



## SAFETY DATA SHEET

### BREAK-OUT™

High-temperature anti-seize and lubricant

#### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name**

Break-Out™

**Product Codes**

73551, 73431, 73333, 73271, 73361

**Chemical Family**

Organic

**Use**

Lubricant

**Manufacturer's Name**

The RectorSeal Corporation  
2601 Spenwick Drive  
Houston, Texas 77055 USA

**Date of Validation**

January 23, 2015

**Date of Preparation**

November 13, 2012

**HMIS Codes**

Health	1
Flammability	1
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

##### GHS CLASSIFICATION

**Physical Hazards:**

None

**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

Respiratory or Skin Sensitization: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

Reproductive Toxicology: Not Classified

Target Organ Systemic Toxicity - Single Exposure: Not Classified

Target Organ Systemic Toxicity - Repeated Exposure: Not Classified

Aspiration Toxicity: Not Classified

**ENVIRONMENTAL HAZARDS**

Hazardous to the Aquatic Environment: Not Classified  
 Acute aquatic toxicity: Not Classified  
 Chronic aquatic toxicity: Not Classified  
 Bioaccumulation potential: Not Classified  
 Rapid degradability: Not Classified

**GHS Label elements, including precautionary statements**

Pictogram: None

Signal Word: None

Hazard Statements:  
 None

Precautionary Statements:  
 P102 - Keep out of reach of children.  
 P264 - Wash hands thoroughly after handling.

**Summary Of Acute Hazards**

Repeated contact may cause skin irritation.

**Route Of Exposure, Signs And Symptoms**

INHALATION  
 None

EYE CONTACT  
 Irritation, blurred vision.

SKIN CONTACT  
 Irritation, dermatitis, defatting.

INGESTION  
 Gastro-intestinal irritation, nausea, vomiting and diarrhea.

SUMMARY OF CHRONIC HAZARDS  
 Prolonged skin contact may result in irritation and absorption.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE  
 None known.

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

<b>Ingredient:</b>	Petroleum Oil
Percentage By Weight:	50-70
CAS Number:	64741-96-4
EC#:	265-097-6
<b>Ingredient:</b>	Copper Flakes
Percentage By Weight:	15 maximum
CAS Number:	7440-50-8
EC#:	231-159-6

## 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; use soap if available. Remove and wash any contaminated clothing.
If in eyes:	Immediately flush with large amounts of water.
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

<b>Flash Point</b>	466°F (241°C) SETA CC
<b>LEL</b>	N/D
<b>UEL</b>	N/D

**Extinguishing Media**

Foam, dry chemical, CO<sub>2</sub>, or water fog.

**Special Fire Fighting Procedures:** Wear self-contained full face piece breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

**Unusual Fire And Explosion Hazards:** None known.

## 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. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing during cleanup.

## SECTION 7 – HANDLING AND STORAGE

**Precautions To Be Taken In Handling And Storing:** Keep away from heat, sparks and open flames.

**Other Precautions:** Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues and vapors; treat as if full and observe all product precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Units
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**Petroleum Oil**ACGIH TLV: 5 mg/m<sup>3</sup>OSHA PEL: 5 mg/m<sup>3</sup>**Copper Flakes**ACGIH TLV: 1 mg/m<sup>3</sup>OSHA PEL: 1 mg/m<sup>3</sup>**Respiratory Protection (Specify Type):** None required.**Ventilation – Local Exhaust:** Acceptable**Special:** N/A**Mechanical (General):** Preferable**Other:** N/A**Protective Gloves:** Wear rubber gloves.**Eye Protection:** Chemical splash goggles (ANSI Z-87.1 or equivalent)**Other Protective Clothing Or Equipment:** 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: 624°F (329°C) @ 760mm Hg

Specific gravity (H<sub>2</sub>O = 1): 1.20

Vapor pressure (mmHg): 0.01 @ 68°F (20°C)

Melting point: N/A

Vapor Density (Air = 1): &lt; 1

Evaporation rate (Ethyl Acetate = 1): &gt; 1

Appearance/Odor: Copper/Petroleum odor

Solubility in water: Insoluble

Volatile Organic Compounds (VOC) Content  
(theoretical percentage by weight): 0% or 0 g/L

Flash point: 466°F (241°C) SETA CC

Lower explosion limit: N/D

Upper explosion limit: N/D

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions To Avoid:** Heat, sparks, open flames.

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

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, and fragmented hydrocarbons.

**Hazardous Polymerization:** Will not occur.

## SECTION 11 – TOXICOLOGY INFORMATION

## Toxicology Data

## Ingredient Name

**Petroleum Oil**

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

**Copper Flakes**

Oral-Rat LD50: N/D

Oral-Rat TDLo: 152 mg/kg (22W pre)

## SECTION 12 – ECOLOGICAL INFORMATION

## Ecological Data

Ingredient Name: **Petroleum Oil**

Food Chain Concentration Potential N/D

Waterfowl Toxicity N/D

BOD N/D

Aquatic Toxicity N/D

Ingredient Name: **Copper Flakes**

Food Chain Concentration Potential N/D

Waterfowl Toxicity N/D

BOD N/D

Aquatic Toxicity N/D

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Classification:** Non-regulated waste oil. Dispose of in accordance with all local, state and federal regulations.

**Disposal Method:** Used oil recycler

## SECTION 14 – TRANSPORTATION INFORMATION

DOT:	Non-regulated
Ocean (IMDG):	Non-regulated
Air (IATA):	Non-regulated
WHMIS (Canada):	Non-regulated

## SECTION 15 – REGULATORY INFORMATION

**Regulatory Data**

Ingredient Name:	<b>Petroleum Oil</b>
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

Ingredient Name:	<b>Copper Flakes</b>
SARA 313	Yes
TSCA Inventory	Yes
CERCLA RQ	5,000 lb.
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