1. Product And Company Identification

GHS product identifier: Oxime Low Volatility Aluminum Aerosol
Other means of identification: Not available.

Relevant identified uses of the substance or mixture and uses advised against:
Silicone sealant

Supplier's details: Adaseal International Inc.
5468 Hwy 70 W
Waverly, TN. 37185
Phone: 931-296-2291
Toll Free: 800-521-2521
Fax: 931-296-5239
E-Mail: adaseal2@adaseal.com

Emergency telephone number: CHEMTREC, 24 hours/day, 7 days/week
U.S.: 1-800-424-9300
International: +1-703-527-3887

SDS Date of Preparation: 07/10/2018

2. Hazards Identification

GHS Classification:

<table>
<thead>
<tr>
<th>Physical:</th>
<th>Health:</th>
</tr>
</thead>
</table>
| Gases Under Pressure: Compressed Gas | Skin Sensitization Category 1
Specific Target Organ Toxicity
– Repeat Exposure Category 2 (oral) |

GHS Label Elements:

Warning!

<table>
<thead>
<tr>
<th>Statements of Hazard</th>
<th>Precautionary phrases</th>
</tr>
</thead>
</table>
| Contains gas under pressure; may explode if heated. May cause an allergic skin reaction May cause damage to blood through prolonged or repeated ingestion. | Prevention
Do not breathe vapors.
Contaminated work clothing must not be allowed out of the workplace.
Wash thoroughly after handling.
Wear protective gloves protection. |
| Precautionary phrases Response | Storage
Protect from sunlight. Store in a well-ventilated place. |
| IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Get medical attention if you feel unwell. | Disposal
Dispose of contents and container in accordance with local and national regulations. |
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-Difluoroethane</td>
<td>75-37-6</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>2-Butanone, O,O',O&quot;- (methylsilylidyne) trioxime</td>
<td>22984-54-9</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>2-Butanone, O,O', O&quot;- (ethenylsilylidyne) trioxime</td>
<td>2224-33-1</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>N-beta-(aminoethyl)-gamma aminopropyltrimethoxysilane</td>
<td>1760-24-3</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Methyltri (ethylmethylketoxime) silane isomers and oligomers</td>
<td>Not available</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

**Inhalation:** If symptoms of exposure develop, remove to fresh air. Seek medical attention if breathing problem or irritation persists.

**Skin Contact:** Wash exposed skin with soap and water for several minutes. If skin irritation or rash develops, seek medical attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

**Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Most Important Symptoms:** May cause an allergic skin reaction in some individuals. Vapors may cause mild respiratory irritation. Repeated or prolonged ingestion may cause damage to the blood, cardiovascular, and hematological system.

**Indication of Immediate Medical Attention/Special Treatment:** None known.

5. Firefighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use extinguishing media suitable for surrounding fire.

**Specific Hazards Arising from the Chemical:** Not classified as flammable but contains a flammable propellant. Contents under pressure. Burning may produce very toxic, flammable formaldehyde; silicon oxides; carbon oxides. Exposure of containers to heat and flames can cause them to rupture often with violent force.

**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting cans.

6. Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Ventilate the area. Wear appropriate protective clothing and equipment.

**Methods and Materials for Containment and Clean-Up:** Place leaking can in a pail in a well-ventilated area until pressure has dissipated. Collect residual liquid using inert absorbents and place into a suitable container for disposal.

**Environmental Precautions:** Report release as required by local and national regulations.
7. Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes and skin. Avoid breathing vapors or gas. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Contents under pressure, do not puncture or incinerate containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Will evolve methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Store in a cool, dry, well-ventilated area, away from incompatible materials. Do not store in direct sunlight or above 120°F. **U.F.C. (NFPA 30B) Level 1 Aerosol.**

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8. Exposure Controls / Personal Protection

**Exposure Guidelines:**

<table>
<thead>
<tr>
<th>CHEMICAL</th>
<th>EXPOSURE LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-Difluoroethane</td>
<td>1000 ppm TWA AIHA WEELs</td>
</tr>
<tr>
<td>2-Butanone, O,O', O''- (ethenylsilylididyne) trioxime</td>
<td>None established</td>
</tr>
<tr>
<td>2-Butanone, O,O', O''- (methylsilylididyne) trioxime</td>
<td>None established</td>
</tr>
<tr>
<td>N-beta-(aminoethyl)-gamma aminopropyltrimethoxysilane</td>
<td>None established</td>
</tr>
<tr>
<td>Methyltri (ethylnethylketoxime) silane isomers and oligomers</td>
<td>None established</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.

**Personal Protective Equipment**

**Respiratory Protection:** None under normal use conditions. For operations where the exposure limits may be exceeded, a NIOSH approved supplied air respirators recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134; all applicable laws and regulations; and good industrial hygiene practice.

**Gloves:** Wear impervious gloves to avoid skin contact.

**Eye Protection:** Safety glasses are recommended if eye contact is possible.

**Other Protective Equipment/Clothing:** Wear personal protection as needed to avoid skin contact.

9. Physical and Chemical Properties

**Appearance and Odor:** Gray viscous paste with slight odor.

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Odor Threshold</th>
<th>Specific Gravity</th>
<th>Vapor Pressure</th>
<th>Vapor Density</th>
<th>Percent Volatile</th>
<th>Evaporation Rate</th>
<th>VOC Content</th>
<th>Autoignition Temp</th>
<th>Flame extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thick liquid under pressure</td>
<td>Not determined</td>
<td>1.04</td>
<td>Not determined</td>
<td>(Air = 1)</td>
<td>Not determined</td>
<td>(n-butyl acetate = 1.0): Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH: Not determined</td>
<td>Specific Gravity: 1.04 (Liquid component)</td>
<td>Vapor Pressure: Not determined</td>
<td>Vapor Density: (Air = 1) Not determined</td>
<td>Percent Volatile: Not determined</td>
<td>Evaporation Rate: (n-butyl acetate = 1.0): Not determined</td>
<td>VOC Content: Not determined</td>
<td>Autoignition Temp: Not determined</td>
<td>Flame extension: Not determined</td>
<td></td>
</tr>
<tr>
<td>Initial Boiling Point/Range: Not determined</td>
<td>Vapor Pressure: Not determined</td>
<td>Vapor Density: (Air = 1) Not determined</td>
<td>Percent Volatile: Not determined</td>
<td>Evaporation Rate: (n-butyl acetate = 1.0): Not determined</td>
<td>VOC Content: Not determined</td>
<td>Autoignition Temp: Not determined</td>
<td>Flame extension: Not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity: Not normally reactive
Chemical Stability: Stable under normal storage and handling conditions
Possibility of Hazardous Reactions: Forms toxic chemicals on contact with strong oxidizing agents, strong bases, and strong acids. Will evolve methyl ethyl ketoxime (MEKO) when exposed to water or humid air.
Conditions to Avoid: Keep away from excessive heat, and open flames. Containers may rupture at temperatures > 120°F (48.8°C).
Incompatible Materials: Strong oxidizing agents, strong bases, and strong acids.
Hazardous Decomposition Products: Burning may produce formaldehyde; silicon oxides; carbon oxides.

11. Toxicological Information

Potential Health Effects:

Acute Hazards:
Inhalation: Vapors can irritate the throat and respiratory tract.

Skin Contact: Contains 2-Butanone, O,O', O"-(ethenylsilylidyne) trioxime and 2-Butanone, O,O',O"-(methylsilylidyne) trioxime which may cause an allergic skin reaction.

Eye Contact: May cause mild irritation.

Ingestion: Swallowing may cause gastrointestinal disturbances.

Chronic Effects: Contains 2-Butanone, O,O', O"-(ethenylsilylidyne) trioxime, 2-Butanone, O,O',O"-(methylsilylidyne) trioxime, and distillates (petroleum), straight-run middle which may cause damage to the blood, cardiovascular, and hematological system through prolonged or repeated exposure.

Carcinogenicity Listing: None of the components listed is a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA

Numerical Measures of Toxicity:

Product ATE:
LD50 Oral > 2,000 mg/kg
LD50 Dermal > 2,000 mg/kg
LC50 Inhalation >5 mg/L

1,1-Difluoroethane:
LC50 Inhalation Rat: 437,500 ppm/4h

2-Butanone, O,O', O"-(methylsilylidyne) trioxime:
LD50 Oral Rat 2,643 mg/kg
LD50 Dermal Rat > 2,000 mg/kg

2-Butanone, O,O', O"-(ethenylsilylidyne) trioxime:
LD50 Oral Rat > 2,000 mg/kg
LD50 Dermal Rat > 2,009 mg/kg

N-beta-(aminoethyl)-gamma aminopropyltrimethoxysilane:
LD50 Oral Rat 1,897 mg/kg
LD50 Dermal Rabbit > 2,000 mg/kg
LC50 Inhalation Rat: >1.49 - < 2.44 mg/L/4 hr.

Methyltri (ethylmethylketoxime) silane isomers and oligomers: Not determined
12. Ecological Information

Ecotoxicity:
1,1-Difluoroethane: LC50 Fish 719.61 mg/L/96hr (Calculated)
2-Butanone, O,O’,O”- (methylsilylidyne) trioxime:
   LC50 Oncorhynchus mykiss (rainbow trout) > 120 mg/L/96hr
   LC50 Daphnia magna (water flea) >120 mg/L/48hr
N-beta-(aminoethyl)-gamma aminopropyltrimethoxysilane:
   LC50 Brachydanio rerio (zebrafish) 597 mg/L/96hr
   LC50 Daphnia magna (water flea) 81 mg/L/48hr

Persistence and Degradability: No data available for product.

Bio accumulative Potential: No data available for product.

Mobility in Soil: No data available for product.

Other Adverse Effects: No data available

13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

14. Transport Information

DOT Hazardous Materials Description: UN1950, Aerosols, 2.2 LTD QTY

IMDG Dangerous Goods Description: UN1950, Aerosols 2.2 LTD QTY

15. Regulatory Information

United States:

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act
(TSCA) Chemical Substances Inventory.

CERCLA Section 103: This product has no RQ, however, oil spills must be reported to the National Response
Center. Many states have more stringent release reporting requirements. Report spills required under federal, state
and local regulations.

SARA Hazard Category (311/312): Classified under OSHA Hazcom 2012 GHS as per Section 2 of this SDS.

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements
under SARA Title III, Section 313 (40 CFR 372): None

California Proposition 65:
WARNING: This product can expose you to chemicals including Cobalt titanite green spinel, which is known to the
State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects
or other reproductive harm.
SAFETY DATA SHEET
Oxime Low Volatility Aluminum Aerosol

16. Other Information

REVISION DATE: 07/10/2018

REVISION SUMMARY: New SDS

DATE OF PREVIOUS REVISION: N/A

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH

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