

MATERIAL SAFETY DATA SHEET

1. Chemical Product Identification

Product Name: **TINSIL® PART A, 70-10, 70-20, 70-25, 70-40 PART A**
Chemical Family: Silicone

2. Hazardous Constituents

Hazardous Ingredient/CAS #	Exposure Limits
Organotin compound	ACGIH TLV 0.1 mg/m ³ TWA (skin), 0.2 mg/m ³ STEL OSHA PEL 0.1 mg/m ³
Alkoxysilane	None established
Additional information on ingredients is withheld as a trade secret per 29 CFR 1910.1200(i).	

3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Inhalation, skin or eye contact, ingestion
EYE: May cause serious eye irritation and pain.
SKIN: May cause irritation and pain.
INGESTION: May cause malaise and irritation to the mouth, throat, esophagus and stomach.
INHALATION: May cause respiratory irritation, dizziness, headache, or confusion. But, at room temperature, vapors are expected to be minimal.
CARCINOGENICITY: Not designated as a carcinogen by NTP, IARC, or OSHA.
CHRONIC EFFECTS: Prolonged/repeated exposure may cause sore throat; adverse eye, skin, and respiratory effects; possible liver and kidney damage; and central nervous system disorders.
TARGET ORGANS: Eye, skin, liver, kidney, and central nervous system

4. First Aid Measures

EYE CONTACT: Flush with plenty of water for at least 15 minutes while holding eyelids apart. Remove contact lenses. Seek medical attention if irritation persists.
SKIN CONTACT: Remove contaminated clothing. Wash with soap and warm water for 15 min.
INHALATION: Remove to fresh air. Seek medical attention if breathing is difficult.
INGESTION: Seek medical attention. Do not induce vomiting unless so directed by a medical professional.

5. Fire Fighting Measures

FLASHPOINT: >203°F (estimated)
EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical or foams
HAZARDOUS COMBUSTION PRODUCTS: May include carbon and silicone oxides and potentially irritating compounds such as formaldehyde.
OTHER INFORMATION: Firefighters wear self-contained breathing apparatus (SCBA). Application of water stream to hot product may cause frothing and increase fire intensity. This material may produce a floating fire hazard. If possible, keep fire-exposed containers cool with water spray to prevent rupture.

6. Accidental Release Measures

Clear non-emergency personnel from the area. Remove sources of ignition. Contain spill to minimize environmental contamination. Absorb spilled material with a absorbent such as sawdust, vermiculite, dirt, sand, clay, or cob grit. Collect and containerize material. Cleanup personnel wear protective equipment (see Section 8).

7. Handling and Storage

HANDLING: Use in adequately ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. See also Section 8 of MSDS.
STORAGE: Store in a cool, dry area. Store in original, closed container.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide general and/or local exhaust. At room temperature, no special exhaust is needed.
PERSONAL PROTECTIVE EQUIPMENT: Eye protection (e.g., chemical splash goggles), and butyl rubber gloves are recommended.
RESPIRATORY PROTECTION: Under normal conditions, respiratory protection is not required. In the absence of good ventilation, may use respirator equipped with organic vapor cartridges: in emergency situations, use SCBA.

9. Physical Characteristics

APPEARANCE: Blue liquid, 70-40A is colorless
ODOR: Mild, sweet odor
pH: Not applicable
BOILING POINT: >364°F (estimated)
VISCOSITY: 50-100 cP
VAPOR PRESSURE: <1 mm Hg @ 25°C
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: ~1.0 @ 20°C

10. Stability and Reactivity

CONDITIONS TO AVOID: Normally stable, but avoid prolonged storage at high temperatures.
INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with minerals acids (e.g., sulfuric and phosphoric), oxidizers (e.g., perchlorates, nitrates).
HAZARDOUS DECOMPOSITION PRODUCTS: Depends on temperature, air supply and presence of other materials; likely to form oxides of carbon and silicone, possibly formaldehyde.

11. Regulatory and Other Information

COMMUNITY RIGHT-TO-KNOW: This product does not contain any compounds above the *de minimis* reporting levels subject to SARA Section 313 reporting requirements.
DISPOSAL: Upon disposal, this product is not a listed or characteristic RCRA hazardous waste as defined in 40 CFR 261. Dispose of in accordance with state and local regulations.
TRANSPORT: Not a hazardous material by ground (49 CFR Part 171) or air (IATA). By boat: Environmentally hazardous substance, n.o.s. (organotin compound), Marine Pollutant (IMDG).
EMERGENCY SHIPPING INFORMATION: Call CHEMTREC, 800/424-9300.
HMIS: Health=2; Flammability=1; Reactivity=0; PPE=C
MSDS REVISION INDICATOR: Revised Section 2 and various format modifications.
DISCLAIMER: The information contained herein is considered accurate; however, the manufacturer makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.

MATERIAL SAFETY DATA SHEET

1. Chemical Product Identification

Product Name: **TINSIL® PART B**
70-10, 70-20, 70-25, 70-30, 70-40, 70-60 PART B
Chemical Family: Silicone

2. Hazardous Constituents

Hazardous Ingredient/CAS #	Exposure Limits
Organofunctional-siloxanes	None established
Silica	Not applicable (not present as a dust)
Additional information on ingredients is withheld as a trade secret per 29 CFR 1910.1200(i).	

3. Health Hazards

PRIMARY ROUTE(S) OF ENTRY: Skin or eye contact
EYE: May cause eye irritation.
SKIN: May cause irritation or redness.
INGESTION: May cause gastrointestinal discomfort.
INHALATION: At room temperature, no harmful effects expected. Vapors from heated material may cause respiratory irritation.
CARCINOGENICITY: Not designated as a carcinogen by NTP, IARC, or OSHA.
CHRONIC EFFECTS: No information found concerning adverse chronic health effects.

4. First Aid Measures

EYE CONTACT: Flush with plenty of water. Seek medical attention if irritation persists.
SKIN CONTACT: Wipe off and wash with soap and plenty of warm water.
INHALATION: Remove to fresh air. Seek medical attention if symptoms develop.
INGESTION: Seek medical attention. Do not induce vomiting unless so directed by a medical professional.

5. Fire Fighting Measures

FLASHPOINT: >350°F (estimated)
EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical or foams
HAZARDOUS COMBUSTION PRODUCTS: May include carbon and silicone oxides and potentially irritating compounds such as formaldehyde.
OTHER INFORMATION: Firefighters wear self-contained breathing apparatus (SCBA).
Application of water stream to hot product may cause frothing and increase fire intensity. This material may produce a floating fire hazard. If possible, keep fire-exposed containers cool with water spray to prevent rupture.

6. Accidental Release Measures

Clear non-emergency personnel from the area. Remove sources of ignition. Contain spill to minimize environmental contamination. Absorb spilled material with an absorbent such as sawdust, vermiculite, dirt, sand, clay, or cob grit. Collect and containerize material.

7. Handling and Storage

HANDLING: Use in adequately ventilated area. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke in work area. Wash hands after handling. See also Section 8 of MSDS.
STORAGE: Store in a cool, dry area. Store in original, closed container.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Provide general and/or local exhaust. At room temperature, no special exhaust is needed.
PERSONAL PROTECTIVE EQUIPMENT: Eye protection (e.g., chemical splash goggles), and rubber gloves are recommended.
RESPIRATORY PROTECTION: Under normal conditions, respiratory protection is not required. In the absence of good ventilation, may use respirator equipped with organic vapor cartridges: in emergency situations, use SCBA.

9. Physical Characteristics

APPEARANCE: White opaque liquid,
except 70-30B is beige and 70-60B is red
ODOR: Mild
pH: Not applicable
BOILING POINT: Not determined
VISCOSITY: 20,000-70,000 cP
VAPOR PRESSURE: Not determined
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: 1.1-1.5 @ 20°C

10. Stability and Reactivity

CONDITIONS TO AVOID: Normally stable, but avoid prolonged storage at elevated temperatures to assure product integrity.
INCOMPATIBILITY WITH OTHER MATERIALS: None known.
HAZARDOUS DECOMPOSITION PRODUCTS: Depends on temperature, air supply and presence of other materials; likely to form oxides of carbon and silicone, possibly formaldehyde.

11. Regulatory and Other Information

SARA SECTION 313: This product does not contain any compounds above the *de minimis* reporting levels subject to SARA Section 313 reporting requirements.
RCRA: Upon disposal, this product is not a listed or characteristic RCRA hazardous waste as defined in 40 CFR 261. Dispose of in accordance with state and local regulations.
DOT: Not a hazardous material for shipping purposes based on *United Nations Recommendations for the Transport of Dangerous Goods* and 49 CFR Part 171.
EMERGENCY SHIPPING INFORMATION: Call CHEMTREC, 800/424-9300.
HMIS: Health=0; Flammability=0; Reactivity=0; PPE=C

MSDS REVISION INDICATOR: Several minor revisions.

DISCLAIMER: The information contained herein is considered accurate; however, the manufacturer makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.