

SAFETY DATA SHEET

1. Identification

Product identifier	SULFONIC 100		
Other means of identification			
Product code	1706		
Recommended use	Surfactant		
Recommended restrictions	For industrial use only.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Stepan Company 1101 Skokie Blvd. Northbrook, IL 60062 USA		
Telephone	General	1-847-446-7500	
E-mail	Not available.		
Emergency phone number	Medical Chemtrec Chemtrec Int'l	1-800-228-5635 1-800-424-9300 +1 703-527-388	7
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Skin corrosion/irritation		Category 1
	Serious eye damage/eye irri	tation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute Cather		Category 2
	Hazardous to the aquatic en long-term hazard	vironment,	Category 2
OSHA defined hazards	Not classified.		
Label elements			



Signal word	Danger		
Hazard statement	Harmful if swallowed. Causes severe skin burns and eye damage. Toxic to aquatic life. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.		
Precautionary statement	t de la constant de l		
Prevention	Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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). Wash contaminated clothing 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 classified (HNOC)	None known.		

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Alkylbenzenesulfonic acid (C11 Br. (Alternate CAS 68411-32-5)	,	68608-88-8	> 95
Alkylbenzene (c10-c16)		68648-87-3	< 2.5
Sulfuric acid 7664-93-		7664-93-9	< 2
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s 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.		
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. Call a physician or poison control center immediately.		
Ingestion	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 delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may 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	Dry chemical, foam, carbon dioxide, water fog].	
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn 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 cons	sider the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions,	Keep unnecessary personnel away. Keep peo	ople away from and upwind of	spill/leak. Keep out of

Personal precautions, Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of protective equipment and 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 emergency procedures protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. Prevent entry into waterways, sewer, basements or Methods and materials for confined areas. containment and cleaning up 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. 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.

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.

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

Store locked up. Store in original tightly closed container.

Conditions for safe storage, including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m3	
US. ACGIH Threshold Lim	nit Values		
Components	Туре	Value	Form
Sulfuric acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	TWA	1 mg/m3	
ological limit values	No biological exposure limits noted t	for the ingredient(s).	
propriate engineering ntrols	Good general ventilation (typically 1 should be matched to conditions. If a or other engineering controls to main	applicable, use process enclosu	res, local exhaust ventilatio
	exposure limits have not been estab wash facilities and emergency show	lished, maintain airborne levels	to an acceptable level. Eye
lividual protection measure		lished, maintain airborne levels er must be available when hand	to an acceptable level. Eye
lividual protection measure Eye/face protection	wash facilities and emergency show	lished, maintain airborne levels er must be available when hand nent	to an acceptable level. Eye lling this product.
-	wash facilities and emergency show es, such as personal protective equipr	lished, maintain airborne levels er must be available when hand nent	to an acceptable level. Eye lling this product.
Eye/face protection	wash facilities and emergency show es, such as personal protective equipr	lished, maintain airborne levels er must be available when hand nent Is (or goggles) and a face shield	to an acceptable level. Eye lling this product.
Eye/face protection Skin protection	wash facilities and emergency show es, such as personal protective equipr Wear safety glasses with side shield	lished, maintain airborne levels er must be available when hand nent Is (or goggles) and a face shield t gloves.	to an acceptable level. Eye lling this product. I.
Eye/face protection Skin protection Hand protection	wash facilities and emergency show es, such as personal protective equipr Wear safety glasses with side shield Wear appropriate chemical resistant	lished, maintain airborne levels er must be available when hand nent Is (or goggles) and a face shield gloves.	to an acceptable level. Eye lling this product. I.
Eye/face protection Skin protection Hand protection Other	wash facilities and emergency show es, such as personal protective equipr Wear safety glasses with side shield Wear appropriate chemical resistant Wear appropriate chemical resistant	lished, maintain airborne levels er must be available when hand nent Is (or goggles) and a face shield gloves. It clothing. Wear protective glove ar suitable respiratory equipment	to an acceptable level. Eye lling this product. I.
Eye/face protection Skin protection Hand protection Other Respiratory protection	wash facilities and emergency show es, such as personal protective equipr Wear safety glasses with side shield Wear appropriate chemical resistant Wear appropriate chemical resistant In case of insufficient ventilation, we	lished, maintain airborne levels er must be available when hand nent Is (or goggles) and a face shield c gloves. c clothing. Wear protective glove ar suitable respiratory equipment c clothing, when necessary. oke. Always observe good perso ial and before eating, drinking, a	to an acceptable level. Iling this product. I. es. nt. onal hygiene measures, and/or smoking. Routine

Appearance Clear to slightly hazy. Liquid. **Physical state** Form Liquid. Viscous. Color Dark brown. Not available. Odor Not available. **Odor threshold** < 1 (as is) pН Melting point/freezing point 48 °F (8.89 °C) Initial boiling point and boiling > 212 °F (> 100 °C) range

Flash point	> 201.0 °F (> 93.9 °C) Pensky-Martens Closed Cup		
Evaporation rate	Estimated slower than ethyl ether		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or explosive limits			
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	Not determined or unknown		
Vapor density	Estimated heavier than air		
Relative density	Not available.		
Solubility(ies)			
Solubility (water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	11500 cP @ 25C		
Other information			
Density	8.56 lbs/gal @ 38C		
Pour point	54 °F (12.22 °C)		
voc	0 %		

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	This product may react with reducing agents. Incompatible with bases.
Hazardous decomposition products	No hazardous decomposition products are known.

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. May be 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	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Harmful if swallowed. May be harmful in contact with skin.		
Product	Species	Test Results	
SULFONIC 100			
Acute			
Dermal			
LD50	Rabbit	> 4000 mg/kg	
Oral			
LD50	Rat	520 - 2320 mg/kg	
Skin corrosion/irritation	Causes severe skin burns and eye damage.		
Serious eye damage/eye irritation	Causes serious eye damage.		

Respiratory or skin sensitization	n		
Respiratory sensitization	Not a respiratory sensitizer.		
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	The International Agency for Research on Cancer (IARC) has concluded that occupational exposure to strong-inorganic acid mists containing sulfuric acid is carcinogenic to humans.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)		
Not listed.			
US. National Toxicology Pro	ogram (NTP) Report on Carcinogens		
Not listed.			
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.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information	1		

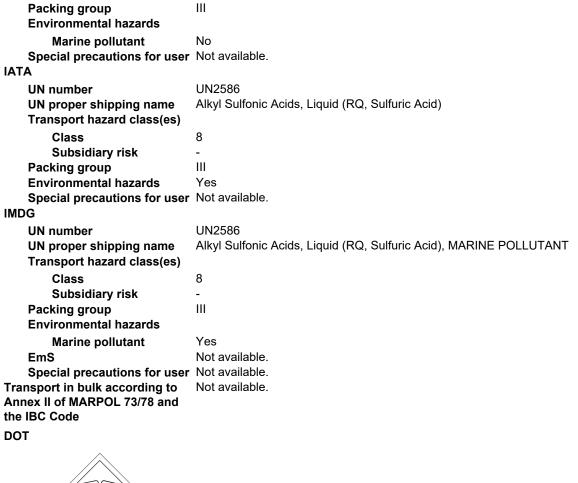
12. Ecological	information	
Ecotoxicity		Т

Ecotoxicity	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.				
Product		Species	Test Results		
SULFONIC 100					
Aquatic					
Acute					
Algae	EC50	Algae	5 mg/l, 72 hours		
Crustacea	EC50	Daphnia	3.5 mg/l, 48 hours		
Fish	LC50	Fish	3.5 mg/l, 96 hours		
Persistence and degradability	Expected to b	Expected to be inherently biodegradable.			
Bioaccumulative potential	No data available.				
Partition coefficient n-octa Sulfuric acid	nol / water (log	Kow) -2.2			
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 consideratio	ons				

Disposal instructions Hazardous waste code	Dispose of contents/container in accordance with local/regional/national/international regulations. 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 UN proper shipping name Transport hazard class(es)	UN2586 Alkyl Sulfonic Acids, Liquid (Sulfuric Acid RQ = 117647 LBS)
Class Subsidiary risk	8 -





IATA; IMDG



Marine pollutant



Or Hermit Regulations Standard., 29 CFR 1910.1200. Toxic Substances Control Act (TSCA) TSCA Soction 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. Suffrict acid (CAS 7664-93-9) Listed. SARA 304 Emergency release notification Suffrict acid (CAS 7664-93-9) Not listed. Solution acid (CAS 7664-93-9) Not listed. Sarban Andread Statutores (29 CFR 1910.1001-1053) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance: Chemical name CAS number Reportable Threshold Iplanning quantity, (pounds) Iplanning quantity, lowor value (pounds) Suffrict acid 7664-93-9 Suffrict acid 7664-93-9 Suffrict acid 7664-93-9 Classified hazard Acute toxicity (any route of exposure) categories Skin corrosion or irritation Serious eye damage or eye irritation Serious eye damage or eye irritation SARA 313 (TRI reporting) Not regulated. Not regulated. Solution (12 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number Suffuric acid (CAS 7664-93-9) 6	JS federal regulations	This produc	t is a "Hazardou	is Chemical" as defined	hy the OSHA Hazard (Communication
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WARNING: This product can expose you to chemicals including Strong inorganic mists containing sulfuric acid,		i his product ca	n expose you to	cnemicals including St	rong inorganic mists col	ntaining sulturic acid.

This product can expose you to chemicals including Strong inorganic mists containing sulfuric acid, WARNING: which is known to the State of California to cause cancer, and Sulfur dioxide, which is 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)

California Proposition 65 - CRT: Listed date/Developmental toxin

Sulfur Dioxide (CAS 7446-09-5)

Listed: July 29, 2011

Listed: January 1, 1988

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AIIC)	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

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	09-10-2014
Revision date	11-23-2022
Version #	07
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: Ingredients