










MATERIAL SAFETY DATA SHEET

Page 1 of 6

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Contact Cleaner DAC-405 - Aerosol		DATE: June 18, 2010				
PRODUCT NUMBER: DAC -405						
TRADE NAME: Contact Cleaner DAC-405 - Aerosol GENERAL USE: Cleaner CHEMICAL FAMILY: Mixture PRODUCT DESCRIPTION: Clear Liquid Solvent Odor						
MANUFACTURER: DAC Industries, Inc.						
TELEPHONE NUMBER (General Inquiries): (651) 748-1750		DATE PREPARED: June 18, 2010 SUPERSEDES: March 31, 2010				
ADDRESS (NUMBER, STREET, P.O. BOX): 1636 Gervais Avenue Suite 9		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS				
(CITY, STATE AND ZIP CODE): Maplewood, MN 55109		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center;">  </td> <td style="width: 33%; text-align: center;"> 1-800-255-3924 North America (Toll Free) </td> <td style="width: 33%; text-align: center;"> 813-248-0585 International and Local Calls </td> </tr> </table>			1-800-255-3924 North America (Toll Free)	813-248-0585 International and Local Calls
	1-800-255-3924 North America (Toll Free)	813-248-0585 International and Local Calls				
COUNTRY: USA						

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
Aerosol product containing flammable propellant being heavier than air, this product may collect in any confined space and may reach concentrations presenting an asphyxiation or safety hazard and may be ignited by pilot lights, other flames, sparks, heaters electric motors, static discharge or other sources of ignition. Do not puncture or incinerate. Do not store at temperatures exceeding 120°F(49°C). Product may irritate skin and eyes.			
US HAZARD SYMBOL(S)	CANADA (WHMIS)	EUROPEAN	(GHS) HAZARD SYMBOLS
			
HMIS HAZARD RATINGS			
0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE 3 = HIGH, 4 = EXTREME * - CHRONIC HEALTH HAZARD		HEALTH: 1 FLAMMABILITY: 4 PHYSICAL HAZARD: 0	
REQUIRED PERSONAL PROTECTIVE EQUIPMENT:			
HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: B			Safety Glasses with protective side shields and gloves are suggested when using this product.

RISK PHRASES
R12 Extremely Flammable. R38 Irritating to skin. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness.
SAFETY PHRASES
S2 Keep out of the reach of children. S9 Keep container in a well-ventilated place. S16 Keep away from sources of ignition-No smoking. S33 Take precautionary measures against static discharges. S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions/safety data sheets. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

MATERIAL SAFETY DATA SHEET

Page 2 of 6

PRODUCT NAME:	Contact Cleaner DAC-405 - Aerosol				
PRODUCT NUMBER:	DAC -405	DATE: June 18, 2010			
SECTION 2 - HAZARDS IDENTIFICATION (Continued)					
POTENTIAL HEALTH EFFECTS					
INHALATION: High concentrations of vapors or mists may cause irritation of the respiratory tract. Inhalation of vapor may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness, or death from asphyxiation, depending upon concentration and period of exposure.					
SKIN: May cause mild skin irritation. Prolonged or repeated contact may cause redness, burning, and drying and cracking of skin and possible dermatoses.					
EYES: May cause mild eye irritation. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing and redness.					
INGESTION: May cause irritation of the gastrointestinal tract with nausea, vomiting, and diarrhea.					
CARCINOGENICITY: <div style="display: flex; justify-content: space-between;"> <div>NTP? NO CALIFORNIA, Prop.65?</div> <div>IARC MONOGRAPHS? NO NO</div> <div>OSHA REGULATED? NO ESIS NOTATION? NO</div> </div>					
SECTION 3 - HAZARDOUS INGREDIENTS					
Hazardous Components	%(by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 2)
Propane	20-30	74-98-6	200-827-9	+F	R12
n-Butane	50-60	106-97-8	203-448-7	+F	R12
Isohexane	60-70	107-83-5	203-523-4	F,Xn,N	R11,R38,R51/53, R65,R67
Isopropyl Alcohol	<10	67-63-0	200-661-7	+F, Xi	R11,R36,R67
NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 91/155/EEC. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.					
SECTION 4 - FIRST AID MEASURES					
INHALATION: Remove to fresh air, apply artificial respiration if breathing has stopped. Consult a physician immediately.					
EYES: Remove contact lenses. Flush eyes well with clean potable water for at least 15 minutes. Consult a physician if irritation persists.					
SKIN: Wash with soap and water. Remove soaked clothing to avoid prolonged skin contact. Consult a physician if irritation persists.					
INGESTION: Do not induce vomiting, as risk of aspiration exists with this product, give 1 or 2 glasses of water to drink. Consult a physician or poison control center immediately. Treatment is dependent on amount ingested and the condition of the patient.					

MATERIAL SAFETY DATA SHEET

Page 3 of 6

PRODUCT NAME:	Contact Cleaner DAC-405 - Aerosol							
PRODUCT NUMBER:	DAC -405	DATE: June 18, 2010						
SECTION 5 - FIRE FIGHTING MEASURES								
GENERAL HAZARDS:								
<p>Aerosol propellant is extremely flammable! Flash Point =<-156°F estimate. Products of combustion include compounds of carbon, hydrogen and oxygen. Gas may cause a flash fire or ignite explosively. Gas may travel a considerable distance to a source of ignition and flash back. Product Flammability Category: Non-Flammable (Reference-USA Consumer Product Commission, flame projection test for aerosol products, per 16 CFR 1500.45).</p>								
EXTINGUISHING MEDIA:								
Carbon dioxide, dry chemical, fine water spray.								
FIRE FIGHTING PROCEDURES:								
Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode in enclosed areas. 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. Caution - Propellant is extremely flammable! Avoid possible bursting of aerosol can. Do not store where temperatures exceed 120°F (49°C). Do not puncture or incinerate.								
HAZARDOUS COMBUSTION PRODUCTS:								
Incomplete combustion may produce Carbon Monoxide, and Carbon Dioxide.								
SECTION 6 - ACCIDENTAL RELEASE MEASURES								
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:								
Eliminate all sources of ignition from area; ventilate area. Remove with absorbent material or flush or vacuum into a safe container. Dike large spills. Do Not Flush This Product To Sewers or Other Watercourses.								
SECTION 7 - HANDLING AND STORAGE								
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:								
Do not store at temperatures above 120°F (49°C). Store away from fire, sparks , flame or other sources of ignition. Store in a cool dry place. Do not smoke while using this product. Do not spray in direction of body. Use only in accordance with directions.								
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION								
HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	PEL ppm	PEL mg/m3
Propane	1000	1800	NR	NR	1000	NR	1000	1800
n-Butane	800	1900	NR	NR	1000	NR	NR	NR
Isohexane	100	350	NR	NR	500	1800	500	1800
Isopropyl Alcohol	400	980	2000 IDLH	1225	200	NE	400	980
PERSONAL PROTECTION								
RESPIRATORY PROTECTION:								
Not normally required for routine use. If TLV is exceeded wear NIOSH or European EN149 approved respirator suitable for organic vapors removal. Provide adequate area ventilation during use.								
PROTECTIVE GLOVES:								
Use solvent resistant gloves for prolonged use. Gloves not required during normal use.								
EYE PROTECTION:								
Safety glasses or chemically protective goggles required during use.								
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:								
Not required.								
WORK / HYGIENIC PRACTICES:								
Observe standard industrial hygiene practices during use, do not eat, drink, smoke during use. Wash hands with soap and water before eating drinking or smoking.								






MATERIAL SAFETY DATA SHEET

Page 4 of 6

PRODUCT NAME: Contact Cleaner DAC-405 - Aerosol		DATE: June 18, 2010	
PRODUCT NUMBER: DAC -405			
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOR Clear Liquid Solvent Odor.		VAPOR PRESSURE Pressure in can 65 psig @70°F,21°C.	
pH NR		SPECIFIC GRAVITY (WATER = 1) <1.0	
Boiling Range (-43.7- +145°F)		SOLUBILITY IN WATER Negligible.	
FLASH POINT (<-156°F estimated for propellant).		VISCOSITY NR	
FLAMMABLE LIMITS LEL: 1.80% UEL: 9.50%		VAPOR DENSITY (AIR = 1) >1.0	
AUTOIGNITION TEMPERATURE NR		EVAPORATION RATE (WATER = 1) >1.0	
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION 100% approx.			
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY Product is stable under normal conditions of use.		CONDITIONS TO AVOID: Heat, sparks, open flames or other sources of ignition.	
INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with strong oxidizers and acids.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon Monoxide, Carbon Dioxide.			
HAZARDOUS POLYMERIZATION: Will not occur.		CONDITIONS TO AVOID: None related to polymerization.	
SECTION 11 - TOXICOLOGICAL INFORMATION			
Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Propane	74-98-6	NE	NE
	200-827-9		
n-Butane	106-97-8	NE	658 mg / L / 4 hours (Inhalation, rat)
	203-448-7		
Isohexane	107-83-5	NE	NE
	203-523-4		
Isopropyl Alcohol	67-63-0	4396 mg/kg (Oral, rat)	72.6 mg/L / 4 hour (Inhalation, rat)
	200-661-7		
SECTION 12 - ECOLOGICAL INFORMATION			
No information available on complete product. Isohexane can cause harm when released in aquatic environments; do not discharge product into bodies of water or sewage systems.			
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 Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals.			

MATERIAL SAFETY DATA SHEET

Page 5 of 6

PRODUCT NAME: Contact Cleaner DAC-405 - Aerosol		DATE: June 18, 2010
PRODUCT NUMBER: DAC -405		
SECTION 14 - TRANSPORT INFORMATION		
PROPER SHIPPING NAME: ORM-D Consumer Commodity (USA), Aerosols, flammable, UN 1950(contains propane /butane/ isohexane / isopropanol) (International/ Sea / Air / Bulk Liquid)		
DOT HAZARD CLASS / Pack Group: ORM-D Consumer Commodity (Ground/ US Only).		IATA HAZARD CLASS / Pack Group: Aerosols, Flammable 2.1. 75Kg Passenger, 150Kg Cargo.
REFERENCE: 49CFR, IATA, IMDG, EU.		IMDG HAZARD CLASS: Aerosols Flammable 2.1
UN / NA IDENTIFICATION NUMBER: UN1950		RID/ADR Dangerous Goods Code: 5F.
LABEL: ORM-D Consumer Commodity(USA Ground) Flammable Gas 2.1 (Intl/Air/Sea)		UN TDG Class / Pack Group: 2.1
HAZARD SYMBOLS: <div style="display: flex; justify-content: space-around; align-items: center;">   </div>		Hazard Identification Number (HIN): 23
<p>Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.</p>		
SECTION 15 - REGULATORY INFORMATION		
TSCA (USA - Toxic Substance Control Act): Ingredients listed.		
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):		
Acute Health: NO	Chronic Health: NO	
Fire: Yes	Sudden Release of Pressure: Yes	
Reactive: NO		
SARA 313 REPORTABLE INGREDIENTS: None listed.		
CERCLA (USA - Comprehensive Response Compensation and Liability Act):		No ingredients are listed.
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:		Not Listed.
State Right To Know: Isopropyl alcohol, CAS# 67-63-0, is listed on the following RTK lists: California, New Jersey, Florida, Pennsylvania, Minnesota & Massachusetts.		
CCPR (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: B1, D2B		  
IDL (Canadian Ingredient Disclosure List): Listed		
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):		Listed on DSL
EINECS (European Inventory of Existing Commercial Chemical Substances):		Referenced
WGK Water Quality Index: 1		

MATERIAL SAFETY DATA SHEET

Page 6 of 6

PRODUCT NAME: Contact Cleaner DAC-405 - Aerosol
PRODUCT NUMBER: DAC -405 **DATE:** June 18, 2010

SECTION 16 - OTHER INFORMATION

Legend:

ACGIH American Congress of Government Industrial Hygienists
CAS Chemical Abstracts Service
EINECS European Inventory of Existing Commercial Chemical Substances
HMIS Hazardous Materials Identification System
IARC International Agency for Research on Cancer
NA Not Available ND Not Determined NE Not Established NR Not Reported
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicology Program
OSHA Occupational Safety and Health Administration

REVISION SUMMARY:

Revised to USA (ANSI), Canadian, EU. And GHS standards 6/18/2010. LB

MSDS Prepared by:

ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com



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.