

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Clean - Bond Concentrate  
**GENERAL USE:** Cleaning agent  
**PRODUCT DESCRIPTION:** Yellow liquid, characteristic lemon odor.



<b>MANUFACTURER'S NAME</b> Controlled Release Technologies, Inc.	<b>DATE PREPARED:</b> October 20, 2008	Page 1 of 4
<b>ADDRESS (NUMBER, STREET, P.O. BOX)</b> 1016 Industry Drive	<b>SUPERSEDES:</b> New	
<b>(CITY, STATE AND ZIP CODE)</b> Shelby, NC 28152	<b>COUNTRY</b> USA	
<b>TELEPHONE NUMBER FOR INFORMATION</b> (704) 487-0878		
<b>EMERGENCY TELEPHONE NUMBER</b> ChemTel Inc. 1- (800) 255-3924 Intl. + 01 (813) 248-0585		

## SECTION 2 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Colorless combustible liquid, potentially hazardous vapors. Can cause serious or fatal complications if swallowed. Can cause eye and skin irritation upon contact. Inhalation of vapors can cause anesthetic effect leading to death in poorly ventilated areas. Hazard Symbols for this product - Xn Risk Phrases - R 20/21/22, 36/38, 65, 66, 67

### POTENTIAL HEALTH EFFECTS

**INHALATION:** High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

**SKIN:** Brief contact may cause slight irritation; prolonged contact may cause moderate reddening, swelling and possible necrosis.

**EYES:** Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva.

**INGESTION:** May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts aspirated into the lungs can produce severe lung injury, chemical pneumonitis, pulmonary edema or death.

**CARCINOGENICITY** NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	EINECS #	% (by weight)	OSHA PEL		ACGIH TWA		RQ LBS
				PPM	MG/M3	PPM	MG/M3	
Petroleum distillate, aliphatic	64742-88-7	265-191-7	15 - 40	100	500	100	500	
Ethylene glycol monobutyl ether (a,b)	111-76-2	203-905-0	15 - 40	50	240	20		
Isopropylamine Dodecylbenzenesulfonate	90218-35-2	290-709-3	10 - 30	not established				

The remaining components of this product are non-hazardous or are in small enough quantities as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

(a) See Section 15

(b) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

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**SECTION 4 - FIRST AID MEASURES**

**INHALATION:** Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

**SKIN:** Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

**EYES:** Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

**INGESTION:** DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.

**SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT (METHOD USED)

142° F ( 61.1° C ) TCC

FLAMMABLE LIMITS

LEL: 1.0%

UEL: 7.0%

AUTOIGNITION TEMPERATURE:

460° F ( 237.8° C )

NFPA CLASS:

**IIA**

**GENERAL HAZARDS:** Product is combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

**EXTINGUISHING MEDIA**

Carbon dioxide, water fog, dry chemical, chemical foam.

**FIRE FIGHTING PROCEDURES**

Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface. Caution - Material is combustible!

**HAZARDOUS COMBUSTION PRODUCTS**

Smoke, fumes or vapors, oxides of carbon.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** COMBUSTIBLE. Evacuate and ventilate area; confine and absorb into absorbent; place material into approved containers for disposal; refer to SARA Title III, Section 313 40 CFR 372 for details concerning reporting requirements. Do not discharge into lakes, ponds, streams or public waters.

**SECTION 7 - HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** This material is combustible. It should be stored in tightly closed containers in a cool, well ventilated area. Vapor may form explosive mixtures in air. All sources of ignition should be controlled. Keep this and other chemicals out of reach of children. Avoid inhaling concentrated fumes or vapors.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS**

The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

**PERSONAL PROTECTION:**

**RESPIRATORY PROTECTION:** None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134, ANSI Z88.2, or European Standard EN 149 for complete regulations.

**PROTECTIVE GLOVES:** Neoprene, butyl or nitrile rubber gloves with cuffs.

**EYE PROTECTION:** Chemical splash goggles. Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Coveralls, apron, or other equipment should be worn to minimize skin contact, safety eyewash station nearby.

**WORK / HYGIENIC PRACTICES:** Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR Yellow liquid, characteristic lemon odor.	VAPOR DENSITY (AIR = 1) > 4
SPECIFIC GRAVITY (WATER = 1) 0.904	EVAPORATION RATE (Water = 1) < 1
SOLUBILITY IN WATER Emulsifies	% VOLATILE (BY WEIGHT) > 70%
pH 7.0	VAPOR PRESSURE Approximately 1.0 mm Hg @ 20° C
BOILING POINT 355° F ( 179.4° C )	FREEZING POINT Not determined
VISCOSITY Not specified	VOLATILE ORGANIC COMPOUNDS (VOC's) Not determined

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: X	CONDITIONS TO AVOID: Extreme temperatures, open flames.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.	
HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X	CONDITIONS TO AVOID: None

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Ingredients	CAS #	EINECS #	LD50 of Ingredient Species and Route	LC50 of Ingredient Species
Petroleum distillate, aliphatic	64742-88-7	265-191-7	4700 mg / kg Oral - rat	4100 ppm / 4H Inhalation - rat
Ethylene glycol monobutyl ether (a,b)	111-76-2	203-905-0	470 mg / kg Oral - rat	450 ppm / 4H Inhalation - rat
Isopropylamine Dodecylbenzenesulfonate	90218-35-2	290-709-3	1836 mg / kg	Not established

**SECTION 12 - ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. This product may produce hazardous vapors in a closed disposal container creating a dangerous environment. Refer to 40 CFR 260 - 299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Non - Hazardous for Transport	
DOT HAZARD CLASS / Pack Group: Not regulated REFERENCE: Not Applicable UN / NA IDENTIFICATION NUMBER: None LABEL: None Required HAZARD SYMBOLS: None	IATA HAZARD CLASS / Pack Group: Not regulated IMDG HAZARD CLASS: Not regulated RID/ADR Dangerous Goods Code: Not regulated UN TDG Class / Pack Group: Not regulated Hazard Identification Number (HIN): None

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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**SECTION 15 - REGULATORY INFORMATION**

**TSCA (Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLE III (Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories  
 Immediate health

313 Reportable Ingredients:

(a) Indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**CERCLA (Comprehensive Response Compensation and Liability Act)**

None

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: B3, D1B, D2B

**IDL (Canadian Ingredient Disclosure List)**

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)**

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: 1

VbK Index: A III

**Risk Phrases**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 R36/38 Irritating to eyes and skin.  
 R65 Damaging to lungs when swallowed.  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R67 Vapours may cause drowsiness and dizziness.

**SYMBOL(S) REQUIRED FOR LABEL**

Harmful



**Safety Phrases**

S23 Do not breathe vapor.  
 S24/25 Avoid contact with skin and eyes.  
 S36/37 Wear suitable protective clothing and gloves.  
  
 S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this label.

**SECTION 16 - OTHER INFORMATION**

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar products, the ingredients, technical literature, and/or professional experience.

**HMIS HAZARD RATINGS**

HEALTH	2	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	1	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME

PERSONAL PROTECTIVE EQUIPMENT D Face Shield, Gloves, Apron

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:  
 No changes noted

**MSDS Prepared by:**

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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.