



A CSW Industrials Company

# SAFETY DATA SHEET

## TURBO-KLEEN™

Chemically cleans & mechanically scrubs

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name  
Turbo-Kleen™ A/C System Flush

Product Codes  
82400, 82450, 82500, 82501

Chemical Family  
Organic

Use  
Cleaner and degreaser

Manufacturer's Name  
RectorSeal, LLC  
2601 Spenwick Drive  
Houston, Texas 77055 USA

Date of Validation  
March 25, 2019

Date of Preparation  
March 25, 2019

HMIS Codes  
Health 0  
Flammability 2  
Reactivity 0  
PPI B

Emergency Telephone No.  
Chemtrec 24 Hours  
(800)-424-9300 USA  
(703)-527-3887 International

Technical Service Telephone No.  
(800)-231-3345 or (713)-263-8001

### SECTION 2 – HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### OSHA Hazards

Flammable Liquid

##### Target Organs

Non Classified

#### GHS CLASSIFICATION Physical

##### Hazards:

Flammable Liquid, Category 3, H226

##### Health Hazards

##### Acute Toxicity:

- Oral: Not Classified
- Dermal: Not Classified
- Inhalation: Not Classified
- Skin Corrosion/Irritation: Not Classified
- Serious Eye Damage/Eye Irritation: Not Classified
- Skin Sensitization: Not Classified

Respiratory Sensitization: Not Classified  
Germ Cell Mutagenicity: Not Classified  
Carcinogenicity: See Section 11  
Reproductive Toxicology: Not Classified  
Target Organ Systemic Toxicity - Single Exposure: Not Classified  
Target Organ Systemic Toxicity - Repeated Exposure: Not Classified

Aspiration Toxicity: Not Classified

## GHS Label elements, including precautionary statements



GHS02: Flammable  
Signal Word: **Warning**

Hazard Statements:

H226 Flammable liquid and vapour.

Precautionary Statements:

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.

P280 Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

## Summary Of Acute Hazards

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratory tract and to other mucous membranes.

## Route Of Exposure, Signs And Symptoms

### INHALATION

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratory tract and to other mucous membranes.

### EYE CONTACT

Severely irritating. If not removed promptly, will injure eye tissue, which can result in permanent damage.

### SKIN CONTACT

Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity.

### INGESTION

Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

**SUMMARY OF CHRONIC HAZARDS**

Repeated or prolonged exposure may cause signs of central nervous system depression and respiratory irritation. This material has been shown to induce tumors in laboratory animals.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

|                       |                                 |
|-----------------------|---------------------------------|
| <b>Ingredient:</b>    | 2-Methoxy-1-methylethyl acetate |
| Percentage By Weight: | 90-100                          |
| CAS Number:           | 108-65-6                        |
| EC#:                  | 607-195-00-7                    |

**SECTION 4 – FIRST AID MEASURES**

|               |   |
|---------------|---|
| If inhaled:   | If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential. |
| If on skin:   | Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing.   |
| If in eyes:   | Immediately flush with large amounts of water for at least 15 minutes. Get prompt medical attention.  |
| If swallowed: | If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.   |

**SECTION 5 – FIRE FIGHTING MEASURES****Conditions Of Flammability**

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide(CO<sub>2</sub>).

**Special Fire Fighting Procedures:** Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous Combustion Products**

Hazardous decomposition products formed under fire conditions: Carbon oxides.

**Further Information**

Use water spray to cool unopened containers.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Use absorbent materials to prevent footing hazard and to contain. Ventilate area with forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

## SECTION 7 – HANDLING AND STORAGE

**Precautions To Be Taken In Handling And Storing:** Avoid breathing high vapor concentrations. Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed. Store away from heat and light.

**Other Precautions:** Keep away from heat and flame. Keep from contact with oxidizing materials. Minimize exposure to air. After opening, purge container with nitrogen before reclosing. Do not distill to near dryness. If peroxide formation is suspected, do not open or move container. Addition of water or appropriate reducing materials will lessen peroxide formation.

KEEP OUT OF REACH OF CHILDREN.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredient                             | Units   |
|--|---------|
| <b>2-Methoxy-1-methylethyl acetate</b> |         |
| WEEL TWA:                              | 50 ppm  |
| OSHA PEL:                              | N/D ppm |

**Respiratory Protection (Specify Type):** In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirator.

**Ventilation – Local Exhaust:** Acceptable

**Special:** Explosion proof

**Mechanical (General):** Acceptable

**Other:** N/A

**Protective Gloves:** Wear rubber gloves.

**Eye Protection:** Safety glasses (ANSI Z-87.1 or equivalent)

**Other Protective Clothing Or Equipment:** Chemical resistant coveralls recommended.

**Work/Hygienic Practices:** Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

|  |                               |
|--|-------------------------------|
| Boiling point:                           | 302°F (150°C) @ 760 mm Hg     |
| Specific gravity (H <sub>2</sub> O = 1): | 0.969                         |
| Vapor pressure (mmHg):                   | 4.9 mm Hg @ 68°F (20°C)       |
| Melting point:                           | N/A                           |
| Vapor Density (Air = 1):                 | 4.6                           |
| Evaporation rate (Ethyl Acetate = 1):    | 0.39                          |
| Appearance/Odor:                         | Colorless to clear/Sweet odor |
| Solubility in water:                     | Appreciable                   |

|   |                  |
|---|------------------|
| Volatile Organic Compounds (VOC) Content<br>(theoretical percentage by weight): | 96.9% or 969 g/L |
| Flash point:  | 115°F (46°C)     |
| Lower explosion limit:  | N/D              |
| Upper explosion limit:  | N/D              |

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions To Avoid:** Extended contact with air or oxygen. The potential for peroxide formation is enhanced when these solvents are used in processes such as distillation. Heat, sparks, open flame, other ignition sources, and oxidizing conditions. Ignition may occur at temperatures below those published in the literature as autoignition or ignition temperatures.

**Incompatibility (Materials To Avoid):** May react with oxygen to form peroxides. However, there is no known evidence that it has nearly the peroxide forming potential as, for example, diethyl ether, etc. Dehydrating agents. Strong oxidizing agents.

**Hazardous Decomposition Products:** Incomplete combustion carbon monoxide, carbon dioxide and other toxic gases.

**Hazardous Polymerization:** Not expected to occur.

## SECTION 11 – TOXICOLOGY INFORMATION

### Chronic Health Hazards

No ingredient in this product is an IARC, NTP or OSHA Listed carcinogen.

Toxicology Data

Ingredient Name

#### Propylene glycol monomethyl ether acetate

|                      |                  |
|----------------------|------------------|
| Oral-Rat LD50:       | > 10,000 mg/kg   |
| Inhalation-Rat LC50: | 6 hr: > 4345 ppm |

## SECTION 12 – ECOLOGICAL INFORMATION

### Ecological Data

Ingredient Name: **Propylene glycol monomethyl ether acetate**

#### Oxygen Demand Data

|         |            |
|---------|------------|
| BOD-5:  | 363 mg/g   |
| BOD-20: | 1,050 mg/g |

#### Acute Aquatic Effects Data

|                              |          |
|------------------------------|----------|
| 96 h LC-50 (fathead minnow): | 161 mg/L |
| 48 h LC-50 (daphnid):        | 408 mg/L |

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste Classification:** RCRA classified hazardous waste. Dispose of absorbed materials and liquid waste in approved, controlled incineration facility in accordance with all local, state and federal regulations.

**Disposal Method:** Incineration.

**SECTION 14 – TRANSPORTATION INFORMATION**

DOT: UN1993, Flammable liquids, n.o.s. (Propylene Glycol Ethers), Class 3, UN1993, PG III, Limited Quantities or Ltd Qty, ERG#128  
 Gallons and less: Consumer Commodity ORM-D

Ocean (IMDG): Gallons and less: UN1993, Flammable liquids, n.o.s. (Propylene Glycol Ethers), Class 3, PG III, Limited Quantities or Ltd Qty, EMS-No: F-E, S-D

Air (IATA): UN1993, Flammable liquids, n.o.s. (Propylene Glycol Ethers), Class 3, PG III, Limited Quantities or Ltd Qty, ERG#128

**SECTION 15 – REGULATORY INFORMATION**

**Regulatory Data**

|                  |  |
|------------------|--|
| Ingredient Name: | <b>Propylene glycol monomethyl ether acetate</b> |
| SARA 313         | No   |
| TSCA Inventory   | Yes  |
| CERCLA RQ        | N/A  |
| RCRA Code        | N/A  |

**SECTION 16 – OTHER INFORMATION**

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001