Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product Name: ASA FLEX COLOURED SILICONE SILVER ASH
Pure substance/mixture: Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Sealant.
Uses advised against: No information available.

1.3. Details of the supplier of the safety data sheet

Company Name: Bostik New Zealand Limited
19 Eastern Hutt Road Wingate,
Lower Hutt, New Zealand
Tel: 04-567 5119
Fax: 04-567 5412

1.4. Emergency telephone number

Emergency Telephone: 24 Hr: 0800 243 622
+64 4 917 9888
Poison Centre: 0800 764 766

E-mail address: SDS.AP@Bostik.com

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Acute toxicity - Dermal</th>
<th>Category 4 (6.1D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4 (6.1D)</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1 (8.3A)</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2 (6.7B)</td>
</tr>
</tbody>
</table>

ERMA Group: HSR002679

2.2. Label Elements

Signal word: DANGER

Hazard statements:
- H317 - May cause an allergic skin reaction
- H351 - Suspected of causing cancer
- H312 - Harmful in contact with skin
- H332 - Harmful if inhaled
- H318 - Causes serious eye damage
Safety Data Sheet

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Revision Number 1

Precautionary Statements - Prevention
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
P271 - Use only outdoors or in a well-ventilated area
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves

Precautionary Statements - Response
P321 - Specific treatment (see supplemental first aid instructions on this label)

Inhalation
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P312 - Call a POISON CENTER or doctor if you feel unwell
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

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

Precautionary Statements - Storage
P405 - Store locked up

Precautionary Statements - Disposal
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other Hazards

• May be harmful if swallowed

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone, O.O',O''-(methylsilylidyne)trioxime</td>
<td>22984-54-9</td>
<td>5 - &lt;10</td>
</tr>
<tr>
<td>2-Butanone, oxime</td>
<td>96-29-7</td>
<td>1 - &lt;3</td>
</tr>
<tr>
<td>N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine</td>
<td>1760-24-3</td>
<td>1 - &lt;3</td>
</tr>
<tr>
<td>10,10'-Oxybisphenoxarsine</td>
<td>58-36-6</td>
<td>0.1 - &lt;1</td>
</tr>
</tbody>
</table>

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Inhalation
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Skin contact
Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. If skin irritation persists, call a physician.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If
symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion
Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider
Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms
None known.

4.3. Indication of any immediate medical attention and special treatment needed
Note to physicians
May cause sensitization of susceptible persons. Treat symptomatically.

4.4. Reference to Other Sections
Reference to other sections
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION. Section 11: TOXICOLOGY INFORMATION.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
No information available.

5.2. Special hazards arising from the substance or mixture
Specific hazards arising from the chemical
In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters
Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions
Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up
Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Avoid creating dust. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Take precautionary measures against static discharges.
6.4. Reference to other sections

Reference to other sections

7.1. Precautions for safe handling

Advice on safe handling
Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation.

7.2. Conditions for safe storage, including any incompatibilities

General hygiene considerations
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Storage Conditions

Incompatible materials
No information available

7.3. Specific end use(s)

Specific Use(s)
Sealant.

Other information
No information available.

7.4. References to Other Sections

Reference to other sections

Section 13: DISPOSAL CONSIDERATIONS. Section 10: STABILITY AND REACTIVITY.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>NIOSH IDLH</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,10’-Oxybisphenoxarsine 58-36-6</td>
<td>-</td>
<td>-</td>
<td>TWA: 0.5 mg/m³ As</td>
</tr>
</tbody>
</table>

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

OTHER INFORMATION No information available

8.2. Exposure controls

Engineering controls
Ensure adequate ventilation, especially in confined areas.

PPE - Personal Protection Equipment

Eye/face protection
Wear safety glasses with side shields (or goggles).

Skin and body protection
Wear suitable protective clothing. No special technical protective measures are
Hand protection
Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.

Respiratory protection
No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.

General hygiene considerations
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Thixotropic Paste</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Gray</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Softening Point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solvent content (%)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solid content (%)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>1 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC (volatile organic compound)</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity
None under normal use conditions.

10.2. Chemical stability

10.3. Possibility of hazardous reactions
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ASA FLEX COLOURED SILICONE SILVER ASH
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Revision Number 1
Supersedes Date: No information available

Possibility of hazardous reactions  None under normal processing.
Hazardous Polymerization  None under normal processing.

10.4. Conditions to avoid
Conditions to avoid  Protect from moisture. Product cures with moisture.

10.5. Incompatible materials
Incompatible materials  No information available.

10.6. Hazardous decomposition products
Hazardous decomposition products  None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION
11.1. Information on toxicological effects

Acute Toxicity
Product information  Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation  No data available.
Eye contact  No data available.
Skin contact  No data available.
Ingestion  No data available.

Numerical measures of toxicity

Unknown acute toxicity
79.4 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
86.4 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
99.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
99.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
98.4 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone, O,O',O''-(methylsilyldyne)trioxime 22984-54-9</td>
<td>LD50 = 2463 mg/Kg (Rat) (OECD 401)</td>
<td>LD50 &gt;2000 mg/Kg (Rat) (OECD guideline 402)</td>
<td>-</td>
</tr>
<tr>
<td>2-Butanone, oxime 96-29-7</td>
<td>930 mg/kg (Rat)</td>
<td>1000 - 1800 mg/kg (Rabbit) &gt; 4.83 mg/L (Rat) 4 h</td>
<td>-</td>
</tr>
<tr>
<td>N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine 1760-24-3</td>
<td>2295 mg/kg (Rat)</td>
<td>&gt;2000 mg/Kg (Rat)</td>
<td>LC50 4H (Aerosol)1.5 - 2.44 mg/L air</td>
</tr>
<tr>
<td>10,10'-Oxybisphenoxarsine 58-36-6</td>
<td>40 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation  No information available.
Serious eye damage/eye irritation  No information available.
Sensitization  No information available.
Germ Cell Mutagenicity  No information available.
Reproductive Toxicity  No information available.
STOT - single exposure  No information available.
STOT - repeated exposure  No information available.
Target Organ Effects  No information available.
Aspiration hazard  No information available.
Carcinogenicity  The following substance(s) are classified in Annex VI CLP (1272/2008) as carcinogenic.
Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Product information
None known.

Component Information
Data obtained on the component(s) include

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone, O,O',O''-(methylsilylidyne)trioxime 22984-54-9</td>
<td>EC50 (72h) = 94 mg/L (Pseudokirchneriella subcapitata) OECD 201</td>
<td>EC50 (96h) &gt;120 mg/L Fish (Oncorhynchus mykiss) Freshwater static (OECD guideline 203)</td>
<td>EC50 (48h) &gt; 120 mg/L (Daphnia magna) OECD 202</td>
</tr>
<tr>
<td>2-Butanone, oxime 96-29-7</td>
<td>EC50: =83mg/L (72h, Desmodesmus subspicatus)</td>
<td>LC50: =760mg/L (96h, Poecilia reticulata) LC50: 777 - 914mg/L (96h, Pimephales promelas) LC50: 320 - 1000mg/L (96h, Leuciscus idus)</td>
<td>EC50: =750mg/L (48h, Daphnia magna)</td>
</tr>
<tr>
<td>N-[3-(Trimethoxyxysilyl)propyl]-1,2-ethanediamine 1760-24-3</td>
<td>-</td>
<td>LC50 (96H) =597 mg/L Fish (Danio rerio) Semi-static</td>
<td>EC50 (48h) =81mg/L Daphnia magna Static</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone, O,O',O''-(methylsilylidyne)trioxime 22984-54-9</td>
<td>1.69</td>
<td>5.2</td>
</tr>
<tr>
<td>2-Butanone, oxime 96-29-7</td>
<td>0.65</td>
<td>5.8</td>
</tr>
<tr>
<td>N-[3-(Trimethoxyxysilyl)propyl]-1,2-ethanediamine 1760-24-3</td>
<td>-0.3</td>
<td>-</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone, O,O',O''-(methylsilylidyne)trioxime 22984-54-9</td>
<td>The substance is not PBT / vPvB</td>
</tr>
<tr>
<td>2-Butanone, oxime 96-29-7</td>
<td>The substance is not PBT / vPvB</td>
</tr>
<tr>
<td>N-[3-(Trimethoxyxysilyl)propyl]-1,2-ethanediamine 1760-24-3</td>
<td>The substance is not PBT / vPvB</td>
</tr>
</tbody>
</table>
12.6. Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

IMDG
Not regulated

IATA
Not regulated

ADR
Not regulated

Section 15: REGULATORY INFORMATION

National Regulations

Section 16: OTHER INFORMATION

Chronic Hazard Star Legend
* = Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet
No information available

Key Literature References and Sources for Data
No information available

Prepared By
Product Safety & Regulatory Affairs

Revision Date
16-May-2018

Revision note
Not applicable.

Training Advice
No information available

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet