

**SAFETY DATA SHEET**
**1. Identification of the substance/mixture and of the company/undertaking**
**1.1 Product identifier**

 Trade name: **Surfonate SHO-40**
**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Uses of the Substance/Mixture: Surfactant for various applications. For further information refer to the product technical datasheet. Uses other than those identified are not recommended.

**1.3 Details of the supplier of the safety data sheet**

 Company: General Surfactants, Inc.  
 30 Industry Avenue  
 Joliet, IL 60435

Prepared by: SDS Coordinator

Date prepared: 2/7/2020

Supersedes: New

Revision:

**1.4 Emergency telephone**

Emergency telephone number: 815-727-4791

**2. Hazards identification**
**2.1 Emergency overview**

Appearance: Clear to slightly hazy, amber liquid

Precautionary statements: Handle in accordance with good industrial hygiene and safety practice

**GHS classification**

Not classified

**2.2 GHS label elements, including precautionary statements**

Hazard pictograms/symbols Not classified

Signal Word: Not classified

Hazard Statements: Not classified

Precautionary Statements:

Prevention P264: Wash affected areas thoroughly after handling

Response P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage P404: Store in a closed container

Disposal P501: Dispose of contents and container in accordance with local, regional and/or national regulations

**2.3 Other hazards**

No information available

**3. Composition/information on ingredients**
**3.1 Information on components and impurities**

Chemical name	CAS number(s)	GHS Classification	Concentration, %
Potassium cocoate	61789-30-8	Not classified	>38-<44
Potassium hempseedate	68424-21-5	Not classified	>2-<4
Potassium olivate	68154-77-8	Not classified	>2-<4
Potassium sheaate	68424-21-5	Not classified	>2-<4
Glycerin	56-81-5	Not classified	>2-<4
Water	7732-18-5	Not classified	>51-<58

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#### 4. First aid measures

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##### 4.1 Description of first-aid measures

- General advice: Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.
- Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.
- Skin contact: Wash affected areas with plenty of water. Brief contact is essentially nonirritating to skin. Seek medical attention if irritation develops or persists.
- Ingestion: Rinse mouth with water. Swallowing small amounts incidentally as a result of normal handling operations is not likely to cause injury. Based on physical properties, this material is not likely to be an aspiration hazard. Seek medical attention if you feel unwell.
- If inhaled: Remove from area to fresh air. Exposure to vapor is minimal due to low volatility. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

##### 4.2 Most important symptoms and effects, both acute and delayed

- Risks: The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

##### 4.3 Indication of any immediate medical attention and special treatment needed

- Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

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#### 5. Firefighting measures

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Flash Point and Method: None

##### 5.1 Extinguishing media

- Suitable extinguishing media: The product is not flammable.  
Use media suitable for the material that is burning.
- Unsuitable extinguishing media: No data available

##### 5.2 Special hazards arising from the substance or mixture

- Special hazards during fire fighting: Container may rupture on heating.
- On combustion or on thermal decomposition: Decomposition products may include: oxides of carbon

##### 5.3 Advice for firefighters

- Special protective equipment for firefighters: As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.
- Specific firefighting methods: No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking

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#### 6. Accidental release measures

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##### 6.1 Personal precautions, protective equipment and emergency procedures

Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

##### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system

##### 6.3 Methods and material for containment and cleaning up

Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. To avoid gelling and foaming problems, do not use water to flush to industrial sewer. Keep in suitable, properly labeled, closed containers for disposal.

Decontamination/  
cleaning: Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly.  
Recover the cleaning water for subsequent disposal.

Disposal: Dispose of in accordance with local regulations.

Additional advice: Spill area may be slippery.

##### 6.4 Reference to other sections

No information available

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#### 7. Handling and storage

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##### 7.1 Precautions for safe handling

Technical measures: Does not require any specific or particular measures

Advice on safe handling and usage: Handle in accordance with good industrial hygiene and safety practice. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue.

##### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures for storage: Does not require any specific or particular measures

##### Storage conditions

Recommended: Keep container tightly closed. Opened containers must be carefully resealed and kept upright to prevent leakage.

Incompatible products: No information available

7.3 **Specific end use(s)**  
No information available

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**8. Exposure controls/personal protection**

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Introductory remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

**8.1 Control parameters**

Components with workplace control parameters

Components	Value	Control parameters	Basis
Contains no substances with occupational exposure limit values			

**8.2 Exposure controls**

**Control measures**

Engineering measures: Avoid splashes. Apply technical measures to comply with any occupational exposure limits when applicable.

**Personal protective equipment**

Respiratory protection: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand protection: Wear chemical resistant gloves

Eye protection: Wear eye protection

Skin and body protection: Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

Hygiene measures: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures: Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.

The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

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**9. Physical and chemical properties**

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Physical and chemical properties listed represent typical properties and should not be considered product specifications. Refer to product Certificate of Analysis for Product Specifications or contact General Surfactants for additional information.

**9.1 Information on basic physical and chemical properties**

Appearance: Clear amber liquid  
Odor: Mild  
Odor Threshold: No data available  
pH: 9-11 (10% aqueous solution)  
Freezing point: No information available  
Melting point/range: No information available  
Boiling point/boiling range: No information available  
Flash point: Does not flash  
Evaporation rate: No information available  
Flammability (solid, gas): Not applicable  
Flammability/Explosive limit: No information available  
Auto-ignition temperature: No information available  
Vapor pressure: No information available  
Vapor density: No information available  
Density: 1.04 g/ml, 8.7 lbs/gal (25°C)  
Solubility: Water solubility: soluble  
Solubility in other solvents: No information available  
Partition coefficient: n-octanol/water: No information available  
Thermal decomposition: No information available  
Viscosity: Low viscosity  
Explosive properties: No information available  
Oxidizing properties: No information available

**9.2 Other information**

No information available

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**10. Stability and reactivity**

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**10.1 Reactivity**

Stable and non-reactive under normal conditions of use, storage and transport

**10.2 Chemical stability**

Stable under normal conditions

**10.3 Possibility of hazardous reactions**

No information available

**10.4 Conditions to avoid**

No information available

**10.5 Incompatible materials**

No information available

**10.6 Hazardous decomposition products**On combustion or on thermal decomposition: oxides of carbon

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**11. Toxicological information**

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## Product Summary:

Not classified as hazardous material. Health injuries are not known or expected under normal handling or use. Prolonged or repeated exposure may result in irritation or may aggravate existing conditions.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

## 11.1 Information on toxicological effects

**Acute toxicity**

Acute oral: No information available

Acute dermal: No information available

Acute inhalation: No information available

Acute toxicity (other): No information available

**Skin corrosion/irritation**

Skin irritation: Non-irritating

**Serious eye damage/eye irritation**

Eye irritation: Direct exposure may result in irritation

**Respiratory or skin sensitization**

Sensitization: Not classified as sensitizing by skin contact

**Mutagenicity**

Genotoxicity in vitro: No information available

Genotoxicity in vivo: No information available

**Carcinogenicity**

Carcinogenicity: No information available

This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH

**Toxicity for reproduction and development**

Toxicity to reproduction/fertility: No information available

Developmental toxicity/teratogenicity: No information available

**Specific Target Organ Toxicity (STOT)**

STOT-single exposure: No information available

STOT-repeated exposure: No information available

**Aspiration toxicity**

Aspiration toxicity: Based on physical properties, not likely to be an aspiration hazard

**Other Hazards**

<u>Organ</u>	<u>Description</u>
Eyes	Direct exposure may result in irritation
Skin	Brief contact is essentially nonirritating to skin. Seek medical attention if irritation develops or persists.
Ingestion	Swallowing small amounts incidentally as a result of normal handling operations is not likely to cause injury
Inhalation	Exposure to vapor is minimal due to low volatility
Sensitization	No known effects

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**12. Ecological information**

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**12.1 Toxicity**

Aquatic toxicity: No information available

**12.2 Persistence and degradability**

Biodegradation: No information available

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water: No bioaccumulation is to be expected (log Pow&lt;=4)

Bioconcentration factor (BCF): No information available

**12.4 Mobility in soil**

Known distribution to environmental compartments: No information available

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Other adverse effects**

Environmental assessment: Not expected to be potentially or harmful or toxic, persistent or bioaccumulative

**Surfonate SHO-40**

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**13. Disposal considerations**

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**13.1 Waste treatment methods**

RCRA Waste Code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company

Product disposal: Observe all applicable federal, state, and local regulations.

Packaging: Remove all residue when emptying.

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**14. Transportation information**

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DOT Hazard Classification: Not regulated

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**15. Regulatory information**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Notification status:

Country	Regulatory list	Notification
USA	TSCA	Listed or in compliance with the requirements the inventory
Canada	NDSL	Listed or in compliance with the requirements the inventory
EU	EINECS	Listed or in compliance with the requirements the inventory; NLP, 500-152-2
Australia	AICS	Listed or in compliance with the requirements the inventory
China	IECSC	Listed or in compliance with the requirements the inventory
Korea	ECL/AREC	Listed or in compliance with the requirements the inventory; KE-01125

OSHA Hazard Communication Standard (29 CFR 1910.1200): Hazardous

**CERCLA (RQ)**

Ingredient(s)	CAS#	Weight	CERCLA RQ	Section 302 TPQ
Not listed				

**SARA/EPCRA Extremely Hazardous Substances (302/304)**

Ingredient(s)	CAS#	Weight	RQ	TPQ
Not listed				

**SARA Hazard Categories (311/312)**

Fire	Reactive	Acute health hazard	Chronic health hazard
No	No	Yes	No

**SARA Toxic Substances (313)** The following components are subject to SARA Section 313 reporting requirements

Ingredient(s)	CAS#	Weight
Not listed		

**CAA (311) Volatile Organic compounds**

Ingredient(s)	CAS#	Weight
Not listed		

**State regulations**

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Carcinogens & Reproductive Toxicity (CRT): Not listed

**15.2 Other regulations****WHMIS Classification**

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR

Classification: Not controlled

**Harmonized Tariff Schedule Codes**

US Census Bureau Schedule B (2014): 3402.11.0000

Departmental Consolidation of the *Customs Tariff* (2014) (Canada): 3402.11.9090

**Chemical Weapons Convention List Schedules I, II & III Chemicals**

Not listed

**Montreal Protocol (Annexes A, B, C, E)**

Not listed

**Stockholm Convention on Persistent Organic Pollutants**

Not listed

**Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed

**UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed

**16. Other information**

NFPA-Classification		HMIS-Classification	
Health	1 slight	Health	1 slight
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	B
		B=Safety glasses, Gloves	

Key or legend to abbreviations and acronyms used in the safety data sheet	
ACGIH: American Conference of Governmental Industrial Hygienists	NIOSH: National Institute for Occupational Safety and Health
HMIS: Hazardous Materials Identification System	NTP: National Toxicology Program
IARC: International Agency for Research on Cancer	OSHA: Occupational Safety and Health Administration
NFPA: National Fire Protection Association	

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