

# Material Safety Data Sheet

Revision Date 02-Apr-2012

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product code** CW5514  
**Product name** Rust B-Gone  
**Recommended Use** Coating  
**Supplier** Cronatron Welding Systems  
A Lawson Products Company  
1666 East Touhy Avenue  
Des Plaines, IL 60018  
(847) 827-9666  
**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Flammable. Irritant.

**Aggravated Medical Conditions**  
None Known.

**Principal Routes of Exposure**  
Inhalation. Eyes. Skin contact.

### Potential health effects

**Eyes** Irritation. Redness. Itching. Burning sensation.

**Skin** Repeated or prolonged exposure may cause: Skin Irritation. Redness. Itching. Burning sensation.

**Inhalation** Repeated or prolonged exposure may cause the following effects: Headaches. Dizziness. Nausea. Upper respiratory tract irritation. Central nervous system effects. Loss of coordination. Extreme overexposure may cause. Possible unconsciousness. Death. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

**Ingestion** May be harmful if swallowed. Repeated or prolonged exposure may cause: Urinary system effects. Liver abnormalities. Reproductive system damage.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
2-Butoxyethanol	111-76-2	1-5
Acetone	67-64-1	30-60
Methyl ethyl ketone	78-93-3	15-40
Dimethyl ether	115-10-6	15-40

## 4. FIRST AID MEASURES

**Eye contact** Flush with plenty of water for at least 15 minutes. Seek medical attention.

**Skin contact** Wash area thoroughly with soap and water. Remove and wash contaminated clothing before re-use.

**Ingestion** Do Not induce vomiting. Immediate medical attention is required.

**Inhalation** Remove from exposure. Restore breathing. Keep warm and quiet. Contact physician if breathing difficulty develops.

## 5. FIRE FIGHTING MEASURES

**Flash point °C** < -17  
**Flash point °F** < 0  
**Method** No information available

**Autoignition temperature °C** No data available  
**Autoignition temperature °F** No data available

**Flammability Limits (% in Air)**  
**Upper** 27.0  
**Lower** 1.1

### Specific Information for Aerosol Products

**Flame extension** Unknown  
**Flashback** Unknown

**Suitable extinguishing media**  
Carbon dioxide (CO2). Dry chemical powder. Foam.

**Special protective equipment for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Special Fire-Fighting Procedures**  
Avoid breathing of vapors. Avoid skin and eye contact. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**Specific hazards**  
Keep product and empty container away from heat and sources of ignition. In the event of fire and/or explosion do not breathe fumes.

**Fire and Explosion Hazards**

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Water spray may be ineffective. If water is used, fog nozzles are preferable. Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing. Vapors are heavier than air and may travel along the ground to an ignition source distant from material handling area. Possible ignition sources include pilot lights, flames, lighted cigarettes, heating elements, electric motors, sparks from electrical switches.

**Sensitivity to shock**

No information available.

**Sensitivity to static discharge**

No information available.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment.

**Methods for cleaning up**

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material.

**7. HANDLING AND STORAGE****Handling**

Keep in a well-ventilated place. Turn off other sources of ignition prior to use and until all vapors have dissipated. Vapors may accumulate readily and may ignite explosively. Remove all sources of ignition. Keep away from open flame. Do not smoke. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Contents under pressure. Do not puncture or incinerate. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of reach of children.

**Storage**

Store in temperatures below 120 degrees F.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Acetone	1000 ppm 2400 mg/m <sup>3</sup>	-	500 ppm	750 ppm
Dimethyl ether	-	-	-	-
Methyl ethyl ketone	200 ppm 590 mg/m <sup>3</sup>	-	200 ppm	300 ppm
2-Butoxyethanol	50 ppm 240 mg/m <sup>3</sup>	-	20 ppm	-

**Ventilation and Environmental Controls**

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits. Local: recommended. General: as necessary.

**Hygiene measures**

Wash hands before breaks and immediately after handling the product.

**Other precautions**

Avoid contact with the skin and the eyes.

**Respiratory protection**

Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator. Wear a NIOSH approved organic vapor/particulate respirator.

**Hand Protection**

Gloves are not required in normal use. For prolonged or repeated skin contact, use a chemically resistant glove such as nitrile or neoprene. Wash hands with soap and water after removing gloves. Dry hands thoroughly before re-applying gloves. .

**Eye protection**

Wear safety glasses with side shields.

**Skin and body protection**

None necessary under normal conditions

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	Aerosol
Color	Colorless
Odor	No information available
Odor Threshold	No information available
pH	Not Applicable
Specific Gravity	0.78
Vapor pressure	No data available
Vapor density	>Air
Evaporation Rate	>1 (ether = 1)
Water solubility	No data available
VOC Content	50.93
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	< -18 - 172
Boiling point/range °F	< 0 - 343
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	< -17
Flash point °F	< 0

**10. STABILITY AND REACTIVITY****Stability**

Stable.

**Conditions to avoid**

None known.

**Incompatibility**

None.

**Hazardous Decomposition Products**

Carbon dioxide. Carbon monoxide.

**Polymerization**

Hazardous polymerization does not occur.

**11. TOXICOLOGICAL INFORMATION****Component Information**

Chemical Name	LD50 (oral, rat )	LD50 (dermal, rat/rab bit)	LC50 (inhalation, rat)
Acetone 67-64-1	5800 mg/kg	-	-
Dimethyl ether 115-10-6	-	-	308.5 mg/L
Methyl ethyl ketone 78-93-3	2737 mg/kg	6480 mg/kg	-
2-Butoxyethanol 111-76-2	470 mg/kg	220 mg/kg 2270 mg/kg	2.21 mg/L 450 ppm

**Synergistic Products**

None known

**Specific Hazards**

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain damage.

**Potential health effects****Sensitization**

None known

**Chronic toxicity**

Repeated and prolonged exposure to solvents may cause brain and nervous system damage. See Section 2 .

**Mutagenic effects**

None known

**Teratogenic effects**

None known

**Reproductive toxicity**

None known

**Target Organ Effects**

Prolonged skin contact with 2-butoxyethanol may result in the absorption of potentially harmful amounts leading to possible liver and kidney damage.

**Carcinogenic effects**

See table below

Chemical Name	ACGIH OEL - Carcinoge ns	IARC	NTP - Known Carcinoge ns	NTP - Suspected Human Carcinoge ns	OSHA RTK Carcinoge ns
Acetone	A4	Not Listed	Not Listed	Not Listed	Not Listed
Dimethyl ether	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Methyl ethyl ketone	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

2- Butoxyethanol	A3	Not Listed	Not Listed	Not Listed	Not Listed
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**12. ECOLOGICAL INFORMATION****Acetone****Microtox Data***Photobacterium phosphoreum* EC50=14500 mg/L (15 min)**Water Flea Data***Daphnia magna* EC5010294 - 17704 mg/L (48 h)*Daphnia magna* EC5012600 - 12700 mg/L (48 h)**Methyl ethyl ketone****Microtox Data***Photobacterium phosphoreum* EC50=3403 mg/L (30 min)*Photobacterium phosphoreum* EC50=3426 mg/L (5 min)**Water Flea Data***Daphnia magna* EC504025 - 6440 mg/L (48 h)*Daphnia magna* EC50=5091 mg/L (48 h)*Daphnia magna* EC50>520 mg/L (48 h)**2-Butoxyethanol****Water Flea Data***Daphnia magna* EC501698 - 1940 mg/L (24 h)*Daphnia magna* EC50>1000 mg/L (48 h)**13. DISPOSAL CONSIDERATIONS****Disposal Information**

As supplied, this product is a RCRA Hazardous Waste . Waste must be tested for ignitability to determine EPA hazardous waste numbers. Do not puncture or incinerate. Depressurize before disposal.

**Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

**14. TRANSPORTATION INFORMATION****DOT**

UN1950 Aerosols, flammable, 2.1.

*Exception:* (Compressed Gas not more than 1.0L) Consumer Commodity ORM-D**TDG**

UN1950 AEROSOLS, flammable, 2.1

**15. REGULATORY INFORMATION**

Chemical Name	US EPA SARA 313 Emission Reporting
2-Butoxyethanol	Listed

**State Regulations**

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Acetone	Not Listed	Listed	Not Listed
Dimethyl ether	Listed	Listed	Not Listed
Methyl ethyl ketone	Listed	Listed	Not Listed
2-Butoxyethanol	Listed	Listed	Not Listed

Product code **CW5514**

Product name **Rust B-Gone**

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**International Inventories**

Chemical Name	EINECS	DSL	NDSL	TSCA
Acetone	X	X	-	X
Dimethyl ether	X	X	-	X
Methyl ethyl ketone	X	X	-	X
2-Butoxyethanol	X	X	-	X

**CPR**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

**16. OTHER INFORMATION**

**HMIS**

**Health - 2**

**Flammability - 4**

**Physical Hazard - 0**

**Prepared By**

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Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.