



# MATERIAL SAFETY DATA SHEET

**CHROMATE INDUSTRIAL CORPORATION®**  
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**FOR CHEMICAL EMERGENCY**  
Call ChemTrec day/night:  
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## PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CONTACT CLEANER BULK

**DATE PREPARED:** MARCH 11, 2010

**PART NUMBER:** 74706 (5 GALLONS)  
74707 (55 GALLONS)

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## SECTION 2 — COMPOSITION / DATA ON COMPONENTS

### CHEMICAL CHARACTERIZATION

**DESCRIPTION:** Mixture of the substances listed below with non-hazardous additions.

### DANGEROUS COMPONENTS:

<b>CAS:</b> 422-56-0	3,3-DICHLORO-1,1,1,2,2-PENTAFLUOROPROPANE	Xn, Xi; R 20-36/38	65-70%
<b>EINECS:</b> 207-016-9			
<b>CAS:</b> 67-63-0	PROPAN-2-OL	Xi, F; R 11-36-67	15-25%
<b>EINECS:</b> 200-661-7			
<b>CAS:</b> 507-55-1	1,3-DICHLORO-1,1,2,2,3-PENTAFLUOROPROPANE	Xn, Xi; R 20-36/38	10-15%

**ADDITIONAL INFORMATION:** For the wording of the listed risk phrases refer to *section 16*.

## SECTION 3 — HAZARDS IDENTIFICATION

**HAZARD DESCRIPTION:** HARMFUL

*Information pertaining to particular dangers for man and environment.*

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Harmful by inhalation.

Irritating to eyes and skin.

### CLASSIFICATION SYSTEM

<b>NFPA RATINGS (SCALE 0-4):</b>	<b>HEALTH: 2</b>	<b>FIRE: 2</b>	<b>REACTIVITY: 0</b>
<b>HMIS RATING SYSTEM (0-4):</b>	<b>HEALTH: 2</b>	<b>FLAMMABILITY: 2</b>	<b>REACTIVITY: 0</b>

## SECTION 4 — FIRST AID MEASURES

**GENERAL INFORMATION:** Symptoms of poisoning may even occur after several hours, therefore, medical observation for at least 48 hours after the accident.

**AFTER INHALATION:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness, place patient stably on side position for transportation.

**AFTER SKIN CONTACT:** Immediately wash with water and soap and rinse thoroughly.

**AFTER EYE CONTACT:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**AFTER SWALLOWING:** If symptoms persist, consult doctor.

**SECTION 5 — FIRE-FIGHTING MEASURES**

**SUITABLE EXTINGUISHING AGENTS:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**PROTECTIVE EQUIPMENT:** Mount respiratory protective device.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

**PERSON-RELATED SAFETY PRECAUTIONS:** Wear protective equipment. Keep unprotected persons away.

**MEASURES FOR ENVIRONMENTAL PROTECTION:** Do not allow to enter sewers/surface or ground water.

**MEASURES FOR CLEANING/COLLECTING:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to *Section 13*. Ensure adequate ventilation.

**SECTION 7 – HANDLING AND STORAGE**

**HANDLING:**

**INFORMATION FOR SAFE HANDLING:** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

**INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS/ FIRES:** Do not spray on a naked flame or any incandescent material. Use explosion-proof apparatus/fittings and spark-proof tools. Keep ignition sources away - Do not smoke.

**STORAGE:**

**REQUIREMENTS TO BE MET BY STOREROOMS AND RECEPTACLES:** No special requirements.

**INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:** Not required.

**FURTHER INFORMATION ABOUT STORAGE CONDITIONS:** Keep receptacle tightly sealed.

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

**ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:** No further data; *see item 7*.

**COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:**

**67-63-0 PROPAN-2-OL (15-25%)**

*PEL 980 mg/m<sup>3</sup>, 400 ppm*

*REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm*  
*Long-term value: 980 mg/m<sup>3</sup>, 400 ppm*

*TLV Short-term value: 984 mg/m<sup>3</sup>, 400 ppm*  
*Long-term value: 492 mg/m<sup>3</sup>, 200 ppm*

*BEI*

**ADDITIONAL INFORMATION:** *The lists that were valid during the creation were used as basis.*

**PERSONAL PROTECTIVE EQUIPMENT**

**GENERAL PROTECTIVE AND HYGIENIC MEASURES:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**BREATHING EQUIPMENT:** In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**PROTECTION OF HANDS:** Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**PENETRATION TIME OF GLOVE MATERIAL:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**EYE PROTECTION:** Tightly sealed goggles.

**BODY PROTECTION:** Protective work clothing.

**SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES****GENERAL INFORMATION****FORM:** Liquid**COLOR:** Colorless**ODOR:** Characteristic**CHANGE IN CONDITION****MELTING POINT/MELTING RANGE:** undetermined**BOILING POINT/BOILING RANGE:** 55°C (131°F)**FLASH POINT:** >60°C (>140°F)**IGNITION TEMPERATURE:** 425°C (797°F)**AUTO-IGNITING:** Product is not selfigniting.**DANGER OF EXPLOSION:** Product does not present an explosion hazard.**EXPLOSION LIMITS:**  
*Lower:* 2.0 Vol %  
*Upper:* 12.0 Vol %**VAPOR PRESSURE @ 20°C (68°F):** 43 hPa (32 mm Hg) **DENSITY @ 20°C (68°F):** 1.25 g/cm<sup>3</sup>**SOLUBILITY IN / MISCIBILITY WITH WATER:** Not miscible or difficult to mix.**SOLVENT CONTENT:****ORGANIC SOLVENTS:** 15-25%**ADDITIONAL INFORMATION:***Dielectric Constant (1MHz,25C):* 4.14*Dielectric Breakdown:* 43 kV, according to ASTM D-877*The above data are typical values and do not constitute a specification.***SECTION 10 – STABILITY AND REACTIVITY****THERMAL DECOMPOSITION/CONDITIONS TO BE AVOIDED:** No decomposition if used according to specifications.**MATERIALS TO BE AVOIDED:** N/L**DANGEROUS REACTIONS:** No dangerous reactions known.**DANGEROUS PRODUCTS OF DECOMPOSITION:** No dangerous decomposition products known.**SECTION 11 – TOXICOLOGICAL INFORMATION****ACUTE TOXICITY****PRIMARY IRRITANT EFFECT:****ON THE SKIN:** Irritant to skin and mucous membranes.**ON THE EYE:** Irritating effect.**SENSITIZATION:** No sensitizing effects known.**ADDITIONAL TOXICOLOGICAL INFORMATION:** The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: *HARMFUL. IRRITANT.***SECTION 12 – ECOLOGICAL INFORMATION****ADDITIONAL ECOLOGICAL INFORMATION****GENERAL NOTES:** Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.**SECTION 13 – DISPOSAL CONSIDERATIONS****PRODUCT:****RECOMMENDATION:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.**UNCLEANED PACKAGINGS:****RECOMMENDATION:** Disposal must be made according to official regulations.

**SECTION 14 – TRANSPORT INFORMATION****DOT REGULATIONS**

HAZARD CLASS: -

IDENTIFICATION NUMBER: N/R

**LAND TRANSPORT ADR/RID (CROSS-BORDER)**

ADR/RID CLASS: -

UN-NUMBER: N/A

**MARITIME TRANSPORT IMDG**

IMDG CLASS: -

UN-NUMBER: N/A

MARINE POLLUTANT: No

**AIR TRANSPORT ICAO-TI AND IATA-DGR**

ICAO/IATA CLASS: -

UN/ID NUMBER: N/A

**SECTION 15 – REGULATORY INFORMATION****SARA SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):** None of the ingredients is listed.**SARA SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):** All ingredients are listed.**TSCA (TOXIC SUBSTANCES CONTROL ACT):** All ingredients are listed.**PROPOSITION 65 - CHEMICALS KNOWN TO CAUSE CANCER:** None of the ingredients is listed.**CANCEROGENICITY CATEGORIES****EPA (ENVIRONMENTAL PROTECTION AGENCY):** None of the ingredients is listed.**IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):** None of the ingredients is listed.**NTP (NATIONAL TOXICOLOGY PROGRAM):** None of the ingredients is listed.**NIOSH-Ca (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH):** None of the ingredients is listed.**OSHA-Ca (OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION):** None of the ingredients is listed.**MARKINGS ACCORDING TO EU GUIDELINES:** The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.**CODE LETTER AND HAZARD DESIGNATION OF PRODUCT:** *HARMFUL***HAZARD-DETERMINING COMPONENTS OF LABELING:** 3,3-DICHLORO-1,1,1,2,2-PENTAFLUOROPROPANE**RISK PHRASES:** Harmful by inhalation. Irritating to eyes and skin.**SAFETY PHRASES:** Keep container tightly closed in a cool place. Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapor/spray. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of as hazardous waste.**NATIONAL REGULATIONS****Technical Instructions (air):** Class: NK

Share in %: 20.0

**SECTION 16 – OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.