

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Name of the Product: STETCOTHANE 702

Product Code: FG0561

Product Use: Wood Coating

Producer: **M.D. Stetson Company**
92 York Avenue
Randolph, MA. 02368

Telephone Number for Information - (781) 986-6161

Emergency Phone Number – Local Poison Control Center

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification: This chemical is considered hazardous by the 2012 OSHA HAZARD Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation Category 2A
Reproductive toxicity Sub-category 1B
Specific target organ toxicity (single exposure) Category 3

Pictogram:  Health Hazard

Signal Word: Danger

Hazard Statement: Causes serious eye irritation
May damage fertility or the unborn child
May cause respiratory irritation

Precautionary Statements - Prevention

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- Wash face, hands and any exposed skin thoroughly after handling
- Wear eye/face protection
- Avoid breathing vapor or mist
- Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
- IF eye irritation persists: Get medical advice/attention
- IF INHALED: Removed victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

- Store in a well-ventilated place.
- Keep container tightly closed

Precautionary Statements - Disposal

- Dispose of contents/container to an approved waste disposal plant

SECTION 3 – Composition/Information on Ingredients

<u>Component</u>	<u>CAS#</u>	<u>RANGE BY WEIGHT (%)</u>
Polyurethane Resin	Proprietary	32 - 34
1-Methyl-2-Pyrrolidinone	870-50-4	4 - 6
Triethylamine	121-44-8	1 – 2

If CAS number is “proprietary”, the specific chemical identity has been withheld as a trade secret.

SECTION 4 – FIRST AID MEASURES

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Eye Contact: Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Ingestion: Do not induce vomiting unless directed so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet. **GET IMMEDIATE MEDICAL ATTENTION.**

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media: Carbon Dioxide, foam, dry chemical, water spray.

Hazardous Combustion Products: May produce carbon monoxide, carbon dioxide, nitrogen oxides.

Combustion/Explosion Hazard: This material will not burn unless it is evaporated to dryness. Closed containers may rupture when exposed to extreme heat.

Precautions for Firefighting: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. Use water spray to cool fire-exposed containers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Stop leak if no risk is involved. Move container(s) from affected area. Dilute with water and mop up. Absorb with inert material. Small amounts of material can be flushed, material is biodegradable.

Large Spills: Stop leak if no risk is involved. Move container(s) from affected area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect with absorbent material i.e. sand, earth, vermiculite or diatomaceous earth. Dispose of via a licensed waste disposal contractor.

See section 1 for emergency contact information and section 13 for waste disposal information.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling: Put on appropriate personal protective equipment. Do not get in eyes, skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container, tightly closed, when not in use. Keep away from acids. Do not reuse container.

Advice on General Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas where this product is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene measures.

KEEP OUT OF REACH OF CHILDREN

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

1-Methyl-2-Pyrrolidinone (CAS 870-50-4)

AIHA - WEEL	Can be absorbed through the skin.
	40 mg/m ³
	10 ppm
Canada - Ontario OELs	400 mg/m ³ TWA

Triethylamine (CAS121-44-8)

ACGIH TLV	1 ppm TWA (skin) 3 ppm STEL A4 Not classifiable as a human carcinogen
OSHA PEL	25 ppm TWA 100 mg/m ³ TWA
Canada - Alberta OELs	3 ppm STEL 12 mg/m ³ STEL 1 ppm TWA 4.1 mg/m ³ TWA Substance may be readily absorbed through the skin
Canada - Ontario OELs	1 ppm TWA 3 ppm STEL
Canada - British Columbia OELs	1 ppm TWA 3 ppm STEL (skin)
NIOSH IDLH	200 ppm Immediately dangerous to life or health IDLH
Mexico OEL	40 ppm STEL 160 mg/m ³ STEL 25 ppm TWA 100 mg/m ³ TWA (skin)

Legend: AIHA - American Industrial Hygiene Association
WEEL - Workplace Environmental Exposure Level
OEL - Occupational Exposure Limit
TWA - Time Weighted Average
ACGIH - American Conference of Governmental Industrial Hygienists
TLV[®] - Threshold Limit Value
STEL - Short Term Exposure Limit
NIOSH - National Institute for Occupational Safety and Health
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
IDLH - Immediately Dangerous to Life or Health
Skin - Skin Absorption

General Advice: The recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain airborne levels.

Eye Protection: Safety eyewear that complies should be used to avoid exposure to liquid splashes. Recommended safety glasses with side shields.

Skin Protection: Chemical resistant gloves should be used at all times when handling any chemical product. Disposal vinyl is recommended.

Respiratory Protection: None required if hazards have been assessed and airborne concentrations are maintained below the exposure limits listed in Section 8. Wear an approved air-purifying respirator with organic vapor/amine cartridges where airborne concentrations may exceed exposure limits in Section 8. Use an approved positive-pressure air-supplied respirator with emergency escape provisions if there is any potential for an uncontrolled release, airborne concentrations are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

SECTION 9 – PHYSICAL PROPERTIES

Appearance	Slightly hazy
Odor	Characteristic Urethane
Odor Threshold	Not available
Physical State	Liquid
pH	8.0 - 9.0
Flash Point (TCC)	Not applicable. Product does not sustain combustion.
Auto ignition Temperature	No information available
Boiling point/boiling range	212°F - 396°F 100°C - 202°C
Melting point/freezing point	No information available
Flammability (solid/gas)	No information available
Flammable Limit in Air	No information available
Lower	No information available
Upper	No information available
Relative Density	1.0 - 1.05
Solubility	Water soluble
Evaporation Rate	< 1 (BuAc = 1)
Vapor Pressure	No information available
Vapor Density	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available
VOC Content	150 g/l (calculated) product as supplied
Viscosity	30 cps. @ 25°C
Partition Coefficient (n-octanol/water)	No information available
Decomposition temperature	No information available

SECTION 10 – STABILITY AND REACTIVITY

Stability: This product is stable under normal conditions.

Conditions to Avoid: Extreme heat and cold.

Incompatible Products: Strong acids
 Strong bases
 Strong oxidizing agents
 Reducing agents

Hazardous Decomposition Products: Carbon monoxide
 Carbon dioxide (CO₂)
 Hydrocarbons
 Nitrogen oxides (NO_x)

Hazardous Polymerization: Product will not undergo hazardous polymerization.

SECTION 11 – TOXICOLOGICAL INFORMATION

Primary Routes of Entry: Skin contact
 Skin Absorption
 Inhalation
 Eye contact

Acute Toxicity:

1-Methyl-2-Pyrrolidinone (CAS 870-50-4)
 Oral LD 50 Rat: 4,150 mg/kg
 Dermal LD50 Rat: 7,000 mg/kg
 Inhalation LC50 Rat: > 5 mg/l (4 Hours)

Triethylamine (CAS121-44-8)
Oral LD 50 Rat: 460 mg/kg
Dermal LD50 Rabbit: 416 mg/kg
Inhalation LC50 Rat: > 1000 ppm (4 Hours)

Chronic Toxicity:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, OSHA and or IARC.

Reproductive Toxicity:

Adverse effects on reproduction have been reported in rats after ingestion of amounts of 1-Methyl-2-Pyrrolidinone which also caused mild generalized changes in the parental animals. Fetal effects have been noted in pregnant animals exposed by ingestion, inhalation and skin contact, and occurred both in the presence and absence of maternal toxicity.

Target Organs:

Eyes
Central Vascular System (CVS)
Kidney
Liver
Central Nervous System

SECTION 12 – Ecological Information

Ecotoxicity:

1-Methyl-2-Pyrrolidinone	
Log Kow	-0.46
Algae	EC50 > 500 mg/l (Desmodesmus subspicatus) (72h)
Aquatic Invertebrates	EC50 = 4897 mg/l (Daphnia magna) (48h)
Fish	LC50 = 832 mg/l (Lepomis macrochirus) (96h) static LC50 = 4000 mg/l (Leuciscus idus) (96h) static LC50 = 1072 mg/l (Pimephales promelas) (96h) static LC50 = 1400 mg/l (Poecilia reticulata) (96h) static
Triethylamine	
Log Kow	1.45
Bioconcentration Factor	<4.9
Aquatic Invertebrates	EC50 = 2000 mg/l (Daphnia magna) (48h)
Fish	LC50 = 43.7 mg/l (Pimephales promelas) (96h) static

Bioaccumulation: No information available

Persistence/Degradability: No information available.

Other adverse effects: No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your local State Water Board or Regional Office of the EPA.

SECTION 14 – TRANSPORTATION INFORMATION

Unit Containers: 55 Gallon Plastic, 30 Gallon Plastic, 5 Gallon Plastic, 1 Gallon Plastic, 1 Quart Plastic

Reportable Quantity: Not Applicable

TDG: Not Regulated
DOT: Not Regulated
IATA: Not Regulated
IMDG/IMO: Not Regulated

SECTION 15 – REGULATORY INFORMATION

TSCA Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory. A substance in this product is subject to a TSCA Significant New Use Rule (SNUR) under 40 CFR § 721.10414. As long as the concentration of this substance is less than 1% by weight, only the provisions of 40 CFR § 721.125(b) and (c) would apply.

Canadian Inventory Status: This material contains components that are NOT listed on the Canadian Domestic Substances List (DSL).

US Federal Regulations:

Section 313 of Title III of the Superfund Amendments and Reauthorization ACT of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<u>Component</u>	<u>CAS#</u>	<u>Weight (%)</u>	<u>SARA 313 Status</u>
Triethylamine	121-44-8	1 - 2	Listed

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

TSCA 12(b) - Export Notification:

This material does not contain any components that are subject to the US Toxic Substances Control act (TSCA) section 12(b) Export Notification requirements.

Clean Air Act, Section 12 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

<u>Component</u>	<u>CAS#</u>	<u>Weight (%)</u>
Triethylamine	121-44-8	1 - 2

Chemical Weapons Convention (CWC):

This product does not contain any listed substances.

California Proposition 65: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. The California Safe Drinking Water and Toxic Enforcement Act of 1986 requires that clear and reasonable warning be given prior to exposing any person to this chemical.

SECTION 16 - OTHER INFORMATION

Prepared By David Sadlo
Revision Date June 3, 2016
Former Date May 20, 2015
Revision Summary This safety data sheet contains changes from the previous version in section(s):
2, 3, 5, 8, 9, 10, 11, 12, 15

The information herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results. Also this shall not establish a legally valid contractual relationship.

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in use of the material.

Our products are intended for sale to industrial and commercial customers. We encourage customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications.

Warranty: The manufacturer warrants that products sold comply with specifications as represented and will perform satisfactorily if used according to the directions, or the manufacturer will refund or replace any unused portion thereof, for a period of one year from the date of manufacture. The manufacturer does not make any other warranty, or assume responsibility of any kind, expressed or implied regarding the effect or result of the products use; and assumes no responsibility of injury to vendee or third parties proximately caused by the material if reasonable safety procedures are not adhered to.