

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 1 of 15

## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

**Product identifier used on the label**

: **TECKNIT 00236, Part 1**

**Product Code(s)** : 72-00236

**Recommended use of the chemical and restrictions on use**

: Two component silicone adhesive.  
No restrictions on use known.

**Chemical family** : Mixture of: Inorganic substances in powdered form; Aromatic Hydrocarbon; Silicone resin; Siloxanes; Halogenated aliphatic hydrocarbon; Pigment

**SDS number** : PHC-012

**Name, address, and telephone number of the manufacturer:**

**Parker Hannifin Corp.**

Chomerics Division  
77 Dragon Court  
Woburn, MA, USA  
01888

Manufacturer's Telephone # : (781) 935-4850

**Name, address, and telephone number of the supplier:**

**Parker Hannifin Corp.**

Chomerics Division  
135 Bryant Street  
Cranford, NJ, U.S.A.  
07016

Supplier's Telephone # : (781) 935-4850

**24 Hr. Emergency Tel #** : INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US)

### SECTION 2. HAZARDS IDENTIFICATION

**Classification of the chemical**

Blue paste. Solvent odor.

*Most important hazards:*

Highly flammable liquid and vapor. This material may be ignited by heat, sparks and direct flame. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Irritating to skin. Contains material which can cause cancer. Contains material that may cause adverse reproductive effects. May cause damage to organs through prolonged or repeated exposure. Occupational exposure to the substance or mixture may cause adverse effects. Refer also to TOXICOLOGICAL INFORMATION (Section 11).

Harmful to aquatic life. This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB). Avoid release to the environment. See Section 12 for more environmental information.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

- Flammable liquid - Category 2
- Aspiration toxicity - Category 1
- Skin corrosion/irritation - Category 2
- Carcinogenicity - Category 1B
- Reproductive toxicity - Category 2
- Specific target organ toxicity, repeated exposure - Category 2

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 2 of 15

## SAFETY DATA SHEET

### Label elements

Hazard pictogram(s)



Signal Word  
DANGER!

Hazard statement(s)

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. 10 - 30% of the mixture consists of ingredient(s) of unknown toxicity.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fume or vapor. Wash exposed skin thoroughly after handling. Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

In case of fire, use dry chemical, CO<sub>2</sub>, or alcohol foam to extinguish.

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents/container in accordance with local regulation.

### Other hazards

Other hazards which do not result in classification:

Toxic fumes, gases or vapors may evolve on burning. Direct eye contact may cause slight or mild, transient irritation. Mild respiratory irritant. Inhalation of fumes may result in metal fume fever, a flu-like illness. May cause gastrointestinal irritation. In extremely high concentrations, may cause symptoms of central nervous system depression. Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Chemical name   | Common name and synonyms       | CAS #      | Concentration (% by weight) |
|---|--------------------------------|------------|-----------------------------|
| Aluminum  | Not available.                 | 7429-90-5  | 45.0 - 70.0                 |
| Toluene   | Methylbenzene<br>Phenylmethane | 108-88-3   | 10.0 - 30.0                 |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | Silicone resin                 | 68440-70-0 | 10.0 - 30.0                 |
| silver  | Silver metal<br>Argentum       | 7440-22-4  | 10.0 - 30.0                 |
| Octamethylcyclotetrasiloxane  | Cyclodimethicone               | 556-67-2   | 3.0 - 7.0                   |

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 3 of 15

## SAFETY DATA SHEET

|                     |   |          |           |
|---------------------|---|----------|-----------|
| Tetrachloroethylene | Perchloroethylene<br>Ethylene tetrachloride | 127-18-4 | 0.1 - 1.0 |
|---------------------|---|----------|-----------|

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. IF exposed or concerned: Get medical advice/attention.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.
- Eye contact* : Rinse thoroughly with plenty of water, also under the eyelids. IF exposed or concerned: Get medical attention/advice.

#### Most important symptoms and effects, both acute and delayed

- : Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.  
Causes skin irritation. Contact may cause redness, swelling and a painful sensation.  
May cause cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.  
Suspected of damaging fertility or the unborn child. Symptoms in offspring may include reduced fetal weight, behavioral effects, delayed skeletal formation and hearing loss.  
Symptoms may also include significant reductions in mean live litter sizes and mean number of pups born.  
May cause damage to organs through prolonged or repeated exposure. Contains: Toluene.  
Toluene may cause damage to the brain and nervous system through prolonged or repeated exposure, if inhaled.  
Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.  
Mild respiratory irritant. May cause coughing and breathing difficulties. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing.

#### Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Provide general supportive measures and treat symptomatically.  
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam.

##### *Unsuitable extinguishing media*

- : Do not use water jet, as this may spread burning material.

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 4 of 15

## SAFETY DATA SHEET

### Special hazards arising from the substance or mixture / Conditions of flammability

- : Highly flammable liquid and vapor. This material may be ignited by heat, sparks and direct flame. Vapors may be heavier than air and may collect in confined and low-lying areas. Vapors may travel considerable distance to a source of ignition and flash back. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Toxic fumes, gases or vapors may evolve on burning.

### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable liquid - Category 2

### Hazardous combustion products

- : Carbon oxides; Metal oxides; formaldehyde; Hydrogen chloride; Chlorine; Phosgene; Silicon oxides; Hydrocarbons; Aldehydes; Nitrogen oxides (NOx); hydrogen cyanide; Other unidentified organic compounds.

### Special protective equipment and precautions for firefighters

#### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

#### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

### Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil. Avoid release to the environment.

### Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities. For waste disposal, see Section 13 of the SDS.

### Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): Toluene (1000 lbs / 454 kg); silver (1000 lbs / 454 kg); Tetrachloroethylene (100 lbs / 45.4 kg)

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 5 of 15

## SAFETY DATA SHEET

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

- : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe dust, fume or vapor. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame. - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapor) and can be dangerous.

#### Conditions for safe storage

- : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Keep away from incompatibles.

#### Incompatible materials

- : Strong oxidizing agents; Strong acids; Strong bases; Reactive metals; Alcohols

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Chemical Name</u>  | <u>ACGIH TLV</u>                      |             | <u>OSHA PEL</u>   |                   |
|---|---------------------------------------|-------------|---|-------------------|
|   | <u>TWA</u>                            | <u>STEL</u> | <u>PEL</u>  | <u>STEL</u>       |
|   |                                       |             |   |                   |
| Aluminum  | 1 mg/m <sup>3</sup> (respirable)      | N/Av        | 15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable) | N/Av              |
| Toluene   | 20 ppm                                | N/Av        | 200 ppm   | 300 ppm (Ceiling) |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | N/Av                                  | N/Av        | N/Av  | N/Av              |
| silver  | 0.1 mg/m <sup>3</sup> (dust and fume) | N/Av        | 0.01 mg/m <sup>3</sup>  | N/Av              |
| Octamethylcyclotetrasiloxane  | 10 ppm (AIHA WEEL)                    | N/Av        | N/Av  | N/Av              |
| Tetrachloroethylene   | 25 ppm                                | 100 ppm     | 100 ppm   | 200 ppm (Ceiling) |

#### Exposure controls

##### Ventilation and engineering measures

- : Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

##### Respiratory protection

- : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 6 of 15

## SAFETY DATA SHEET

- Skin protection** : Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear resistant clothing and boots.
- Eye / face protection** : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.
- Other protective equipment** : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Do not breathe dust, fume or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Blue paste
- Odor** : Solvent odor.
- Odor threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : N/Av
- Initial boiling point and boiling range** : > 110.16°C (230°F) (based on ingredients)
- Flash point** : 4.4°C (40°F) (based on ingredients)
- Flashpoint (Method)** : closed cup
- Evaporation rate (BuAe = 1)** : N/Av
- Flammability (solid, gas)** : Not applicable.
- Lower flammable limit (% by vol.)** : N/Av
- Upper flammable limit (% by vol.)** : N/Av
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapor pressure** : N/Av
- Vapor density** : N/Av
- Relative density / Specific gravity** : N/Av
- Solubility in water** : Insoluble.
- Other solubility(ies)** : N/Av
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av
- Auto-ignition temperature** : N/Av
- Decomposition temperature** : N/Av
- Viscosity** : N/Av
- Volatiles (% by weight)** : 16% (approximately)
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Av
- Flame projection length** : N/Av
- Other physical/chemical comments** : No additional information.

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 7 of 15

## SAFETY DATA SHEET

### SECTION 10. STABILITY AND REACTIVITY

- Reactivity** : Not normally reactive.
- Chemical stability** : Stable under normal conditions.
- Possibility of hazardous reactions** : Hazardous polymerization does not occur.
- Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
- Incompatible materials** : Strong oxidizing agents; Strong acids; Strong bases; Reactive metals; Alcohols
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

- Routes of entry inhalation** : YES
- Routes of entry skin & eye** : YES
- Routes of entry Ingestion** : YES
- Routes of exposure skin absorption** : YES

#### Potential Health Effects:

##### Signs and symptoms of short-term (acute) exposure

###### *Sign and symptoms Inhalation*

- : Mild respiratory irritant. May cause coughing and breathing difficulties. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression. Inhalation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

###### *Sign and symptoms ingestion*

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

###### *Sign and symptoms skin*

- : Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Can be absorbed through skin.

###### *Sign and symptoms eyes*

- : Direct eye contact may cause slight or mild, transient irritation. Symptoms may include stinging and tearing.

##### Potential Chronic Health Effects

- : Silver in the form of a finely divided dust may cause discoloration in contact with skin, and argyrosis in case of inhalation.

##### Mutagenicity

- : No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

##### Carcinogenicity

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Carcinogenicity - Category 1B. May cause cancer. This product contains Tetrachloroethylene, which is classified as carcinogenic by IARC (Group 2A) and ACGIH (Category A3).

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 8 of 15

## SAFETY DATA SHEET

### Reproductive effects & Teratogenicity

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive toxicity - Category 2. Suspected of damaging fertility or the unborn child if inhaled.
- Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data. Symptoms in offspring may include reduced fetal weight, behavioral effects, delayed skeletal formation and hearing loss.
- Contains Octamethylcyclotetrasiloxane. Octamethylcyclotetrasiloxane may cause adverse reproductive effects. Symptoms may also include significant reductions in mean live litter sizes and mean number of pups born.

### Sensitization to material

- : Not expected to be a skin or respiratory sensitizer.

### Specific target organ effects

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific target organ toxicity, repeated exposure - Category 2. May cause damage to organs through prolonged or repeated exposure. Contains: Toluene. Toluene may cause damage to the brain and nervous system through prolonged or repeated exposure, if inhaled.

According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single exposures.

### Medical conditions aggravated by overexposure

- : Pre-existing skin, eye, respiratory and central nervous system disorders.

### Synergistic materials

- : None known or reported by the manufacturer.

### Toxicological data

- : Not classified for acute toxicity based on available data. No data is available on the product itself.

See below for individual ingredient acute toxicity data.

| <u>Chemical name</u>  | <u>LC<sub>50</sub> (4hr)</u>   | <u>LD<sub>50</sub></u>           |                                  |
|---|--|----------------------------------|----------------------------------|
|   | <u>inh, rat</u>  | <u>(Oral, rat)</u>               | <u>(Rabbit, dermal)</u>          |
| Aluminum  | > 2.3 mg/L (dust) (No mortality)   | > 2000 mg/kg (No mortality)      | N/Av                             |
| Toluene   | 7585 ppm (28.1 mg/L) (vapor)   | 5580 mg/kg                       | 12 125 mg/kg                     |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | Not available. Unknown toxicity.   | Not available. Unknown toxicity. | Not available. Unknown toxicity. |
| silver  | > 5.16 mg/L (dust) (No mortality)  | > 2000 mg/kg (No mortality)      | > 2000 mg/kg (No mortality)      |
| Octamethylcyclotetrasiloxane  | 36 mg/L (aerosol)  | > 4800 mg/kg                     | > 2400 mg/kg (No mortality)      |
| Tetrachloroethylene   | 3786 ppm (25.7 mg/L) (vapor) (rat)<br>2613 ppm (17.7 mg/L) (vapor) (mouse) | 2600 mg/kg                       | > 3245 mg/kg                     |

### Other important toxicological hazards

- : None known or reported by the manufacturer.

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 9 of 15

## SAFETY DATA SHEET

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Harmful to aquatic life.  
No data is available on the product itself. Should not be released into the environment. The following ingredient(s) may be harmful to aquatic life: Toluene; Octamethylcyclotetrasiloxane; Tetrachloroethylene.  
This product also contains: Silver The acute toxicity of silver to aquatic species varies drastically by the chemical form and correlates with the availability of free ionic silver. Aquatic toxicity is highly variable not only by organism but with physical and chemical characteristics of the water itself.

See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

| <u>Ingredients</u>  | CAS No     | Toxicity to Fish        |                |          |
|---|------------|-------------------------|----------------|----------|
|   |            | LC50 / 96h              | NOEC / 21 day  | M Factor |
| Aluminum  | 7429-90-5  | N/Av                    | N/Av           | None.    |
| Toluene   | 108-88-3   | 5.4 mg/L (pink salmon)  | 1.4 - 4.0 mg/L | None.    |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | 68440-70-0 | N/Av                    | N/Av           | None.    |
| silver  | 7440-22-4  | N/Av                    | N/Av           | None.    |
| Octamethylcyclotetrasiloxane  | 556-67-2   | > 500 mg/L (Zebra fish) | N/Av           | None.    |
| Tetrachloroethylene   | 127-18-4   | 5 mg/L (Rainbow trout)  | N/Av           | None.    |

| <u>Ingredients</u>  | CAS No     | Toxicity to Daphnia                 |                  |          |
|---|------------|-------------------------------------|------------------|----------|
|   |            | EC50 / 48h                          | NOEC / 21 day    | M Factor |
| Aluminum  | 7429-90-5  | N/Av                                | N/Av             | None.    |
| Toluene   | 108-88-3   | 3.78 mg/L Ceriodaphnia (water flea) | 0.53 - 1 mg/L    | None.    |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | 68440-70-0 | N/Av                                | N/Av             | None.    |
| silver  | 7440-22-4  | N/Av                                | N/Av             | None.    |
| Octamethylcyclotetrasiloxane  | 556-67-2   | 25.2 mg/L/24hr (Daphnia magna)      | N/Av             | None.    |
| Tetrachloroethylene   | 127-18-4   | 8.5 mg/L (Daphnia magna)            | 0.51 mg/L/28-day | None.    |

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 10 of 15

## SAFETY DATA SHEET

| <u>Ingredients</u>  | <u>CAS No</u> | <u>Toxicity to Algae</u>     |                            |                 |
|---|---------------|------------------------------|----------------------------|-----------------|
|   |               | <u>EC50 / 96h or 72h</u>     | <u>NOEC / 96h or 72h</u>   | <u>M Factor</u> |
| Aluminum  | 7429-90-5     | N/Av                         | N/Av                       | None.           |
| Toluene   | 108-88-3      | N/Av                         | 10 mg/L/72hr (Green algae) | None.           |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | 68440-70-0    | N/Av                         | N/Av                       | None.           |
| silver  | 7440-22-4     | N/Av                         | N/Av                       | None.           |
| Octamethylcyclotetrasiloxane  | 556-67-2      | N/Av                         | N/Av                       | None.           |
| Tetrachloroethylene   | 127-18-4      | 3.64 mg/L/72hr (Green algae) | N/Av                       | None.           |

### Persistence and degradability

- : The product itself has not been tested.
- The following ingredients are considered to be readily biodegradable: Toluene
- Contains the following chemicals which are not readily biodegradable: silver; Aluminum; Tetrachloroethylene; Octamethylcyclotetrasiloxane.
- Octamethylcyclotetrasiloxane has a half life in sediment of > 728 days (Canadian Environmental Protection Agency). Octamethylcyclotetrasiloxane has a half-life in water of 37.5 days (Canadian Environmental Protection Agency).

### Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

| <u>Components</u>                           | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u>   |
|---|--|--|
| Toluene (CAS 108-88-3)                      | 2.65   | 90                                     |
| Octamethylcyclotetrasiloxane (CAS 556-67-2) | 6.49   | 12 400 (steady-state) (Fathead minnow) |
| Tetrachloroethylene (CAS 127-18-4)          | 3.4  | 49 (Fish)                              |

### Mobility in soil

- : The product itself has not been tested.

### Other Adverse Environmental effects

- : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Handling for Disposal

- : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
- Empty containers retain residue (liquid and/or vapor) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### Methods of Disposal

- : Dispose in accordance with all applicable federal, state, provincial and local regulations.

TECKNIT 00236, Part 1

72-00236





SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 11 of 15

## SAFETY DATA SHEET

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

### SECTION 14. TRANSPORT INFORMATION

| Regulatory Information                  | UN Number  | UN proper shipping name | Transport hazard class(es) | Packing Group | Label   |
|---|--|-------------------------|----------------------------|---------------|---|
| 49CFR/DOT                               | UN1133   | Adhesives               | 3                          | II            |    |
| <b>49CFR/DOT Additional information</b> | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Refer to 49 CFR 173.150(b) and Special Provision 149.   |                         |                            |               |   |
| TDG                                     | UN1133   | ADHESIVES               | 3                          | II            |   |
| <b>TDG Additional information</b>       | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Under the TDG, refer to Section 1.17 for additional exemption requirements, if shipping under this exemption. |                         |                            |               |   |
| ICAO/IATA                               | UN1133   | Adhesives               | 3                          | II            |  |
| <b>ICAO/IATA Additional information</b> | Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.  |                         |                            |               |   |
| IMDG                                    | UN1133   | ADHESIVES               | 3                          | II            |  |
| <b>IMDG Additional information</b>      | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.   |                         |                            |               |   |

**Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not applicable.

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 12 of 15

## SAFETY DATA SHEET

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

| <u>Ingredients</u>  | CAS #      | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical |                          |
|---|------------|----------------|--|--|---|--------------------------|
|   |            |                |  |  | Toxic Chemical  | de minimus Concentration |
| Aluminum  | 7429-90-5  | Yes            | None.  | None.  | Yes   | 1%                       |
| Toluene   | 108-88-3   | Yes            | 1000 lb/ 454 kg                                  | None.  | Yes   | 1%                       |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | 68440-70-0 | Yes            | None.  | None.  | No  | N/Ap                     |
| silver  | 7440-22-4  | Yes            | 1000 lb/454 kg                                   | None.  | Yes   | 1%                       |
| Octamethylcyclotetra-siloxane   | 556-67-2   | Yes            | None.  | None.  | No  | N/Ap                     |
| Tetrachloroethylene   | 127-18-4   | Yes            | 100 lb/ 45.4 kg                                  | None.  | Yes   | 0.1%                     |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Physical hazards (Flammable liquid)

Health hazards (Aspiration hazard; Skin irritation; Carcinogenicity; Reproductive toxicity; Specific target organ toxicity, repeated exposure)

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u>  | CAS #      | California Proposition 65 |                  | State "Right to Know" Lists |     |     |     |     |     |
|---|------------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|-----|
|   |            | Listed                    | Type of Toxicity | CA                          | MA  | MN  | NJ  | PA  | RI  |
| Aluminum  | 7429-90-5  | No                        | N/Ap             | Yes                         | Yes | Yes | Yes | Yes | Yes |
| Toluene   | 108-88-3   | Yes                       | Developmental    | Yes                         | Yes | Yes | Yes | Yes | Yes |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | 68440-70-0 | No                        | N/Ap             | No                          | No  | No  | No  | No  | No  |
| silver  | 7440-22-4  | No                        | N/Ap             | Yes                         | Yes | Yes | Yes | Yes | Yes |
| Octamethylcyclotetrasiloxane  | 556-67-2   | No                        | N/Ap             | No                          | No  | No  | No  | No  | No  |
| Tetrachloroethylene   | 127-18-4   | Yes                       | Cancer           | Yes                         | Yes | Yes | Yes | Yes | Yes |

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 13 of 15

## SAFETY DATA SHEET

### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

- Aluminum (Part 1, Group A Substance)
- Toluene (Part 1, Group A Substance; Part 5: Individual Substances)
- silver (Part 1, Group A Substance)
- Tetrachloroethylene (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

### International Information:

Components listed below are present on the following International Inventory list:

| <u>Ingredients</u>  | <u>CAS #</u> | <u>European EINECs</u> | <u>Australia AICS</u> | <u>Philippines PICCS</u> | <u>Japan ENCS</u> | <u>Korea KECI/KECL</u> | <u>China IECSC</u> | <u>New Zealand IOC</u>  |
|---|--------------|------------------------|-----------------------|--------------------------|-------------------|------------------------|--------------------|---|
| Aluminum  | 7429-90-5    | 231-072-3              | Present               | Present                  | Not listed        | KE-00881               | Present            | HSR001263 (coated, PGII); HSNO Approval: HSR001471, HSR001473 (coated, PGIII); HSNO Approval: HSR001474 (pyrophoric); HSNO Approval: HSR001472 (uncoated, PGII) |
| Toluene   | 108-88-3     | 203-625-9              | Present               | Present                  | (3)-2             | KE-33936               | Present            | HSR001227   |
| Siloxanes and Silicones, dimethyl, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, isopropyl alcohol and sodium silicate | 68440-70-0   | Polymer                | Present               | Present                  | Not listed        | KE-31127               | Present            | May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.                                |
| silver  | 7440-22-4    | 231-131-3              | Present               | Present                  | Not listed        | KE-31261               | Present            | HSR003077   |
| Octamethylcyclotetra-siloxane   | 556-67-2     | 209-136-7              | Present               | Present                  | (7)-475           | KE-26606               | Present            | HSR003225   |
| Tetrachloroethylene   | 127-18-4     | 204-825-9              | Present               | Present                  | (2)-114           | KE-33294               | Present            | HSR001551   |

### SECTION 16. OTHER INFORMATION

#### Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- AIHA: American Industrial Hygiene Association
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980

TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 14 of 15

## SAFETY DATA SHEET

CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
EC50: Effective Concentration 50%  
EINECS: European Inventory of Existing Commercial chemical Substances  
ENCS: Existing and New Chemical Substances  
EPA: Environmental Protection Agency  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IBC: Intermediate Bulk Container  
IECSC: Inventory of Existing Chemical Substances  
IMDG: International Maritime Dangerous Goods  
IOC: Inventory of Chemicals  
KECI: Korean Existing Chemicals Inventory  
KECL: Korean Existing Chemicals List  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NOEC: No observable effect concentration  
NTP: National Toxicology Program  
OECD: Organisation for Economic Co-operation and Development  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
RCRA: Resource Conservation and Recovery Act  
RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WEEL: Workplace Environmental Exposure Level  
WHMIS: Workplace Hazardous Materials Identification System

### References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2017.
- 2. International Agency for Research on Cancer Monographs, searched 2018.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2018 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - March 2015 version.
- 6. California Proposition 65 List - December 29, 2017 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2018.

### Preparation Date (mm/dd/yyyy)

: 05/18/2018

### Other special considerations for handling

: Provide adequate information, instruction and training for operators.



TECKNIT 00236, Part 1

72-00236

SDS Preparation Date (mm/dd/yyyy): 05/18/2018

Page 15 of 15

## SAFETY DATA SHEET

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