1. Identification

1.1. Product identifier
Product Identity: SO3 SEALANT
Alternate Names: SO3 SEALANT

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: Thread Sealant
Application Method: See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Company Name: SAF-T-LOK International Corporation
300 EISENHOWER LANE NORTH
LOMBARD, IL 60148

Emergency:
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. (703) 527-3887
Customer Service: SAF-T-LOK International Corporation (630) 495-2001

2. Hazard(s) identification

2.1. Classification of the substance or mixture
Skin Irrit.;H315 Causes skin irritation. Category 2
Eye Irrit.;H319 Causes serious eye irritation. Category 2A
STOT SE;H335 May cause respiratory irritation. Category 3

2.2. Label elements

Warning
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

[Prevention]:
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P321 Specific treatment (see information on this label).
P332+313 If skin irritation occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P362 Take off contaminated clothing and wash before reuse.

[Storage]:
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>5 - 10</td>
<td>Skin Corr. 1B;H314</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0001336-21-6</td>
<td></td>
<td>Aquatic Acute 1;H400</td>
<td></td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

*The full texts of the phrases are shown in Section 16.

Section 4. First aid measures
4.1. Description of first aid measures

**General**
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation**
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes**
Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin**
Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion**
If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

**Overview**
No specific symptom data available. Treat symptomatically. See section 2 for further details.

**Inhalation**
May cause respiratory irritation.

**Eyes**
Causes serious eye irritation.

**Skin**
Causes skin irritation.

---

**Section 5. Fire-fighting measures**

5.1. Extinguishing media
Carbon Dioxide, Foam, Dry Chemicals.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Oxides of carbon, nitrogen & polymer hydrocarbons.

5.3. Advice for fire-fighters
As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Air mask and procedures for fighting chemical fires. Do not inhale gases.
Avoid breathing dust / fume / gas / mist / vapors / spray.

**ERG Guide No.** ---

---

**Section 6. Accidental release measures**
6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions
Do not allow spills to enter drains or waterways.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet.
Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
Scoop up into waste container or soak up with absorbent material. Store in a closed container until disposal.

---

Section 7. Handling and storage

7.1. Precautions for safe handling
Handle containers carefully to prevent damage and spillage.
Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and mist.. Wash hands thoroughly at mealtime and end of shift. Keep area ventilated – do not smoke.
See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities
Store in a cool location (60-80°F) in a well ventilated area away from sources of heat. Keep container tightly closed when not in use.
Incompatible materials: Acids can destabilize the product.
See section 2 for further details. - [Storage]:

7.3. Specific end use(s)
No data available.

---

Section 8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001336-21-6</td>
<td>Ammonium hydroxide</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Safety Data Sheet
SO3 SEALANT

SAF-T-LOK
International Corporation

Respiratory
If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes
Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin
Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Engineering Controls
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
White Liquid

Odor
Ammonia

Odor threshold
Not determined

pH
N/A

Melting point / freezing point
N/A

Initial boiling point and boiling range
212°F

Flash Point
ND

Evaporation rate (Ether = 1)
< 1.0

Flammability (solid, gas)
Not Applicable

Upper/lower flammability or explosive limits
Lower Explosive Limit: 16.0%
Upper Explosive Limit: 25.0%

Vapor pressure (Pa)
(mm Hg.): <17

Vapor Density
(Air = 1): >1

Specific Gravity
1.11

Solubility in Water
Soluble

Partition coefficient n-octanol/water (Log Kow)
Not Measured

Auto-ignition temperature
Not Measured

Decomposition temperature
Not Measured

Viscosity (cSt)
Not Measured

VOC Content
Not Measured

9.2. Other information
Section 10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
No data available.

10.5. Incompatible materials
Acids can destabilize the product.

10.6. Hazardous decomposition products
Oxides of carbon, nitrogen & polymer hydrocarbons.

Section 11. Toxicological information

Acute toxicity
Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide - (1336-21-6)</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Carcinogen Data

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001336-21-6</td>
<td>Ammonium hydroxide</td>
<td>OSHA</td>
<td>Regulated Carcinogen: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NTP</td>
<td>Known: No; Suspected: No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IARC</td>
<td>Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;</td>
</tr>
</tbody>
</table>

Classification

<table>
<thead>
<tr>
<th>Hazard Description</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
</tr>
</tbody>
</table>
### Safety Data Sheet
**SO3 SEALANT**

**SAF-T-LOK**

**International Corporation**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (dermal)</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>2 Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2 Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>3 May cause respiratory irritation.</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>--- Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>--- Not Applicable</td>
</tr>
</tbody>
</table>

### Section 12. Ecological information

#### 12.1. Toxicity
Toxic to aquatic life

**Aquatic Ecotoxicity**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide - (1336-21-6)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability
There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential
Not Measured

#### 12.4. Mobility in soil
No data available.

#### 12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects
No data available.

### Section 13. Disposal considerations
Safety Data Sheet  
SO3 SEALANT

International Corporation

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

<table>
<thead>
<tr>
<th>Section 14. Transport information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1. UN number</strong></td>
</tr>
<tr>
<td><strong>14.2. UN proper shipping name</strong></td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es)</strong></td>
</tr>
<tr>
<td><strong>14.4. Packing group</strong></td>
</tr>
<tr>
<td><strong>14.5. Environmental hazards</strong></td>
</tr>
<tr>
<td><strong>14.6. Special precautions for user</strong></td>
</tr>
<tr>
<td><strong>14.7. Transport hazard class(es)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Section 15. Regulatory information

Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

US EPA Tier II Hazards
| Fire: No |
| Sudden Release of Pressure: No |
| Reactive: No |
| Immediate (Acute): Yes |
| Delayed (Chronic): No |

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this
Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:
This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

The information on this material safety data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user. SAF-T-LOK International Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of SAF-T-LOK International Corporation products.