



SAFETY DATA SHEET

RECTORSEAL® COLD GALVANIZING SPRAY

Protection of hot-dip galvanizing

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name
RectorSeal® Cold Galvanizing Spray

Product Codes
86625

Chemical Family
Organic

Use
Metal coating

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

Date of Validation
May 11, 2015

Date of Preparation
May 11, 2015

HMIS Codes
Health 2
Flammability 3
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 gas, Compressed Gas, Target Organ Effect, Irritant

Target Organs

Liver, Kidney, Bladder, Brain.

GHS CLASSIFICATION

Physical Hazards:

Flammable gases (Category 1)
Gases under pressure (Liquefied gas)

Health Hazards

Acute toxicity, Inhalation (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)

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Reproductive toxicity (Category 2)
Specific target organ toxicity - single exposure (Category 2)
Specific target organ toxicity - single exposure (Category 3)
Aspiration hazard (Category 1)
Acute aquatic toxicity (Category 2)

GHS Label elements, including precautionary statements



GHS02: Flammable
GHS04: Compressed Gas Cylinder
GHS08: Severe Health Hazards
Signal Word: **Danger**

Hazard Statements:

H220 - Extremely flammable gas.
H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging fertility or the unborn child.
H371 - May cause damage to organs.
H401 - Toxic to aquatic life.

Precautionary Statements:

P102 - Keep out of reach of children.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P281 - Use personal protective equipment as required.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331 - Do NOT induce vomiting.

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.

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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: Propane

Percentage By Weight: ---

CAS Number: 68476-85-7

EC#: 200-827-9

Ingredient: Toluene

Percentage By Weight: 20 Maximum

CAS Number: 108-88-3

EC#: 203-625-9

Ingredient: Xylene

Percentage By Weight: 10 Maximum

CAS Number: 1330-20-7

EC#: 203-576-3

Ingredient: Piperonyl Butoxide

Percentage By Weight: 40 Maximum

CAS Number: 7440-66-6

EC#: 231-175-3

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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, 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 120°F 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.

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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Units
Propane	
ACGIH TLV:	1000 ppm
OSHA PEL:	1000 ppm
Toluene	
ACGIH TLV:	50 ppm
OSHA PEL:	100 ppm
Xylene	
ACGIH TLV:	100 ppm
OSHA PEL:	100 ppm
Zinc Dust	
ACGIH TLV:	10 mg/m ³
OSHA PEL:	15 mg/m ³
OSHA STEL:	10 mg/m ³

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:	> 165°F (74°C) @ 760 mmHg
Specific gravity (H ₂ O = 1):	1.00
Vapor pressure (mmHg):	N/D
Melting point:	N/A
Vapor Density (Air = 1):	< 1
Evaporation rate (Ethyl Acetate = 1):	> 1
Appearance/Odor:	Gray liquid/Petroleum odor
Solubility in water:	Slightly

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Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):	64.5% or (645 g/L)
Flash point:	N/D
Aerosol flame extension:	Positive
NFPA Aerosol Level:	3

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, CO₂, 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

Propane

Oral-Rat LD50:	N/D
Inhalation-Rat LC50:	N/D

Toluene

Oral-Rat LD50:	5000 mg/kg
Inhalation-Rat LCLo:	4000 ppm/4h

Xylene

Oral-Rat LD50:	4300 mg/kg
Inhalation-Rat LC50:	5000 ppm/4h

Zinc Dust

Oral-Rat LD50:	N/D
Inhalation-Rat LC50:	N/D

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SECTION 12 – ECOLOGICAL INFORMATION

Ecological Data

Ingredient Name:	Propane
Food Chain Concentration Potential	None
Waterfowl Toxicity	None
BOD	None
Aquatic Toxicity	None
Ingredient Name:	Toluene
Food Chain Concentration Potential	None
Waterfowl Toxicity	N/A
BOD	38%
Aquatic Toxicity	1180 mg/L/96 hr/sunfish/TLm
Ingredient Name:	Xylene
Food Chain Concentration Potential	N/A
Waterfowl Toxicity	N/A
BOD	0%
Aquatic Toxicity	22 ppm/96 hr/bluegill/TLm
Ingredient Name:	Zinc Dust
Food Chain Concentration Potential	N/D
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic 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.

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SECTION 14 – TRANSPORTATION INFORMATION

DOT: Consumer Commodity, ORM-D
Ocean (IMDG): UN1950, Aerosols, 2.1, Limited Quantities or LTD QTY, EmS No. F-D, S-U
Air (IATA): UN1950, Aerosols, 2.1, ERG#126

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

Ingredient Name: **Propane**
SARA 313 No
TSCA Inventory Yes
CERCLA RQ N/A
RCRA Code N/A

Ingredient Name: **Toluene**
SARA 313 Yes
TSCA Inventory Yes
CERCLA RQ 1,000 lbs
RCRA Code U220

Ingredient Name: **Xylene**
SARA 313 Yes
TSCA Inventory Yes
CERCLA RQ 100 lbs.
RCRA Code U239

Ingredient Name: **Zinc Dust**
SARA 313 Yes
TSCA Inventory Yes
CERCLA RQ 1,000 lbs.
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

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