

SAFETY DATA SHEET

1. Identification

Product identifier	BIO-TERGE AS-40 HASB	
Other means of identification		
Product code	8177	
Recommended use	Surfactant	
Recommended restrictions	None known.	
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	Skin corrosion/irritation	Category 2
	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	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.
Response	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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
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	Not applicable.
Prevention Response Storage Disposal Hazard(s) not otherwise classified (HNOC)	protection. Wear protective gloves. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several mir Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poi center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Store away from incompatible materials. Dispose of contents/container in accordance with local/regional/national/international regul None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	50 - < 60
Sodium (C14-16) olefin sulfonat	te	68439-57-6	30 - < 40
Sodium Hydroxide		1310-73-2	0.2 - 0.4
Other components below report	able levels		1 - < 3
4. First-aid measures			
nhalation	If breathing is difficult, remove to fresh air and Call a physician if symptoms develop or persis		nfortable for breathin
Skin contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medi advice/attention. Wash contaminated clothing before reuse.		on occurs: Get medic
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.		
ngestion	Rinse mouth. If ingestion of a large amount do	oes occur, call a poison contro	ol center immediately
Nost important symptoms/effects, acute and lelayed	Severe eye irritation. Symptoms may include vision. Permanent eye damage including blind and pain.		
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).	
Insuitable extinguishing nedia	Do not use water jet as an extinguisher, as thi	is will spread the fire.	
Specific hazards arising from he chemical	During fire, gases hazardous to health may be	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	otective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do s	so without risk.	
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 meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peo appropriate protective equipment and clothing or spilled material unless wearing appropriate Local authorities should be advised if significa	during clean-up. Do not touc protective clothing. Ensure a	h damaged containe dequate ventilation.
lethods and materials for	Prevent product from entering drains.		
containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Cover with plastic sheet to prevent s and place into containers. Following product r	preading. Absorb in vermicul	ite, dry sand or earth
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean sur	face thoroughly to
	Never return spills to original containers for re	-use.	
Environmental precautions	Avoid release to the environment. Inform appr environmental releases. Prevent further leaka drains, water courses or onto the ground.	ropriate managerial or superv	
7. Handling and storage			
Precautions for safe handling	Provide adequate ventilation. Do not get this r		

Precautions for safe handlingProvide adequate ventilation. Do not get this material in contact with eyes. Avoid contact with eyes,
skin, and clothing. Wear appropriate personal protective equipment. Avoid release to the
environment. Observe good industrial hygiene practices. Use care in handling/storage.Conditions for safe storage,
including any incompatibilitiesStore in original tightly closed container.

8. Exposure controls/personal protection

Biological limit values Appropriate engineering controls	No biological exposure limits noted for the ingredient(s). 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
Individual protection measures	wash facilities and emergency shower must be available when handling this product.
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant 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

5. Filysical and chemical p	noperties
Appearance	Clear.
Physical state	Liquid.
Form	Not available.
Color	Light yellow.
Odor	Characteristic.
Odor threshold	Not available.
рН	11 - 13 (10% in water)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 212 °F (> 100 °C)
Flash point	> 392.0 °F (> 200.0 °C)
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	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Soluble
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 500 cP @ 25C
Other information	
Density	8.89 lb/gal
Percent volatile	59.71 % estimated

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	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results	
BIO-TERGE AS-40 HASB			
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Oral			
LD50	Rat	> 2000 mg/kg	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitization			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitizati	on.	
Germ cell mutagenicity	No data available to indicate product or any compone mutagenic or genotoxic.	ents present at greater than 0.1% are	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Not listed.			
	d Substances (29 CFR 1910.1001-1052)		
Not regulated.	gram (NTP) Report on Carcinogens		
Not listed.	gram (NTP) Report on Carcinogens		
Reproductive toxicity	This product is not expected to cause reproductive or	r developmental effects.	
Specific target organ toxicity - single exposure	Not applicable.		
Specific target organ toxicity - repeated exposure	Not applicable.		
Aspiration hazard	Not likely, due to the form of the product.		
12. Ecological information			
Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long	lasting effects.	

Product		Species	Test Results	
BIO-TERGE AS-40 HASB				
Aquatic				
Acute				
Algae	EC50	Algae	42.3 mg/l, 72 hours	
Crustacea	EC50	Daphnia	4.48 mg/l, 48 hours	
Fish	LC50	Fish	2.6 mg/l, 96 hours	
ersistence and degradability	Readily bi	Readily biodegradable.		
ioaccumulative potential	No data available.			
lobility in soil	No data available.			
ther 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.		
2 Dispessel consideratio				

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.

IATA

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.

Yes
Skin corrosion or irritation Serious eye damage or eye irritation

SARA 313 (TRI reporting) Not regulated.

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Other federal regulations		
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
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	10-19-2017	
Revision date	12-16-2019	
Version #	02	
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 Regulatory Information: United States HazReg Data: International Inventories GHS: Classification	