

SAFETY DATA SHEET

Date Issued : 1/14/2014
MSDS No : SPLVA
Date Revised : 11/11/2014
Revision No : 8

STA'-PUT SP80 Aerosol Adhesive

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STA'-PUT SP80 Aerosol Adhesive

MANUFACTURER

ITW Polymers Sealants North America
 56 Air Station Industrial Park
 Rockland, MA 02370

Product Stewardship: (781) 878-7015

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation): (800) 424-9300

COMMENTS: STA'-PUT is a registered trademark of Illinois Tool Works, Inc.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
 Eye Irritation, Category 2A
 Mutagenicity, Category 1B
 Carcinogenicity, Category 1B
 Reproductive Toxicity, Category 2
 Target Organ Toxicity (Single exposure), Category 3
 Target Organ Toxicity (Repeated exposure), Category 2
 Aspiration Hazard, Category 1

Physical:

Flammable Liquids, Category 1
 Liquefied Gases

GHS LABEL



Flame



Health hazard



Exclamation mark



Gas cylinder

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H225: Highly flammable liquid and vapour.
 H280: Contains gas under pressure; may explode if heated.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H351: Suspected of causing cancer.
 H373: May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENT(S)

Prevention:

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[201]: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash hands, forearms, and other exposed areas thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P321: Specific treatment (see section 4).
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381: Eliminate all ignition sources if safe to do so.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P410: Protect from sunlight.

Disposal:

P501: Dispose of contents/container according to local, regional, national, and international regulations.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: DANGER! Extremely flammable liquid and vapor. Vapors may cause flash fire and explosion. Harmful or fatal if swallowed. Contents under pressure. Can cause eye, skin and respiratory tract irritation. Methanol may be absorbed through the skin. Methyl acetate creates a special hazard because it floats on water.

POTENTIAL HEALTH EFFECTS

EYES: Contact causes severe eye irritation with redness, tearing and pain. May cause possible corneal injury.

SKIN: May cause moderate skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

SKIN ABSORPTION: May be absorbed through the skin.

INGESTION: Harmful or fatal if swallowed. Inflammation of mouth, throat, esophagus and/or stomach. Can cause gastrointestinal irritation with symptoms of nausea, vomiting and diarrhea. Methanol may cause systemic toxicity with acidosis. May cause central nervous system depression (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision). May cause cardiopulmonary system effects.

INHALATION: Irritating to the nose, throat and respiratory tract. Exposure to high concentrations of vapor or mist can cause central nervous system depression with symptoms of headache, dizziness, stupor, loss of consciousness or death depending on concentration and duration of exposure. Exposure to high concentrations can cause irregular heartbeat, cardiac arrest and death. Prolonged exposure may cause adverse effects on the lungs, liver, kidney and heart.

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ROUTES OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, and Skin Contact

TARGET ORGAN STATEMENT: Central nervous system (CNS) depression, liver, kidneys, pancreas, heart, lungs and brain. Overexposure to methanol may cause visual impairment or blindness.

IRRITANCY: Eyes, nose, throat, respiratory tract, and skin irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt. % | CAS |
|---|---------|------------|
| Methyl Acetate | 15 - 40 | 79-20-9 |
| Dimethyl Ether | 10 - 30 | 115-10-6 |
| Hydrocarbon Propellant | 10 - 30 | Mixture |
| n-Hexane | 7 - 13 | 110-54-3 |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | 3 - 10 | 64742-89-8 |
| n-Heptane | 1 - 5 | 142-82-5 |
| Cyclohexane | 1 - 5 | 110-82-7 |
| Methanol | < 0.5 | 67-56-1 |

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of tempered water (at least 15-20 minutes) lifting upper and lower eye lids occasionally. Get immediate medical attention.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash or dispose of clothing before reuse.

INGESTION: Do not induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Class IB

GENERAL HAZARD: Flammable liquid and vapor.

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, or fog.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide

EXPLOSION HAZARDS: Avoid fire, sparks, static electricity and hot surfaces. Liquid readily evaporates at room/ambient temperature. Vapors are invisible, flammable, heavier than air, and may accumulate in low areas and spread long distances. Distant ignition and flashback are possible.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus with pressure-demand, full face piece SCBA (MSHA/NIOSH approved or equivalent) and full protective gear. Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

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SENSITIVE TO STATIC DISCHARGE: Likely to catch fire from near-by spark. Static charge may accumulate by flow or agitation. Grounding and bonding of containers is required.

SENSITIVITY TO IMPACT: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide may form when heated to decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on absorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed, thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. Only those persons who are adequately trained, authorized, and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up.

LARGE SPILL: Keep spectators away. Only those persons who are adequately trained, authorized and wearing the required personal protective equipment (PPE) should participate in spill response and clean-up. Ventilate the area by natural means or by explosion proof mechanical means (i.e. fans). Know and prepare for spill response before using or handling this product. Eliminate all ignition sources (flames, hot surfaces, portable heaters and sources of electrical, static, or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered and labeled metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools and appropriate PPE. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams, and groundwater with spilled material or used absorbent.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe vapors. Avoid contact with body. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Empty containers must not be washed and re-used for any purpose. Contact lens wearers must wear protective eye wear around chemical vapors and liquid. Wash hands thoroughly after handling. Flammable vapors may cause flash fire or ignite explosively. To prevent build-up of vapors, use adequate natural and/or mechanical ventilation (e.g. open all windows and doors to achieve cross ventilation). Containers may be hazardous when empty. Never use welding or cutting torch on or near container. Do not cut, drill, grind, or expose containers to heat, sparks, static electricity or other source of ignition. Explosion may occur causing injury or death.

HANDLING: Use adequate ventilation and appropriate respiratory protection to avoid breathing vapors when cover is removed. Ground and bond all equipment when handling flammable solvent-borne material.

STORAGE: Keep container closed when not in use. Store in a dry, well ventilated area, out of the sun and away from ignition sources. Do not remove or deface label. Prevent water or moist air from entering container.

STORAGE TEMPERATURE: 15.5°C (60°F) Minimum to 35°C (95°F) Maximum

SHELF LIFE: 1 year from manufacture date

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

| OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200) | | | | | |
|---|-------------|-----------------|-------------------------------|------------|---------------------------|
| | | EXPOSURE LIMITS | | | |
| | | OSHA PEL | | ACGIH TLV | |
| Chemical Name | | ppm | mg/m ³ | ppm | mg/m ³ |
| Methyl Acetate | TWA | 200 ppm | 610 | 200 ppm | 606 |
| | STEL | NL [1] | NL [1] | 250 ppm | 757 |
| Dimethyl Ether | TWA | NL [1] | NL [1] | NL [1] | NL [1] |
| | STEL | NL [1] | NL [1] | NL [1] | NL [1] |
| Hydrocarbon Propellant | TWA | 1000 ppm | 1800 mg/m ³ | 800 ppm | NL |
| | STEL | NL [1] | NL [1] | NL [1] | NL [1] |
| n-Hexane | TWA | 500 ppm [2] | 1800 mg/m ³ [2] | 50 ppm | 176 mg/m ³ |
| | STEL | NL [1] | NL [1] | NL [1] | NL [1] |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | TWA | 400 ppm | NL | 400 ppm | NL |
| | STEL | NL [1] | NL [1] | NL [1] | NL [1] |
| n-Heptane | TWA | 500 ppm [2] | 2000 mg/m ³ [2] | 400 ppm | 1640 mg/m ³ |
| | STEL | NL [1] | NL [1] | 500 ppm | 2050 mg/m ³ |
| Cyclohexane | TWA | 300 ppm [2] | 1050 mg/m ³ [2] | 100 ppm | 334 mg/m ³ |
| | STEL | NL [1] | NL [1] | NL [1] | NL [1] |
| Methanol | TWA | 200 ppm | 260 mg/m ³ | 200 ppm | 262 mg/m ³ |
| | STEL | NL [1] | NL [1] | 250 ppm | 327 mg/m ³ |

Footnotes:

1. NL = Not Listed
2. OSHA limits per 29 CFR 1910.1000 Table Z-1 & Z-2

ENGINEERING CONTROLS: Provide sufficient explosion proof mechanical (general and/or local exhaust) ventilation to maintain exposure below the occupational exposure limit and exposure concentration.

PERSONAL PROTECTIVE EQUIPMENT

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EYES AND FACE: Wear safety glasses with side shields (or goggles) or a full face respirator.

SKIN: Wear chemical protective clothing & boots to prevent repeated or prolonged skin contact. Wear impervious gloves, if needed, to prevent repeated or prolonged skin contact.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Wear chemical resistant gloves, such as butyl rubber.

WORK HYGIENIC PRACTICES: Use good hygiene practices when handling this material. Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Aerosol

ODOR: Solvent-like

ODOR THRESHOLD: Not Determined

COLOR: Clear

pH: Not Determined

PERCENT VOLATILE: 80.9

Notes: by weight

FLASHPOINT AND METHOD: -104°C (-156°F) CC

FLAMMABLE LIMITS: 0.6 to 16.0

AUTOIGNITION TEMPERATURE: (437°F) to (851°F)

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: Not Determined

BOILING POINT: -24.4°C (-12°F) to 56°C (133°F)

FREEZING POINT: Not Determined

MELTING POINT: Not Determined

POUR POINT: Not Determined

SOLUBILITY IN WATER: Not Determined

EVAPORATION RATE: > 1.0 (n-Butyl Acetate=1)

DENSITY: 6.18 lbs/gal

PARTICLE SIZE: Not Determined

SPECIFIC GRAVITY: 0.741

VISCOSITY: Not Determined

MOLECULAR WEIGHT: Not Determined

(VOC): 504.900 gr/L EPA Method 24 VOC

Notes: Photochemically Reactive Only VOC: 392.2 gr/L

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COEFF. OIL/WATER: Not Determined

OXIDIZING PROPERTIES: Not Determined

COMMENTS: 0.48 lb VHAP/lb Solid
 9.2% by weight HAP

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable.

POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID: Avoid heat, flames, sparks, static electricity and other sources of ignition.

POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide may form when heated to decomposition.

INCOMPATIBLE MATERIALS: Avoid contact with peroxides, oxidizing agents such as nitric acid, perchloric acid, chromium trioxide, chlorosulfonic acid, silica gel, alumina, and strong acids or amines.

11. TOXICOLOGICAL INFORMATION

ACUTE

| Chemical Name | ORAL LD ₅₀ (rat) | DERMAL LD ₅₀ (rabbit) | INHALATION LC ₅₀ (rat) |
|--|--------------------------------|-------------------------------------|--------------------------------------|
| Methyl Acetate | > 5000 mg/kg | > 5000 mg/kg | > 16000 ppm (4-hr dose) |
| Dimethyl Ether | No data | No data | 164000 ppm (4-hr dose) |
| Hydrocarbon Propellant | No data | No data | No data |
| n-Hexane | 25000 mg/kg | No data | 48000 ppm (4-hr dose) |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | > 2000 mg/kg | > 2000 mg/kg | > 5000 ppm (1-hr dose) |
| n-Heptane | > 15000 mg/kg | > 2001 mg/kg | 103000 mg/cub m (4- hr dose) |
| Cyclohexane | 29820 mg/kg | No data | No data |
| Methanol | No data | 12800 mg/kg (rabbits) | 64000 ppm (4-hr dose - rat) |

IRRITATION: Eyes, nose, throat, respiratory tract irritation.

12. ECOLOGICAL INFORMATION

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ENVIRONMENTAL DATA: This product contains components that will normally float on water. These components may be harmful to aquatic organisms and may cause long term adverse effects in the aquatic environment.

ECOTOXICOLOGICAL INFORMATION: Contains components that are potentially toxic to freshwater and saltwater ecosystems.

BIOACCUMULATION/ACCUMULATION: Contains components with the potential to bio-accumulate.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Limited Quantity (Ltd Qty)

NAERG: 115

MARINE POLLUTANT #1: None

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

Limited Quantity (Ltd Qty)

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes **PRESSURE GENERATING:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

EPCRA SECTION 313 SUPPLIER NOTIFICATION

| Chemical Name | Wt. % | CAS |
|---------------|--------|----------|
| n-Hexane | 7 - 13 | 110-54-3 |
| Cyclohexane | 1 - 5 | 110-82-7 |

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

| Chemical Name | Wt. % | CERCLA RQ |
|---------------|--------|------------|
| n-Hexane | 7 - 13 | 5,000 lbs. |
| Cyclohexane | 1 - 5 | 1,000 lbs. |
| Methanol | < 0.5 | 5,000 lbs. |

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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| Chemical Name | CAS | TSCA SECTION |
|---|------------|--------------|
| Methyl Acetate | 79-20-9 | |
| Dimethyl Ether | 115-10-6 | |
| Hydrocarbon Propellant | Mixture | |
| n-Hexane | 110-54-3 | |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | 64742-89-8 | |
| n-Heptane | 142-82-5 | 12b, |
| Cyclohexane | 110-82-7 | |
| Methanol | 67-56-1 | |

CLEAN AIR ACT

| Chemical Name | Wt. % | CAS |
|---------------|--------|----------|
| n-Hexane | 7 - 13 | 110-54-3 |
| Methanol | < 0.5 | 67-56-1 |

STATES WITH SPECIAL REQUIREMENTS

| Chemical Name | Requirements |
|---|--|
| Dimethyl Ether | New Jersey Right to Know List |
| Hydrocarbon Propellant | New Jersey Right to Know List Pennsylvania Right to Know List |
| n-Hexane | New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical |
| Low Boiling Point Naphtha - Solvent Naphtha (petroleum), Light Aliph. | Pennsylvania Right to Know List |
| n-Heptane | New Jersey Right to Know List Pennsylvania Right to Know List |
| Cyclohexane | New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical |
| Methanol | New Jersey Right to Know List Pennsylvania Right to Know List Massachusetts Toxic Use Reduction Act (TURA) Reportable Chemical |

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION

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Flammable
Gas



Compressed
Gas



Toxic

16. OTHER INFORMATION

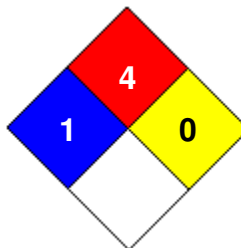
INFORMATION CONTACT: (781) 878-7015

REVISION SUMMARY: This MSDS replaces the 1/14/2014 MSDS. Revised: **Section 2:** .

HMIS RATING

| | | |
|----------------------------|---|----------|
| HEALTH | * | 1 |
| FLAMMABILITY | | 4 |
| PHYSICAL HAZARD | | 0 |
| PERSONAL PROTECTION | | B |

NFPA CODES



GENERAL STATEMENTS: Keep out of reach of children
 For professional or industrial use only

MANUFACTURER DISCLAIMER: This document may be used to comply with OSHA's Hazardous Communication Standard, 29 CFR 1910.1200.

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his/her evaluation of the product's hazards and safety precautions to be taken in its use. The data in this SDS relate only to the specific material designated herein. We do not assume liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

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