

**TraSys<sup>®</sup> 817**

Version 2.0

Revision Date 02/03/2014

Ref. 130000115942

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	TraSys <sup>®</sup> 817
MSDS Number	:	130000115942
Manufacturer	:	Stoner Incorporated 1070 Robert Fulton Hwy. Quarryville, PA 17566 United States
Product Information	:	1-800-227-5538 (outside the U.S. 1-717-786-7355)
Emergency & Transport Information	:	CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-741-5970)
Other information	:	professional use

**SECTION 2. HAZARDS IDENTIFICATION**

## Emergency Overview

The hazards of this product are associated mainly with its processing. Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema). Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

## Potential Health Effects

Skin	:	May cause skin irritation.
Eyes	:	Contact with eyes may cause irritation.
Inhalation	:	The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Repeated episodes of polymer fume fever may result in persistent lung effects.
Target Organs	:	Respiratory Tract, Liver

## Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

# Material Safety Data Sheet

## **TraSys® 817**

Version 2.0

Ref. 130000115942

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	95 - 98 %
Polytetrafluoroethylene	9002-84-0	1 - 3 %
Partially fluorinated alcohol, reaction products with phosphorous oxide (P2O5), ammonium salts		<0.3 %

### SECTION 4. FIRST AID MEASURES

- Skin contact : If on skin, rinse well with water. Wash contaminated clothing before re-use. Consult a physician if necessary.
- Eye contact : Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Symptoms may be delayed. Consult a physician.
- Ingestion : DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a physician.
- General advice : When symptoms persist or in all cases of doubt seek medical advice.

### SECTION 5. FIREFIGHTING MEASURES

- Flammable Properties
- Flash point : does not flash
- Thermal decomposition : 300 °C (572 °F)

# Material Safety Data Sheet

## **TraSys<sup>®</sup> 817**

Version 2.0

Ref. 130000115942

- Fire and Explosion Hazard : In fire conditions, toxic decomposition products may be formed. (see also section 10) Hazardous combustion products: toxic or irritating hydrogen fluoride Carbon monoxide
- Suitable extinguishing media : The product itself does not burn.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Firefighting Instructions : Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.  
Evacuate personnel to safe areas.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Ventilate spill area.
- Spill Cleanup : Dike spill. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Avoid subsoil penetration.

### **SECTION 7. HANDLING AND STORAGE**

- Handling (Personnel) : Do not breathe vapours or spray mist. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use.  
Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.
- Storage : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Do not freeze. Perishable if frozen.

# Material Safety Data Sheet

## **TraSys<sup>®</sup> 817**

Version 2.0

Ref. 130000115942

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls : Use only with adequate ventilation. Do not aerosolize. Do not generate respirable particles unless suitable ventilation or respirator are used. In spray applications, use airless type pressure spray equipment at less than 60 psi, and exhaust ducts, drip pans, or other design features to minimize worker exposure to mists and over-spray.

Personal protective equipment  
Respiratory protection : Provide adequate ventilation.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection : Material: Impervious gloves

Eye protection : Safety goggles

Skin and body protection : Preventive skin protection  
Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

#### Exposure Guidelines

##### Exposure Limit Values

##### Polytetrafluoroethylene

AEL \* (DUPONT) 10 mg/m3 8 hr. TWA Total dust.

AEL \* (DUPONT) 5 mg/m3 8 hr. TWA Respirable dust.

##### Propan-2-ol

PEL: (OSHA) 400 ppm 980 mg/m3 8 hr. TWA

TLV (ACGIH) 200 ppm TWA

TLV (ACGIH) 400 ppm STEL

AEL \* (DUPONT) 200 ppm 8 & 12 hr. TWA

# Material Safety Data Sheet

## **TraSys<sup>®</sup> 817**

Version 2.0

Ref. 130000115942

Ethylene thiourea AEL *	(DUPONT)	0.2 ppm	Average Urinary Acceptable Level.
AEL *	(DUPONT)	0.4 ppm	
		Remarks	Limit for a single urinary sample, requires follow-up action.

### Biological Exposure Indices

Propan-2-ol BEI	(ACGIH)	40 mg/l Acetone/Urine Sampling time: End of shift at end of work week.
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\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Color	: white
Odor	: slight, alcohol-like
pH	: ca. 7
Freezing point	: 0 °C (32 °F)
Boiling point	: 100 °C (212 °F)
Specific gravity	: 1

### SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable under recommended storage conditions.
Conditions to avoid	: Decomposition temperature 300 °C (572 °F) Decomposes on heating.
Incompatibility	: Incompatible with oxidizing agents. Alkali metals, Alkaline earth metals, molecular sieves

# Material Safety Data Sheet

## **TraSys<sup>®</sup> 817**

Version 2.0

Ref. 130000115942

Hazardous decomposition products : Hazardous thermal decomposition products:, Fluorinated compounds, Carbon oxides

Hazardous reactions : Polymerization will not occur.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Polytetrafluoroethylene

Oral LD50 : > 11,280 mg/kg , rat

Skin irritation : No skin irritation, rabbit

No skin irritation, human

Skin sensitization : Does not cause skin sensitization., human  
Patch test on human volunteers did not demonstrate sensitization properties.

Repeated dose toxicity : Oral - feed  
rat

No toxicologically significant effects were found.

Further information : The substance is a polymer and is not expected to produce toxic effects.

Partially fluorinated alcohol, reaction products with phosphorous oxide (P2O5), ammonium salts

Dermal LD50 : > 5,000 mg/kg , rat

Oral LD50 : > 5,000 mg/kg , rat

Inhalation 4 h ALC -  
Approximate Lethal  
Concentration : 0.047 mg/l , rat  
Target Organs: Respiratory Tract  
Irritating to respiratory system.

Inhalation 4 h Acute  
toxicity estimate : 0.005 mg/l , rat  
Target Organs: Respiratory Tract  
Irritating to respiratory system.

Inhalation 4 h No  
Observed Adverse Effect : 0.001 mg/l , rat  
Target Organs: Respiratory Tract

# Material Safety Data Sheet

## **TraSys<sup>®</sup> 817**

Version 2.0

Ref. 130000115942

Concentration (NOAEC)	Irritating to respiratory system.
Skin irritation	: No skin irritation, rabbit
Eye irritation	: slight irritation, rabbit
Skin sensitization	: Did not cause sensitization on laboratory animals., mouse
Repeated dose toxicity	: Oral - gavage rat  No toxicologically significant effects were found.  Oral - gavage rat  Target Organs: Liver Liver effects, Thyroid effects, Kidney effects, altered hematology, Weight loss, Reduced body weight gain, Information given is based on data obtained from similar product.  Inhalation rat  Respiratory tract irritation, lung effects, Information given is based on data obtained from similar product.  Dermal rat  Liver effects, altered blood chemistry, Information given is based on data obtained from similar product.
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity. Information given is based on data obtained from similar product.
Teratogenicity	: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. Information given is based on data obtained from similar product.

# Material Safety Data Sheet

## **TraSys® 817**

Version 2.0

Ref. 130000115942

Further information : Information given is based on data obtained from similar substances.

### **SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity  
Polytetrafluoroethylene

: The substance is a polymer and is not expected to produce toxic effects.

Partially fluorinated alcohol, reaction products with phosphorous oxide (P2O5), ammonium salts

96 h LC50 : Pimephales promelas (fathead minnow) > 120 mg/l

96 h LC50 : Rare Gudgeon (Gobiocypris Rarus) > 150 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 120 mg/l

48 h EC50 : Daphnia magna (Water flea) 16.2 mg/l

21 d : NOEC Daphnia magna (Water flea) 0.409 mg/l

21 d : NOEC Daphnia magna (Water flea) 0.0467 mg/l

Environmental Fate

Partially fluorinated alcohol, reaction products with phosphorous oxide (P2O5), ammonium salts

Biodegradability : Not inherently biodegradable.  
This product was tested following the OECD 302C (Inherent Biodegradability) test guideline. The product was not inherently biodegradable according to the test guideline endpoint criteria.

Bioaccumulation : Bioaccumulation is unlikely.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

# Material Safety Data Sheet

## **TraSys® 817**

Version 2.0

Ref. 130000115942

Waste Disposal : In accordance with local and national regulations.  
Environmental Hazards : If recycling is not practicable, dispose of in compliance with local regulations.

### **SECTION 14. TRANSPORT INFORMATION**

### **SECTION 15. REGULATORY INFORMATION**

TSCA : Listed  
This material contains one or more substances which are subject to a TSCA Section 5 Consent Order or Significant New Use Rule (SNUR).

: Partially fluorinated alcohol, reaction products with phosphorous oxide (P2O5), ammonium salts  
PMN Number: P-09-0245

This material shall not be distributed to consumers for use in spray applications except in water-based coatings where the maximum concentration of the PMN substance (P-09-245) does not exceed 0.1 wt percent.

SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Title III hazard classification : Acute Health Hazard: Yes  
Chronic Health Hazard: No  
Fire: No  
Reactivity/Physical hazard: No  
Pressure: No

# Material Safety Data Sheet

## **TraSys<sup>®</sup> 817**

Version 2.0

Ref. 130000115942

PA Right to Know : Substances on the Pennsylvania Hazardous Substances List present at  
Regulated Chemical(s) a concentration of 1% or more (0.01% for Special Hazardous  
Substances): Polytetrafluoroethylene

### **SECTION 16. OTHER INFORMATION**

#### HMIS

Health	:	1
Flammability	:	0
Reactivity/Physical hazard	:	0
PPE	:	Personal Protection rating to be supplied by user depending on use conditions.

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Contact person : MSDS Coordinator, Stoner Incorporated, 1070 Robert Fulton Hwy,  
Quarryville PA, 17566, 1 800-227-5538

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