SDS # Z0099

SAFETY DATA SHEET

SDS 0469

______ Section 1 -- PRODUCT AND COMPANY IDENTIFICATION HMIS CODES PRODUCT NAME Health Flammability Zipp II Reactivity PRODUCT CODES 82645 CHEMICAL FAMILY Organic USE Cleaner & Degreaser MANUFACTURER'S NAME EMERGENCY TELEPHONE NO. The RectorSeal Corporation Chemtrec 24 Hours 2601 Spenwick Drive (800)424-9300 USA Houston, Texas 77055 USA (703)527-3887 International DATE OF VALIDATION TECHNICAL SERVICE TELEPHONE NO. April 1, 2015 (800)231-3345 or (713)263-8001 DATE OF PREPARATION April 1, 2015 ______ Section 2 -- HAZARDS IDENTIFICATION GHS Classification Skin irritation (Category 2) Eye irritation (Category 2A) Reproductive toxicity (Category 1B) Specific target organ toxicity - single exposure (Category 2) Specific target organ toxicity - single exposure (Category 3) Acute aquatic toxicity (Category 3) Chronic aquatic toxicity (Category 3) GHS Label elements, including precautionary Pictogram: GHS08 Health hazard, GHS07 Exclamation mark, GHS04 Gas Cylinder Signal Word: Warning Hazard statement(s) H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 + H336 May cause respiratory irritation, and drowsiness or dizziness. H360 - May damage fertility or the unborn child. H371 - May cause damage to organs. H412 - Harmful to aquatic life with long lasting effects. Precautionary statement(s) P201 - Obtain special instructions before use. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P273 - Avoid release to the environment. 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. ______ SUMMARY OF ACUTE HAZARDS severe eye and skin irritation.

Repeated inhalation may cause dizziness, nausea and CNS effects. May cause

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: Propyl bromide PERCENTAGE BY WEIGHT: >94 CAS NUMBER: 106-94-5

CAS NUMBER: 106-94-5 EC# : 203-445-0

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

EXTINGUSING MEDIA

Foam, dry chemical, CO2, 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 120F 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.

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 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.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT UNITS

Propyl bromide

ACGIH TLV 10 ppm OSHA PEL N/D

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______
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
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
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BOILING POINT:
                               160 F (71 C)@ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):
                                1.33
VAPOR PRESSURE (mm Hg):
                                139 mm HG @ 20 C
MELTING POINT:
                                N/A
VAPOR DENSITY (AIR = 1):
EVAPORATION RATE (ETHYL ACETATE = 1): >1
                                Clear Liquid / Mild Odor
APPEARANCE/ODOR:
SOLUBILITY IN WATER:
                                Moderately soluble in water
AEROSOL FLAME EXTENSION:
                                Negative
NFPA AEROSOL LEVEL:
FLASH POINT
                                None
Flammable/Explosion limits
% by volume in air):
                                4.0 - 8.0
Auto ignition temperature:
                                490*C for n-propyl bromide
VOLATILE ORGANIC COMPOUNDS(VOC)Content
(Theoretical Percentage By Weight): <100% or <1000 g/L
______
        Section 10 -- STABILITY AND REACTIVITY
STABILITY: Stable
CONDITIONS TO AVOID: Do not store in temperatures above 120 F.
INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, 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.
TOXICOLOGY DATA
Ingredient Name
  Propyl bromide
              Oral-Rat LDLo:4000 mg/kg
              Inhalation-Rat LC50:253,000 mg/m3/30M
______
       Section 12 -- Ecological Information
______
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 67.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates
EC50 - Daphnia magna (Water flea) - 208.9 mg/l - 48 h
Persistence and degradability
Biodegradability Result: 19.20 % - Not readily biodegradable.
Bioaccumulative potential: no data available
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects:
An environmental hazard cannot be excluded in the event of unprofessional
handling or disposal.
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Harmful to aquatic life with long lasting effects.

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. Dispose of all liquid waste in accordance with all local, state and federal regulations.

Section 14 -- TRANSPORTATION INFORMATION

DOT: UN1950, Aerosols, Class 2.2, ERG#126

OCEAN (IMDG): UN1950, Aerosols, Class 2, Limited Quantity or Ltd Qty

AIR (IATA): UN1950, Aerosols, Class 2.2, ERG#126

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA Ingredient Name

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Trade Secret

SARA 313 No
TSCA Inventory Yes
CERCLA RQ N/A
RCRA Code N/A

CALIFORNIA PROPOSITION 65

This product contains a chemical known to the state of California to cause 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

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MATERIAL SAFETY DATA SHEET

MSDS 0469

Section 1 -- PRODUCT AND COMPANY

IDENTIFICATION

	HMIS CODES	
PRODUCT NAME	Health	2
Zipp II	Flammability	0
	Reactivity	0
PRODUCT CODES	PPI	В

82645

CHEMICAL FAMILY

Organic

USE

Cleaner & Degreaser

MANUFACTURER'S NAME EMERGENCY TELEPHONE NO.

The RectorSeal Corporation Chemtrec 24 Hours 2601 Spenwick Drive (800) 424-9300

Houston, Texas 77055 USA

VALIDATION DATE TECHNICAL SERVICE TELEPHONE NO.

August 23, 2006 (800) 231-3345

REVISION DATE

August 23, 2006

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT CAS No. INGREDIENT UNITS

-- Trade Secret

ACGIH TLV 10 PPM

OSHA PEL N/D

Section 3 -- HAZARDS IDENTIFICATION

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.

TNGESTION

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	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

FLASH POINT LEL UEL None N/D N/D

Negative Flame Extension, (NFPA) Level 1 Aerosol

EXTINGUSING MEDIA

Foam, dry chemical, CO2, 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 120F 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 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.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

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: 160 F (71 C)@ 760mm Hg

SPECIFIC GRAVITY (H20 = 1): 1.33

VAPOR PRESSURE (mm Hg): 139 mm HG @ 20 C

MELTING POINT: N/Z
VAPOR DENSITY (AIR = 1): >1

EVAPORATION RATE (ETHYL ACETATE = 1): >1

APPEARANCE/ODOR: Clear Liquid / Mild Odor SOLUBILITY IN WATER: Moderately soluble in water

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Do not store in temperatures above 120 F.

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, 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. TOXICOLOGY DATA Ingredient Name Trade Secret Oral-Rat LDLo: 4000 mg/kg Inhalation-Rat LC50:253,000 mg/m3/30M ______ Section 12 -- Ecological Information ECOLOGICAL DATA Ingredient Name Trade Secret Food Chain Concentration Potential N/DWATERFOWL TOXICITY N/D BOD N/DAQUATIC TOXICITY N/D 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. Dispose of all liquid waste in accordance with all local, state and federal regulations. ______ Section 14 -- TRANSPORTATION INFORMATION DOT: Aerosols, Class 2.2, UN 1950, ERG#126 OCEAN (IMDG): Aerosols, Class 2.2, UN 1950, IMDG#2102, EMS#2-13 AIR (IATA): Aerosols, Class 2.2, UN 1950, ERG#126 WHMIS (CANADA): Class A, (Class D Division 1, Subdivision B) ______ Section 15 -- REGULATORY INFORMATION REGULATORY DATA Ingredient Name Trade Secret SARA 313 No TSCA Inventory Yes CERCLA RQ N/AN/A RCRA Code

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