

SAFETY DATA SHEET

Date Issued : 4/17/2015
MSDS No : NGM
Date Revised : 4/17/2015
Revision No : 7

STA'-PUT 2001M Canister Adhesive

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STA'-PUT 2001M Canister 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:

Target Organ Toxicity (Single exposure), Category 3
 Aspiration Hazard, Category 1

Environmental:

Acute Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 1
 Liquefied Gases

GHS LABEL



Flame



Gas
cylinder



Health
hazard



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H224: Extremely flammable liquid and vapour.
 H280: Contains gas under pressure; may explode if heated.
 H304: May be fatal if swallowed and enters airways.
 H336: May cause drowsiness or dizziness.
 H401: Toxic to aquatic life.

PRECAUTIONARY STATEMENT(S)

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 P233: Keep container tightly closed.
 P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting equipment.
 P242: Use only non-sparking tools.
 P243: Take precautionary measures against static discharge.

SAFETY DATA SHEET

Date Issued : 4/17/2015
MSDS No : NGM
Date Revised : 4/17/2015
Revision No : 7

STA'-PUT 2001M Canister Adhesive

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P331: Do NOT induce vomiting.
 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.
 P403+P235: Store in a well-ventilated place. Keep cool.
 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. Vapor may cause flash fire and explosion. Contents under pressure. Harmful or fatal if swallowed. Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air. Vapors may cause dizziness, headache, nausea, drowsiness, unconsciousness and respiratory irritation. Can cause eye and skin irritation.

POTENTIAL HEALTH EFFECTS

EYES: May produce eye irritation with discomfort, tearing, or blurring of vision.

SKIN: Prolonged or repeated contact of liquid can cause irritation, defatting of skin, and dermatitis. Prolonged single exposure can result in a progressively severe burning sensation or redness.

INGESTION: Harmful or fatal if swallowed. Can cause gastrointestinal irritation with symptoms of nausea, vomiting and diarrhea.

INHALATION: Inhalation may cause nonspecific discomfort, such as nausea, headache, or weakness. Higher exposures may lead to temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness; or increased susceptibility to the cardiac arrhythmic effects of epinephrine.

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

TARGET ORGAN STATEMENT: Central Nervous System (CNS)

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

SAFETY DATA SHEET

Date Issued : 4/17/2015
MSDS No : NGM
Date Revised : 4/17/2015
Revision No : 7

STA'-PUT 2001M Canister Adhesive

Chemical Name	Wt.%	CAS
Dimethyl Ether	45 - 70	115-10-6
Isopentane	10 - 30	78-78-4

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.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes eye irritation.

SKIN: Mild to moderate skin irritant.

INGESTION: Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation.

INHALATION: 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.

CHRONIC EFFECTS: Dizziness, weakness, peripheral numbness and nervousness.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Class IA

GENERAL HAZARD: Extremely Flammable. Under Pressure.

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

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Aldehydes

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.

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

SAFETY DATA SHEET

Date Issued : 4/17/2015

MSDS No : NGM

Date Revised : 4/17/2015

Revision No : 7

STA'-PUT 2001M Canister Adhesive

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

SAFETY DATA SHEET

Date Issued : 4/17/2015
MSDS No : NGM
Date Revised : 4/17/2015
Revision No : 7

STA'-PUT 2001M Canister Adhesive

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Dimethyl Ether	TWA	NL [1]	NL [1]	NL [1]	NL [1]
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Isopentane	TWA	1000 ppm	2950 mg/m ³	600 ppm	1770 mg/m ³
	STEL	NL [1]	NL [1]	NL [1]	NL [1]
Footnotes: 1. NL = Not Listed					

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

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 nitrile 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 THRESHOLD: Not Determined

COLOR: Clear

pH: Not Determined

PERCENT VOLATILE: 75.7

Notes: by weight

FLASHPOINT AND METHOD: -41°C (-41.8°F) to -51°C (-59.8°F)

FLAMMABLE LIMITS: 1.8 to 18.0

AUTOIGNITION TEMPERATURE: (662°F) to (788°F)

SAFETY DATA SHEET

Date Issued : 4/17/2015
MSDS No : NGM
Date Revised : 4/17/2015
Revision No : 7

STA'-PUT 2001M Canister Adhesive

VAPOR PRESSURE: Not Determined
VAPOR DENSITY: Not Determined
BOILING POINT: -25°C (-13°F) to 27.8°C (82.1°F)
FREEZING POINT: Not Determined
MELTING POINT: Not Determined
POUR POINT: Not Determined
SOLUBILITY IN WATER: Slight
EVAPORATION RATE: > 1.0 (n-Butyl Acetate=1)
DENSITY: 5.87 lbs/gal
SPECIFIC GRAVITY: 0.704
VISCOSITY: Not Determined
(VOC): 533.100 gr/L EPA Method 24 VOC
Notes: Photochemically Reactive Only VOC: 533.1 gr/L
COEFF. OIL/WATER: Not Determined
OXIDIZING PROPERTIES: Not Determined
COMMENTS: 0 lb VHAP/lb Solid
 0% by weight HAP

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable.
POLYMERIZATION: Product will not undergo polymerization.
CONDITIONS TO AVOID: Avoid fire, sparks, static electricity and hot surfaces.
POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide may form when heated to decomposition.
INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong acids and strong bases.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Dimethyl Ether	No data	No data	164000 ppm (4-hr dose)
Isopentane	No data	No data	No data

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

12. ECOLOGICAL INFORMATION

SAFETY DATA SHEET

Date Issued : 4/17/2015
MSDS No : NGM
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Revision No : 7

STA'-PUT 2001M Canister Adhesive

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: Liquified Gas, Flammable, N.O.S.

PRIMARY HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: 3161

PACKING GROUP: NA

NAERG: 115

MARINE POLLUTANT #1: None

OTHER SHIPPING INFORMATION: contains (Dimethyl Ether, Isopentane)

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Flammable
Gas

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Dimethyl Ether	115-10-6
Isopentane	78-78-4

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Dimethyl Ether	New Jersey Right to Know List
Isopentane	Pennsylvania Right to Know List Massachusetts Right to Know List

SAFETY DATA SHEET

Date Issued : 4/17/2015
MSDS No : NGM
Date Revised : 4/17/2015
Revision No : 7

STA'-PUT 2001M Canister Adhesive

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Flammable
Gas



Toxic



Compressed
Gas

16. OTHER INFORMATION

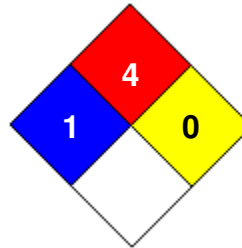
INFORMATION CONTACT: (781) 878-7015

REVISION SUMMARY: This MSDS replaces the 11/14/2014 MSDS. Revised: **Section 1:** Date Issued.

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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