

MATERIAL SAFETY DATA SHEET

MANUFACTURER: Alvin Products, Inc.
360 Merrimack St.
Lawrence, MA 01843-1718

Emergency Telephone: (800) 636-6063
Poison Control Center: (800) 682-8211
Information Telephone: (508) 876-4580
Date of Revision: 2/94

PRODUCT IDENTIFICATION: TELCON W

COMPONENTS: <u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Wt</u>
WATER	7732-18-5	>90%
POLY-TFE, OMEGA-HYDRO-ALPHA-(METHYLCYCLOHEXYL)	65530-85-0	1-5%
POLY-TFE, ALPHA-CHLORO-OMEGA-(2,2-DICHLORO-TRI-FLUOROETHYL)	79070-11-4	5-2%
PERFLUOROALKYL POLYALKYLETHER		< .5%

PHYSICAL DATA:**Boiling Point:** 100°C (liquid)**Melting Point:** 300°C (solid)**Freezing Point:** -5 to 0°C**Vapor Density:** >1 (Air=1.0)**Vapor Pressure:** 24 mm Hg at 25°C**% Volatile Volume:** 97%**Water Solubility:** Dispersible**pH:** 4 - 6**Odor:** Slight Sweet**Form:** Fluid Dispersion**Color:** Opaque white**FIRE AND EXPLOSION DATA:****Flash Point:** None**Extinguishing Media:** Use media appropriate for surrounding material.**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus. Wear full protective equipment.**Fire and Explosion Hazards:** Hazardous gases/vapors produced in fire are:
Carbon monoxide, nitrogen oxide, hydrogen chloride, hydrogen fluoride.**HEALTH HAZARD DATA:**

Animal Data: Telcon W: Oral ALD: >17,000 mg/kg in rats. This product is a mild skin irritant, is a mild eye irritant, and is not a skin sensitizer in animals. Toxic effects described in animals exposed to decomposition products formed at temperatures above 260°C (500°F) include lung irritation. Pulmonary edema and death occurred in rats exposed to decomposition products formed at around 290°C (554°F).

Effects of overexposure: **INHALATION:** Inhalation of decomposition products of Poly TFE may cause polymer fume fever; or lung irritation requiring medical treatment for fluorine compounds which can cause delayed pulmonary edema. Polymer fume fever is flu-like conditions which occurs several hours after exposure and subsides within 24 hours even in the absence of treatment. Polymer fume fever does not cause permanent injury and the effects are not cumulative. **SKIN CONTACT:** May cause skin irritation with discomfort or rash. Prolonged skin contact may cause temporary tingling, numbness, coldness or drying of the skin. There are no reports of human sensitization of the product. Individuals with pre-existing diseases of the central nervous or cardiovascular system may have increased susceptibility to the toxicity of excessive exposures. **EYE CONTACT:** May cause eye irritation with discomfort, tearing or blurring of vision.

CARCINOGENICITY: None of the components in this material are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.**EXPOSURE LIMITS:** TLV (ACGIH): None established. PEL (OSHA) None established.**SAFETY PRECAUTIONS:** Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.**Emergency First Aid Procedures:****INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.**SKIN CONTACT:** The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.**EYE CONTACT:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.**INGESTION:** If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.**NOTES TO A PHYSICIAN:** Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400 ml water and mix thoroughly. Administer 5 ml/kg, or 350 ml for an average adult.**REACTIVITY DATA:****Stability:** Stable at normal temperatures and storage conditions.**Hazardous Polymerization:** Will not occur.**Decomposition:** Decomposes with heat. Decomposition temperature > 300°C. Hazardous gases/vapors produced are:Carbon monoxide, nitrogen oxide, hydrogen chloride, hydrogen fluoride. **Incompatibility:** None reasonably foreseeable.**PROTECTION INFORMATION:****Generally applicable control measures and precautions:** Use only with adequate ventilation. Keep away from heat, sparks, and flames. Keep container tightly closed.**Personal protective equipment:** **Eye/Face protection:** Wear safety glasses or coverall chemical splash goggles. **Respirators:** Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.**Protective Clothing:** Where there is a potential for skin contact, have available and wear as appropriate impervious gloves, apron, pants, and jacket.**DISPOSAL INFORMATION:****Spill, leak, or release:** Review fire and explosion hazards and safety precautions before proceeding with clean-up. Use appropriate personal protective equipment during clean-up. Soak up with sawdust, sand, oil dry or other absorbent material.**Waste disposal:** Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.**ADDITIONAL INFORMATION:**

All the components are listed on the TSCA Public Inventory.

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Poison Control Center: (800) 682-9211
Information Telephone: (508) 975-4580

PRODUCT IDENTIFICATION:
Product Number: 40102, 40103
Product Name: TELCON

Revision: 3/96
Product Class: Dry lubricant & release agent

HAZARDOUS INGREDIENTS:

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Wt.</u>	<u>Occupational Exposure Limits</u>		<u>Vapor Pressure</u> mm Hg
			<u>TLV</u>	<u>PEL</u>	
METHYLENE CHLORIDE	75-09-2	95-99%	50ppm	500ppm	355 @ 20°C (Note 1)
ISOPROPYL ALCOHOL	67-63-0	1-3%	400ppm	400ppm	33 @ 20°C
POLY-TFE, OMEGA-HYDRO-ALPHA- (METHYLCYCLOHEXYL)	65630-65-0	1-3%	1000ppm	1000ppm	334 @ 25°C
POLY-TFE, ALPHA-CHLORO-OMEGA- (2,2-DICHLORO-TRI-FLUOROETHYL)	79070-11-4	.01-.9%	25ppm	100ppm	40 @ 25°C

The above listed substances are subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HMIS (Hazardous Materials Identification System - National Paint & Coatings Association)

Health: 2 (moderate) **Reactivity:** 0 (minimal) **Flammability:** 1 (slight) **Personal Protection:** G
(gloves, goggles, vapor mask)

Note 1: The OSHA acceptable ceiling concentration is 1000 ppm. The acceptable maximum peak above the acceptance ceiling concentration for an 8-hour shift is 2000 ppm for a maximum duration of 5 minutes in any 2 hours. NIOSH recommends a limit of 75 ppm, 8-hour TWA; 500 ppm 15 minute ceiling.

PHYSICAL DATA:

Boiling Range: 104-165°F **% Volatile Volume:** 95
Evaporation Rate: slower than ether
Vapor Density: heavier than air

FIRE AND EXPLOSION DATA:

Flammability Classification: OSHA: not applicable
DOT: not applicable
Flash Point: 175°F **Lower Explosive Limit:** 13.0% @ 25°C **Upper Explosive Limit:** 23.0%

Extinguishing Media: Use National Fire Protection Association (NFPA) Class extinguishers suitable for combustibles in area.

Special Fire Fighting Procedures: Evacuate personnel to a safe area. Decomposition at flame temperatures form potentially toxic compounds. Avoid breathing decomposition products. Full protective equipment, including self-contained breathing apparatus should be used.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. During emergency operations, over-exposure to decomposition products may be a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Do not apply this product to hot surfaces.

HEALTH HAZARD DATA:

Primary routes of entry: Inhalation, skin contact.

Effects of chronic overexposure: Exposure to methylene chloride can raise the level of carbon monoxide in the blood causing cardiovascular stress. Methylene chloride has been shown to cause cancer in laboratory animals. It has been listed as a possible carcinogen by IARC and NTP. There is inadequate information to associate methylene chloride exposure during pregnancy with harm to the fetus. Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: Liver abnormalities, lung damage, kidney damage.

SKIN CONTACT: Prolonged or repeated contact with skin will dry and defat skin, leading to irritation and dermatitis.

EYE CONTACT: Direct contact with product will result in eye irritation.

INGESTION: May be harmful if swallowed.

Toxicity Information: Inhalation: Minimal anesthetic or narcotic effects may be seen in the range of 500-1000 ppm. Progressively higher levels over 1000 ppm may cause dizziness. Concentrations as low as 10,000 ppm can cause unconsciousness and death.

Emergency First Aid Procedures: INHALATION: Remove to fresh air, get medical attention. Restore breathing if necessary.

EYE AND SKIN CONTACT: Promptly and thoroughly wash eyes with water for 15 minutes and get medical attention; remove contaminated clothing and wash with soap and water. Wash clothing before reuse.

INGESTION: If victim is conscious, give two glasses of water to drink. Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person.

REACTIVITY DATA:

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: May decompose at high temperatures forming hydrochloric and hydrofluoric acids and possible carbonyl halides.

Conditions to Avoid: High temperatures, sparks, open flame.

Incompatibility: (Materials to avoid): Amines, alkali or alkaline earth metals especially if powdered (aluminum, zinc, etc.) Do not store or transfer in aluminum or zinc containers or pumps.

SPILL OR LEAK PROCEDURES:

Steps to be taken in case material is released or spilled: Remove all ignition sources. Keep unnecessary people away. Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid to containers for recovery or disposal. Minimize breathing vapor. Ventilate confined spaces. Keep spill out of sewers and watercourses. Advise authorities if product has entered sewers, watercourses or extensive land areas. Floors may be slippery, care should be taken to avoid falls.

Waste disposal method: Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved disposal site or facility. Spilled product is a hazardous waste.

SAFE HANDLING AND USE INFORMATION:

Respiratory protection: In outdoor or open areas use Bureau of Mines approved mechanical filter respirator to remove vapor. In restricted ventilation areas, use Bureau of Mines approved chemical-mechanical filters designed to remove vapor. In confined areas, use Bureau of Mines approved air line type respirators or hoods.

Ventilation: Provide general dilution or local exhaust ventilation in volume and pattern to keep occupational exposure limits and Lel below required limits.

Protective gloves: Impervious, solvent resistant gloves should be worn.

Eye protection: Use safety eyewear designed to protect against mist and splash.

Hygienic practices: Wash before eating or smoking. Smoke in designated areas only. Remove contaminated clothing and wash before reuse.

SPECIAL PRECAUTIONS:

Precautions to be taken in handling and storing: Store in a cool, dry place. Keep containers closed. Avoid eye and skin contact. Avoid inhalation of vapors.

Other precautions: Do not take internally. Containers should be grounded when pouring.

WARNING! Vapor harmful. Keep away from heat and open flame. Close container after each use. Hazardous product residue may remain after the product has been removed from its container. Do not reuse "empty" container without commercial cleaning or reconditioning. Do not flame cut containers.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

The state of California has listed methylene chloride under Proposition 65 as a chemical known to the state to cause cancer.

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