1. Identification

Product identifier

ACCOSOFT 550-90% HHV

Other means of identification

Product code

3430

Recommended use

Surfactant

Recommended restrictions

For industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Stepan Company

Address

22 West Frontage Road

Northfield, IL 60093

USA

Telephone

General 1-847-446-7500

Emergency phone number

Medical 1-800-228-5635

Chemtrec 1-800-424-9300

Chemtrec Int'l +1 703-527-3887

E-mail

Not available.

2. Hazard(s) identification

Physical hazards

Flammable liquids Category 3

Health hazards

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Environmental hazards

Hazardous to the aquatic environment, acute hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 2

OSHA defined hazards

Not classified.

Label elements

Signal word

Danger

Hazard statement

Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention


Response

Collect spillage. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

None.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
</tr>
</thead>
<tbody>
<tr>
<td>_Methyl tallow diethylenetriamine condensate, polyethoxylated, methyl sulfate</td>
<td></td>
</tr>
<tr>
<td>CAS number</td>
<td>%</td>
</tr>
<tr>
<td>68410-69-5</td>
<td>80 - &lt; 90</td>
</tr>
</tbody>
</table>

| _Amides, tallow, N,N'-[(2-hydroxyethyl)imino]di-2,1-ethanediy]bis-, ethoxylated |                                                                                           |
| CAS number                                                                    | %                                                                                         |
| 68439-67-8                                                                   | 10 - < 20                                                                                 |

Isopropanol                                                                   | 67-63-0                                                                                   |
| %                                                                           | 5 - < 10                                                                                  |

4. First-aid measures

**Inhalation**

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

**Skin contact**

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash 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. Get medical attention immediately.

**Ingestion**

Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

**Indication of immediate medical attention and special treatment 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. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable extinguishing media**

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

**Specific hazards arising from the chemical**

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. 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**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods**

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

**General fire hazards**

Flammable liquid and vapor.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spills cannot be contained.
Methods and materials for containment and cleaning up
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling
Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities
Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>PEL</td>
<td></td>
<td>980 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td></td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>STEL</td>
<td></td>
<td>1225 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>980 mg/m3</td>
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</table>

<table>
<thead>
<tr>
<th>Biological limit values</th>
<th>ACGIH Biological Exposure Indices</th>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol (CAS 67-63-0)</td>
<td>40 mg/l</td>
<td>Acetone</td>
<td>Urine</td>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.
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 safety glasses with side shields (or goggles).

Skin protection
Wear appropriate chemical resistant gloves.

Hand protection
Wear appropriate chemical resistant clothing.

Other
Wear appropriate thermal protective clothing, when necessary.

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

Thermal hazards

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
Semi-solid/paste @ 77°F, Clear liquid @ 120°F

Physical state
Liquid.

Form
Liquid.

Color
Off-white to yellow @ 77°F, amber @ 120°F

Odor
Not available.

Odor threshold
Not available.

pH
5 - 7 (10% in water/IPA)

Melting point/freezing point
Not available.

Initial boiling point and boiling range
180 °F (82.22 °C)

Flash point
76.0 °F (24.4 °C)

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
140 cP (@ MHT)

Other information

Density
8.10 lb/gal

Percent volatile
10 % w/w

Pour point
68 °F (20 °C)

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 heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials
Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

**Inhalation**  Prolonged inhalation may be harmful.

**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

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

**Acute toxicity**  Not available.

**Skin corrosion/irritation**  Causes skin irritation.

**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.

**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

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

**Persistence and degradability**  No data is available on the degradability of this product.

**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**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1993</td>
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<tr>
<td>UN proper shipping name</td>
<td>Flammable liquids, n.o.s. (Isopropanol)</td>
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<tr>
<td>Transport hazard class(es)</td>
<td>Class 3</td>
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<tr>
<td></td>
<td>Subsidiary risk: -</td>
</tr>
<tr>
<td></td>
<td>Packing group: III</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not available.</td>
</tr>
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</table>

**IATA**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
<tr>
<td>UN number</td>
<td>UN1993</td>
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<tr>
<td>UN proper shipping name</td>
<td>Flammable liquids, n.o.s. (Isopropanol)</td>
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<tr>
<td>Transport hazard class(es)</td>
<td>Class 3</td>
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<tr>
<td></td>
<td>Subsidiary risk: -</td>
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<tr>
<td></td>
<td>Packing group: III</td>
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<tr>
<td>Environmental hazards</td>
<td>Yes (Quaternary Ammonium Compounds)</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1993</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>FLAMMABLE LIQUIDS, N.O.S. (Isopropanol), MARINE POLLUTANT (Quaternary Ammonium Compounds)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>Class 3</td>
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<tr>
<td></td>
<td>Subsidiary risk: -</td>
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<tr>
<td></td>
<td>Packing group: III</td>
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<tr>
<td>Environmental hazards</td>
<td>Yes</td>
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<tr>
<td>Marine pollutant</td>
<td>Not available.</td>
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<td>EmS</td>
<td>Not available.</td>
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<tr>
<td>Special precautions for user</td>
<td>Not available.</td>
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<tr>
<td>Quaternary Ammonium Compounds</td>
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<tr>
<td>Transport in bulk according to</td>
<td>Not available.</td>
</tr>
<tr>
<td>Annex II of MARPOL 73/78 and the IBC Code</td>
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</tr>
</tbody>
</table>

**DOT**

[Image of DOT flammable liquid symbol]

**IATA; IMDG**

[Image of IATA and IMDG flammable liquid symbols]
15. Regulatory information

**US federal regulations**

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

- **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.

  - 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**
        - Flammable (gases, aerosols, liquids, or solids)
        - 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**
  - Not regulated.

- **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
  - Not regulated.

- **Safe Drinking Water Act (SDWA)**
  - Not regulated.

- **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**
  - Isopropanol (CAS 67-63-0) Low priority

**US state regulations**

- **California Proposition 65**
  - **WARNING:** This product can expose you to chemicals including Ethylene oxide, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

- **California Proposition 65 - CRT: Listed date/Carcinogenic substance**
  - Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987

- **California Proposition 65 - CRT: Listed date/Developmental toxin**
  - Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009
  - Methanol (CAS 67-56-1) Listed: March 16, 2012

- **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
Isopropanol (CAS 67-63-0)

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory (NZIoC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Issue date</th>
<th>02-03-2015</th>
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</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>06-14-2018</td>
</tr>
<tr>
<td>Version #</td>
<td>03</td>
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</tbody>
</table>

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Revision information
Identification: Recommended restrictions
Hazard(s) identification: Disposal
Hazard(s) identification: Prevention
Hazard(s) identification: Response
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Ecological Information: Ecotoxicity
Transport Information: Material Transportation Information
Regulatory information: California Proposition 65
HazReg Data: International Inventories
GHS: Classification