SAFETY DATA SHEET

ASA FLEX COLOURED SILICONE PEWTER
Revision Number 1

Revision date 04-Aug-2019
Supersedes Date: 04-Aug-2019

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

1.1. Product Identifier

Product Name: ASA FLEX COLOURED SILICONE PEWTER
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>Hazard Classifications</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 4 (6.1D)</td>
</tr>
<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>
<tr>
<td>Specific target organ toxicity - Repeated exposure</td>
<td>Category 2 (6.9B)</td>
</tr>
</tbody>
</table>

2.2. Label Elements

Signal word: Danger

Hazard statements:
H312 - Harmful in contact with skin
H318 - Causes serious eye damage
H351 - Suspected of causing cancer
H332 - Harmful if inhaled
H373 - May cause damage to organs through prolonged or repeated exposure
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H317 - May cause an allergic skin reaction

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
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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/physician if you feel unwell
P363 - Wash contaminated clothing before reuse
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
P310 - Immediately call a POISON CENTER or doctor/physician

Storage
P405 - Store locked up

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
Mixture

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)trioxide</td>
<td>22984-54-9</td>
<td>10 - &lt;20</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-ethanediame</td>
<td>1760-24-3</td>
<td>1 - &lt;3</td>
</tr>
</tbody>
</table>

*** Any remaining ingredients are not hazardous

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Remove to fresh air.

Skin contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

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  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  Keep product and empty container away from heat and sources of ignition.

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  Ensure adequate ventilation, especially in confined areas.

6.2. Environmental precautions

Environmental precautions  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  Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections  Section 7: HANDLING AND STORAGE
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
Section 13: DISPOSAL CONSIDERATIONS

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling  Ensure adequate ventilation, especially in confined areas.

7.2. Conditions for safe storage, including any incompatibilities

General hygiene considerations  Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions  Keep container tightly closed and dry. Product cures with moisture.
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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
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

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 necessary under normal conditions.
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 No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Paste
Color clear
Odor Characteristic
Odor threshold No information available

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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Explosive properties
No information available

Oxidizing properties
No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity
None under normal use conditions.

10.2. Chemical stability

10.3. Possibility of hazardous reactions

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

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity
None under normal use conditions.

10.2. Chemical stability

10.3. Possibility of hazardous reactions

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No data available.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No data available.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>No data available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

<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”-(methylsilylidyne)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)</td>
<td>&gt; 4.83 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>N-[3-(Trimethoxysilyl)propyl]-1,2-et hanediamine 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>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>No information available.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No information available.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>No information available.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No information available.</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>No information available.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Target organ effects</td>
<td>No information available.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No information available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>The following substance(s) are classified in Annex VI CLP (1272/2008) as carcinogenic.</td>
</tr>
</tbody>
</table>

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-(Trimethoxyxilsilyl)propyl]-1,2-et hanediamine 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
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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-(Trimethoxysilyl)propyl]-1,2-ethanedi amine 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-(Trimethoxysilyl)propyl]-1,2-ethanedi amine 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

ERMA Group HSR002679

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet
No information available
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Key Literature References and Sources for Data
No information available

Prepared By Product Safety & Regulatory Affairs
Revision date 04-Aug-2019
Revision note Not applicable.
Training Advice No information available

Disclaimer
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End of Safety Data Sheet