SAFETY DATA SHEET

ZIPP™

Quick-drying degreaser

Section 1 – Product and Company Information

Product Name
Zipp™

Product Codes
82642

Chemical Family
Organic

Use
Cleaner and degreaser

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

Date of Validation
March 7, 2017

Date of Preparation
March 7, 2017

HMIS Codes

Health	2
Flammability	0
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
Carcinogen, Target Organ Effect, Harmful by ingestion., Irritant

Target Organs
Liver, pancreas, Blood, Central nervous system, Heart, Kidney

GHS Classification

Acute toxicity, Oral (Category 5)
Skin irritation (Category 2)
Eye irritation (Category 2B)
Carcinogenicity (Category 2)

GHS Label elements, including precautionary statements

GHS04: Compressed Gas Cylinder
GHS07: Exclamation Mark
GHS08: Health Hazard
Signal Word: **Warning**

Hazard statement(s)
H302 - Harmful if swallowed.
H315 + H320 - Causes skin and eye irritation.
H351 - Suspected of causing cancer.
H401 - Toxic to aquatic life.

Precautionary statement(s)
P281 - Use personal protective equipment as required.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Summary Of Acute Hazards

Repeated inhalation may cause dizziness, nausea and CNS effects. May cause severe eye and skin irritation.

Route Of Exposure, Signs And Symptoms

INHALATION
Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

EYE CONTACT
Contact with eyes may cause severe irritation.

SKIN CONTACT
Irritation and drying.

INGESTION
May cause irritation of the digestive tract. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

SUMMARY OF CHRONIC HAZARDS
Skin irritation, contact dermatitis, and defatting.

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

Ingredient:	Tetrachloroethylene
Percentage By Weight:	92
CAS Number:	127-18-4
EC#:	204-825-9
Ingredient:	Methylene Chloride
Percentage By Weight:	5
CAS Number:	75-09-2
EC#:	200-838-9

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 wash with soap and water. Remove and wash any contaminated clothing.
If in eyes:	Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.
If swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Section 5 – Fire Fighting Measures

Extinguishing Media

Foam, dry chemical, CO_2, or water fog.

Special Fire Fighting Procedures: Wear self-contained full face piece breathing apparatus and full body protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate area. Dike area as run-off may create additional environmental contamination.

Unusual Fire And Explosion Hazards: Aerosol cans are under pressure– exposure to temperatures above 120°F (48°C) can cause bursting or "rocketing" of cans.

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: Shake well before using. Keep away from heat and open flames. Prolonged exposure to direct sunshine or storage above 120°F (48°C) may cause can to burst. Do not puncture or incinerate can.

Other Precautions: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions.

KEEP OUT OF REACH OF CHILDREN.

Section 8 – Exposure Controls/Personal Protection

Ingredient	Units
Tetrachloroethylene	
ACGIH TLV:	50 ppm
OSHA PEL:	100 ppm
Methylene Chloride	
ACGIH TLV:	50 ppm
OSHA PEL:	25 ppm
OSHA STEL:	125 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:	104°F (40°C) @ 760mm Hg
Specific gravity (H20 = 1):	1.27
Vapor pressure (mmHg):	350 mm Hg @ 68°F (20°C)
Melting point:	N/A
Vapor Density (Air = 1):	2.9
Evaporation rate (Ethyl Acetate = 1):	> 1
Appearance/Odor:	Clear liquid/Mild odor
Solubility in water:	Insoluble
Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):	0% or 0 g/L (VOC Exempt)
Flash point:	None
Lower explosion limit:	N/D
Upper explosion limit:	N/D
Aerosol flame extension:	Negative

Section 10 – Stability and Reactivity

Stability: Stable

Conditions To Avoid: Do not store in temperatures above 120°F (48°C).

Incompatibility (Materials To Avoid): Oxidizers, acids and bases.

Hazardous Decomposition Products: CO, CO_2, and fragmented hydrocarbons.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicology Information

Chronic Health Hazards

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

Methylene chloride has been shown to cause cancer in certain laboratory animals. Risk to your health depends on level and duration of exposure.
IARC: 2A - Group 2A: Probably carcinogenic to humans (Tetrachloroethylene)
NTP: Reasonably anticipated to be a human carcinogen (Tetrachloroethylene)

Toxicology Data

Ingredient Name

Tetrachloroethylene

Oral-Rat LD50:	2629 mg/kg
Inhalation-Rat LC50:	34,200 mg/m3/8H

Toxicology Data (cont.)

Methylene Chloride

Oral-Rat LD50:	1600 mg/kg
Inhalation-Rat LC50:	88,000 mg/m3/30M

Section 12 – Ecological Information

Ecological Data

Ingredient Name:	**Tetrachloroethylene**
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/A
BOD	None
Aquatic Toxicity	N/A

Ingredient Name:	**Methylene Chloride**
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/A
BOD	N/A
Aquatic Toxicity	N/A

Section 13 – Disposal Considerations

Waste Classification: Aerosols

Disposal Method: Empty containers can be disposed of in trash. Full containers should be depressurized to separate liquid phase. The liquid phase is considered a U210 and U080 hazardous waste and should be incinerated. Dispose of all liquid waste in accordance with all local, state and federal regulations.

Section 14 – Transportation Information

DOT:	Limited Quantity or Ltd Qty
Ocean (IMDG):	UN1950, Aerosols, Class 2.2, Limited Quantity or LTD-QTY, EMS-No: F-A, S-A
Air (IATA):	UN1950, Aerosols, Class 2.2, ERG#126

Section 15 – Regulatory Information

Regulatory Data

Ingredient Name:	**Tetrachloroethylene**
SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	100 lbs.
RCRA Code	U210

Ingredient Name:	**Methylene Chloride**
SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	1,000 lbs.
RCRA Code	U080

California Proposition 65

This product contains tetrachloroethylene and methylene chloride known to the state of California to cause cancer and/or birth defects or reproductive harm.

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