Safe Drinking Water Act

**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/Ca	rcinogenic substance
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/De	velopmental 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/Fe	male reproductive toxin
Ethylene oxide (CAS 75-21-8)	Listed: February 27, 1987
California Proposition 65 - CRT: Listed date/Ma	le 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
Taiwan	Taiwan Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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	09-12-2014
Revision date	07-23-2020
Version #	08
HMIS® ratings	Health: 3 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 3 Flammability: 1 Instability: 0
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Revision information	Composition / Information on Ingredients: Disclosure Overrides