



1	Chemical Product and Company Identification
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*The Lubrizol Corporation
29400 Lakeland Boulevard
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Tel: (440) 943-4200*

Product Trade Name	CONTRAM™ CB- 1
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic Chemical Name	Confidential.
Product Type	Metalworking Biocides
Preparation/Revision Date	26 June 2009
UN Number	Not applicable.
Dangerous Goods Class and Subsidiary Risk	Not applicable.
HAZCHEM Code	Not regulated
24 Hour Transportation Emergency Phone No.	IN CASE OF TRANSPORT EMERGENCY, CALL (02) 9741 5213 IN AUSTRALIA, OR CHEMTREC INTERNATIONAL (+1) (703-527-3887). COLLECT CALLS ACCEPTED
Statement of Hazardous Nature	Hazardous according to criteria of the National Occupational Health and Safety Commission.
Posionous Schedule Number	None Allocated
MSDS No.	17494887-2021016-3055920-102103

2	Hazards Identification
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Principal Hazards	<p>Danger.</p> <ul style="list-style-type: none"> ● Causes severe eye irritation risk of irreversible eye damage. ● Harmful if absorbed through skin. ● May cause skin irritation. ● May cause respiratory tract irritation. ● May cause allergic skin reaction. ● May cause chronic health effects.
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See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
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Hazardous Ingredients

Comp	Percentage (by wt.)	Symbol(s)	Risk Phrase(s)	CAS No.
(ethylenedioxy)dimethanol	From 10 to 19.9 percent	Xn	R22 R41 R43 R38	3586-55-8
Ethoxylated alcohol	From 10 to 19.9 percent	Xn	R22 R41	Confidential.

Carbamate	From 0.1 to 0.9 percent	Xn	R20 R41	Confidential.
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4	First Aid Measures
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Oral	Treat symptomatically. Get medical attention. Call a poison center or doctor if exposed or you feel unwell.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
Skin	Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse and discard leather articles saturated with the material.
Inhalation	Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.
Additional Information	Note to physician: Treat symptomatically.

5	Fire Fighting Measures
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Flash Point	> 100 °C, 212 °F PMCC (Minimal)
Extinguishing Media	CO2, dry chemical, foam, water spray, water fog.
Firefighting Procedures	Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Water may be ineffective fighting fires.
Unusual Fire & Explosion Hazards	Material will not burn. Container may rupture on heating.

6	Accidental Release Measures
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Spill Procedures	Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.
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7	Handling and Storage
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Pumping Temperature	Not determined.
Maximum Handling Temperature	Not determined.
Handling Procedures	Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid breathing dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.
Maximum Storage Temperature	Not determined.
Storage Procedures	Store in a cool, dry location.
Loading Temperature	Not determined.

8	Exposure Controls/Personal Protection
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Exposure Limits**Australia**

Not applicable.

New Zealand

Not applicable.

Other Exposure Limits

None known.

Engineering Controls

Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

Hand Protection

The effectiveness of the following fabrics to prevent contact with this material is dependent upon the extent of contact and the conditions under which the glove is used.

Eye Protection

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

Respiratory Protection

Under normal use conditions, respirator is not usually required.

Clothing Recommendation

Wear a chemically protective apron when contact with material may occur. Use neoprene or nitrile rubber boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

9	Physical and Chemical Properties
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Flash Point	> 100 °C, 212 °F PMCC (Minimal)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Explosion Data	Material does not have explosive properties.
Vapour Pressure	Not determined.
pH	Not determined.
Specific Gravity	1.07 (20 °C)
Bulk Density	Not determined.
Water Solubility	Soluble.
Percent Solid	Not determined.
Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapour Density	Not determined.
Evaporation Rate	Not determined.
Odor	Characteristic
Appearance	Yellowish liquid.
Viscosity	Not determined.
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	Not determined.
Melting / Freezing Point	Not determined.

The above data are typical values and do not constitute a specification.

10	Stability and Reactivity
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Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Strong acids. Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

11	Toxicological Information
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-- ACUTE EXPOSURE --

Oral Toxicity	The LD50 in rats is 2000 – 5000 mg/Kg. Based on data from components or similar materials. Swallowing this material causes irritation of mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain.
Eye Irritation	Severe eye irritant. Risk of irreversible damage to eyes. Based on data from components or similar materials.
Skin Irritation	May cause mild skin irritation. Does not meet Canadian D2B or EU R38 criteria. Based on data from components or similar materials. Prolonged or repeated contact may cause dermatitis.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts.
Inhalation Toxicity	No data available to indicate product or components may be a toxic inhalation hazard.
Respiratory Irritation	May cause nose, throat, and lung irritation. Based on data from components or similar materials.
Dermal Sensitization	May cause skin sensitization. Based on data from components or similar materials.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	Repeated overexposure to alkanolamines may cause liver and kidney damage.
Carcinogenicity	No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

-- ADDITIONAL INFORMATION --

Other	No other health hazards known.
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12	Ecological Information
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-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	The acute LC50 is 1 - 10 mg/L based on component data.
Freshwater Invertebrates Toxicity	The acute EC50 is 10 - 100 mg/L based on component data.
Algal Inhibition	The acute EC50 is 10 - 100 mg/L based on component data.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates	

Toxicity	Not determined.
Bacteria Toxicity	Not determined.
Miscellaneous Toxicity	Not determined.

-- ENVIRONMENTAL FATE --

Biodegradation	At least 75% of the components in this product show rapid biodegradation based on OECD 301-type test data.
Bioaccumulation	25% or greater of the components will not bioconcentrate, based on actual data.
Soil Mobility	Not determined.

13	Disposal Considerations
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Waste Disposal	Waste management should be in compliance with the Waste Disposal Act and local laws. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.
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14	Transport Information
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ICAO/IATA II	Not regulated
IMDG	Not regulated
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFAG	Not applicable.
MARPOL Annex II	Not determined.
USCG Compatibility	Not determined.
ADG	Not regulated
ADG HAZCHEM	Not regulated

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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Signal Word	Hazardous
Labelling Information	R41 -- Risk of serious damage to eye. S24 -- Avoid contact with skin. S26 -- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 -- After contact with skin, wash immediately with plenty of water. S37/39 -- Wear suitable gloves and eye/face protection

-- Global Chemical Inventories --

USA	Requires notification in the U.S. Commercial shipments from Lubrizol's U.S. location must be exported to non U.S. customers only. Research and development quantities must bear special labels and shipping papers. Sample recipients must comply with the requirements for an R&D exemption under TSCA.
EU	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
Japan	This product requires notification in Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
New Zealand	All components are in compliance with chemical notification requirements in New Zealand.
Canada	This product requires notification before sale in Canada.

Switzerland All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Korea All components are in compliance in Korea.

China All components of this product are listed on the Inventory of Existing Chemical Substances in China.

Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

-- Product Registrations --

U.S. Dept of Agriculture This product has not been filed with the USDA to support H2 approvals.

NSF Nonfood Compounds Registration This product has not been filed with the NSF to support H1 or H2 approvals.

Finnish Registration Number Not Registered

Swedish Registration Number Not Registered

Norwegian Registration Number Not Registered

Danish Registration Number Not Registered

Swiss Registration Number Not Registered

Italian Registration Number Not Registered

Korean Registration Number Not Registered

-- Other / International --

FDA Approval Not applicable.

16	Other Information
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US NFPA Codes

Health	Fire	Reactivity	Special
3	1	0	N/E

HMIS Codes

Health	Fire	Reactivity
3*	1	0

Precautionary Labels

Danger.

- Causes severe eye irritation risk of irreversible eye damage.
- Harmful if absorbed through skin.
- May cause skin irritation.
- May cause respiratory tract irritation.
- May cause allergic skin reaction.
- May cause chronic health effects.

Revision Indicators

Section: 1 Product type.	Changed: 29 March 2009
Section: 2 Principal hazards.	Changed: 31 March 2009
Section: 3 Global hazardous ingredients	Changed: 13 April 2009
Section: 4 Oral first aid.	Changed: 29 March 2009
Section: 7 Handling procedures.	Changed: 29 March 2009
Section: 8 Respiratory protection.	Changed: 29 March 2009

Section: 9 Odor threshold.	Changed: 29 March 2009
Section: 9 Percent volatile.	Changed: 29 March 2009
Section: 9 Viscosity.	Changed: 29 March 2009
Section: 12 Freshwater fish toxicity.	Changed: 22 October 2008
Section: 13 Waste disposal.	Changed: 22 October 2008
Section: 15 New Zealand	Changed: 22 October 2008
Section: 16 Principal hazards.	Changed: 31 March 2009

Contact Point

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