

Material Safety Data Sheet

Effective Date: September 01, 2011

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CorroSeal Black

Product Identifier: 340g Aerosol, Part #12151413904250

Product Description: Battery, Terminal and Assembly Coating and Protector

Supplier: Preferred Industrial

#3160-21331 Gordon Way, Richmond, BC, V6W 1J9, Canada

Phone: 604-231-6030, Toll Free: 1-866-522-1600, Fax: 604-247-1610

2. HAZARDS IDENTIFICATION

Emergency Overview
Flammable. Irritant.

Color: Black

Odor: Solvent

Form : Aerosol

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 or burning sensation

Inhalation: Repeated or prolonged exposure may cause the following effects. Headaches, Dizziness, Nausea, Upper respiratory tract irritation, Central nervous system effects. Extreme over-exposure may cause loss of co-ordination, possible unconsciousness or death.

Ingestion: May be harmful if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Propane	74-98-6	10-30
Toluene	108-88-3	5-10
Ethyl benzene	100-41-4	1-5
Acetone	67-64-1	30-60
n-Butyl acetate	123-86-4	1-5
Carbon Black	1333-86-4	0.5-1.5
Xylene (mix)	1330-20-7	7-13
Ethyl 3-Ethoxypropionate	763-69-9	3-7

4. FIRST AID MEASURES

Eye contact	Flush with plenty of water for at least 15 minutes. Seek medical attention.
Skin contact	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
Ingestion	Do not induce vomiting. Immediate medical attention is required. Remove
Inhalation	from exposure. Restore breathing. Keep warm and quiet.

5. FIRE FIGHTING MEASURES

Flash point °C	< -17
Flash point °F	<0
Method	N/A

Autoignition temperature °C

No Data Available

Autoignition temperature °F

No Data Available

Flammability Limits (% in Air)

Upper 12.8

Lower 1.0

Suitable extinguishing media

Carbon dioxide (CO2). Dry chemical. 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.

Fire and Explosion Hazards

Keep product and empty container away from heat and sources of ignition. Water spray may be ineffective. If water is used, fog nozzles are preferable. In the event of fire and/or explosion do not breathe fumes. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

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

Ensure adequate ventilation. 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 49° C (120° F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Acetone	1000ppm 2400 mg/m ³	-	500 ppm	750 ppm
Propane	1000ppm 1800 mg/m ³	-	1000 ppm	-
Xylene (mix)	100ppm 435 mg/m ³	-	100 ppm	150 ppm
Toluene	200 ppm	300 ppm	20 ppm	-
Ethyl 3-Ethoxypropionate	-	-	-	-
Ethyl benzene	100 ppm 435 mg/m ³	-	100 ppm	125 ppm
i-Butyl acetate	150 ppm 710 mg/m ³	-	150 ppm	200 ppm
Carbon Black	3.5 mg/m ³	-	3.5 mg/m ³	-

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLVs in the worker's breathing zone and the general area. 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

Personal protective equipment

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Wear a NIOSH approved organic vapor/particulate respirator.

Hand Protection

Gloves are not required in normal use. The following gloves are recommended for prolonged or repeated contact: Chemical resistant 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	Black
Odor	Solvent	Odor Threshold	No information available
pH	Not Applicable	Specific Gravity	0.77
Vapor pressure	No data available	Vapor density	>1 (air=1)
Evaporation Rate	>1	VOC Content	44.51%
Water solubility	(ether = 1) No data available	Partition Coefficient:	(n-octanal/water)
		No Data Available	
Boiling point/range °C	<-18-172	Boiling point/range °F	< 0 - 342
Melting point/range °C	No data available	Melting point/range °F	No data available
Flashpoint°C	<-17	Flash point °F	< 0

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Incompatibility

None known.

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/rabbit)	LC50 (inhalation,rat)
<i>Acetone</i> <i>67-64-1</i>	5800 mg/kg	5800 mg/kg	5800 mg/kg
<i>Propane</i> <i>74-98-6</i>	658 mg/L	658 mg/L	658 mg/L
<i>Xylene (mix)</i> <i>1330-20-7</i>	4300 mg/kg 47635 mg/L 5000 ppm 1700 mg/kg	4300 mg/kg 47635 mg/L 5000 ppm 1700 mg/kg	4300 mg/kg 47635 mg/L 5000 ppm 1700 mg/kg
<i>Toluene</i> <i>108-88-3</i>	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm
<i>Ethyl 3-Ethoxypropionate</i> <i>763-69-9</i>	10mL/kg 3200 mg/kg	10mLkg 3200 mg/kg	10mL/kg 3200 mg/kg
<i>Ethyl benzene</i> <i>100-41-4</i>	15354 mg/kg 17.2 mg/L 3500 mg/kg	15354 mg/kg 17.2 mg/L 3500 mg/kg	15354 mg/kg 17.2 mg/L 3500 mg/kg
<i>n-Butyl acetate</i> <i>123-86-4</i>	10768 mg/kg 390 ppm 17600 mg/kg	10768 mg/kg 390 ppm 17600 mg/kg	10768 mg/kg 390 ppm 17600 mg/kg
<i>Carbon Black</i> <i>1333-86-4</i>	15400 mg/kg 3g/kg	15400 mg/kg 3g/kg	15400 mg/kg 3g/kg

Synergistic Products

None known

Specific Hazards

Hexane has been reported to affect the central nervous system and may damage peripheral nerve tissue.

Potential health effects

Sensitization

None known.

Chronic toxicity

See Section 2.

Mutagerric effects

None known.

Teratogenic effects

None known.

Reproductive toxicity

None known.

Target Organ Effects.

See Section 2.

Carcinogenic effects

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Acetone	A4 – Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Xylene(mix)	A4—Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Toluene	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl 3-Ethoxypropionate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl benzene	A3 - Confirmed animal carcinogen with unknown relevance to humans	Group 2B	Not Listed	Not Listed	Listed
n-Butyl acetate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Black	A4 – Not Classifiable as a Human Carcinogen	Group 2B	Not Listed	Not Listed	Listed

12. ECOLOGICAL INFORMATION

Acetone

Microtox Data

Photobacterium phosphoreum EC50=14500 mg/L (15 min)

Water Flea Data

water flea EC50=0,0039 mg/L (48 h)

Daphnia magna EC50=12600 mg/L (48

h) water flea EC50=12700 mg/L (48 h)

Xylene (mix)

Microtox Data

Photobacterium phosphoreum EC50=0.0084 mg/L (24 h)

Water Flea Data

Gammarus lacustris LC50=0.6 mg/L (48

h) water flea EC50=3.82 mg/L (48 h)

Toluene

MicrQtox Data

Photobacterium phosphoreum EC50=19.7 mg/L (30 min)

Water Flea Data

Daphnia magna EC50=11.3 mg/L (48

h) water flea EC50=11.3 mg/L (48 h)

water flea EC50=310mg/L (48h)

Ethyl 3-Ethoxypropionate

Water Flea Data

Daphnia magna EC50=970 mg/L (48 h)

Ethyl benzene

Microtox Data

Photobacterium phosphoreum EC50=9.68 mg/L

(30 min) Nitrosomonas EC50=96mg/L (24 h)

Water Flea Data

Daphnia magna EC501.8 - 2.4

mg/L (48 h) n-Butyl acetate

Microtox Data

Photobacterium phosphoreum EC50=70.0 mg/L (5 min)

Photobacterium phosphoreum EC50=82.2mg/L (15 min)

Pseudomonas putida EC50=959 mg/L(18 h)

Photobacterium phosphoreum EC50=98.9 mg/L (30 min)

Water FTea Data

water flea EC50=44mg/L (48h).

Carbon Black

Water Flea Data

Daphnia rnagna EC50>5600mg/L (24h)

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

Waste from residues / unused products

No information available

14. TRANSPORT 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

IMDG/IMO

UN 1950 Aerosols, flammable, 2.1

IATA

UN 1950 Aerosols, flammable, containing substances in Division 6.1, Packing Group IH, 2.1 (6.1)

MEX

UN1950 Aerosols, flammable, 2.1

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting			
Xylene (mix)	Listed			
Toluene	Listed			
Ethyl benzene	Listed			
Chemical Name-	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65	
Acetone	Not Listed	Listed		
Propane	Listed	Listed	Not Listed	
Xylene (mix)	Not Listed	Listed	Not Listed	
Toluene	Listed	Listed	Developmental	
Ethyl 3-Ethoxypropionate	Not Listed	Not Listed	Not Listed	
Ethyl benzene	Listed	Listed	Carcinogen	
n-Butyl acetate	Listed	Listed	Not Listed	
Carbon Black	Not Listed	Listed	Carcinogen	
Chemical Name	EINECS	DSL	NGSL	TSCA
Acetone	X	X	-	X
Propane	X	X	-	X
Xylene (mix)	X	X	.	X
Toluene	X	X	-	X
Ethyl 3-Ethoxypropionate	X	X	-	X
Ethyl benzene	X	X	-	X
n-Butyl acetate	X	X	-	X
Carbon Black	X	X	-	X

CPRC

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

Other Information

NFPA

Health –

Flammability –

Reactivity –

HMIS

Health – 2

Flammability – 3

Physical Hazard - 0

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