

MATERIAL SAFETY DATA SHEET

SLIDE PRODUCTS, INC.  
430 S. WHEELING ROAD  
WHEELING, IL 60090

PRODUCT NAME: SLIDE VERI-KLEEN CONTACT CLEANER

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**SECTION I. IDENTIFICATION**

CHEMICAL NAME: PENTFLUOROPROPANES  
CHEMICAL FAMILY: SAME  
FORMULA: 54713  
SYNONYMS: CONTACT CLEANER  
DOT HAZARD CLASSIFICATION: ORM-D  
DOT SHIPPING NAME: CONSUMER COMMODITY  
CHEMICAL ABSTRACT REGISTRY NUMBER: N/A, MIXTURE  
IDENTIFICATION NUMBER: NONE  
H.M.I.S. RATING: 1,0,0,B

**SECTION II. PHYSICAL DATA**

BOILING POINT: N/A  
SPECIFIC GRAVITY (H2O =1): 1.256  
WEIGHT PER GALLON @ 70F: 10.49  
VAPOR PRESSURE @ 70 F. (MM HG): N/A  
VAPOR DENSITY (AIR = 1): HEAVIER THAN AIR  
SOLUBILITY IN WATER, % BY WT.: NOT SOLUBLE  
PERCENT VOLATILE BY WEIGHT: 100.00  
EVAPORATION RATE (MINUTES): FASTER THAN ETHER  
APPEARANCE AND ODOR: CLEAR, OILY, COLORLESS LIQUID, SLIGHT ODOR

**SECTION III. HAZARDOUS INGREDIENTS**

MATERIAL:	APPROX. WT. %:	CAS NUMBER:	PEL(OSHA):
1,1,1,2,-TETRAFLUORETHANE	30	811-97-2	1000 PPM
3,3-DICHLORO-1,1,1,2,2-PENTAFLUOROPROPANE	35	422-56-0	100PPM*
1,3-DICHLORO-1,1,2,2,3-PENTAFLUOROPROPANE	35	507-55-1	100PPM*

CONTAINS NO OZONE DEPLETING CHEMICALS  
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA DIRECTORY  
\*OSHA PEL AND ACGIH TLV NOT ESTABLISHED. SOLVENT MANUFACTURER RECOMMENDS A WORKPLACE EXPOSURE GUIDELINE OF 100 PPM 8 HOUR. TWA BASED ON THE SCIENTIFIC ASSESSMENT OF SOLVENT MIXTURE AND OTHER EXISTING TOXICOLOGICAL DATA.

**SECTION IV. FIRE AND EXPLOSION HAZARD DATA**

FLAMMABLE LIMITS IN AIR: LEL: UEL: (VOLUME %)  
FLASH POINT: N/A  
AEROSOL FLAME PROJECTION TEST: NONFLAMMABLE AS DETERMINED BY THE AEROSOL FLAME PROJECTION TEST. CONTAINS NO FLAMMABLE INGREDIENTS.  
EXTINGUISHING MEDIA: DRY CHEMICAL, CO2, FOAM  
SPECIAL FIRE FIGHTING PROCEDURES: SELF-CONTAINED BREATHING APPARATUS  
UNUSUAL FIRE & EXPLOSION HAZARDS: AEROSOLS MAY RUPTURE VIOLENTLY AT TEMPERATURES ABOVE 120 DEGREES F. VAPORS CAN FORM FLAMMABLE MIXTURE IN A NARROW RANGE OF 4.6% TO 8.5% BY VOLUME IN AIR.

**SECTION V. REACTIVITY DATA**

STABILITY: STABLE  
INCOMPATIBILITY (MATERIALS TO AVOID): ALKALINE EARTH METALS  
HAZARDOUS COMBUSTION BY-PRODUCTS: DECOMPOSITION PRODUCTS ARE HAZARDOUS  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITIONS TO AVOID: OPEN FLAMES AND HIGH TEMPERATURES

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**SECTION VI. HEALTH HAZARD DATA**

THRESHOLD LIMIT VALUE: 100 PPM\*

**EFFECTS OF OVEREXPOSURE**

INGESTION (SWALLOWING): MAY CAUSE IRRITATION OF MOUTH AND GASTRO-INTESTINAL TRACT  
INHALATION: EXCESSIVE INHALATION CAN PRODUCE DIZZINESS, NAUSEA AND HEADACHE  
SKIN CONTACT: CONCENTRATED SPRAY MAY CAUSE FREEZING OF SKIN AREA  
EYE CONTACT: TEMPORARY IRRITATION

**EMERGENCY AND FIRST AID PROCEDURES**

SKIN: WASH WITH SOAP AND WATER  
INHALATION: REMOVE TO FRESH AIR LOCATION  
EYES: FLUSH WITH PLENTY OF WATER, CALL PHYSICIAN  
INGESTION: DRINK WATER, DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION

**SECTION VII. SPILL OR LEAK PROCEDURES**

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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: REMOVE LEAKING CONTAINER TO OUTSIDE DISPOSAL SITE.  
WASTE DISPOSAL METHOD: EMPTY FULLY, INCLUDING GAS PRESSURE. DO NOT PUNCTURE OR INCINERATE. CAN MAY BE RECYCLED OR ALTERNATIVELY REMOVED TO A SANITARY LANDFILL IN MOST LOCALITIES. CHECK APPLICABLE REGULATIONS.

**SECTION VIII. SPECIAL PROTECTION INFORMATION**

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RESPIRATORY PROTECTION (SPECIFY TYPE): NOT NEEDED WITH ADEQUATE VENTILATION.  
VENTILATION: ADEQUATE VENTILATION NEEDED  
PROTECTIVE GLOVES: RECOMMENDED BUT NOT REQUIRED. DO NOT USE NATURAL RUBBER GLOVES  
EYE PROTECTION: PROPER EYE CARE SHOULD BE PRACTICED IN ALL INDUSTRIAL OPERATIONS  
OTHER PROTECTIVE EQUIPMENT: AS YOUR COMPANY REQUIRES

**SECTION IX. SPECIAL PRECAUTIONS**

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: STORE INDOORS AWAY FROM DIRECT SUNLIGHT, BELOW 120° F. DO NOT DROP, PUNCTURE OR INCINERATE.  
OTHER PRECAUTIONS: DO NOT SPRAY DIRECTLY INTO FLAME. DO NOT SMOKE WHILE USING PRODUCT.

**SECTION X. CARCINOGENIC HAZARD**

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NO COMPONENT IN THIS PRODUCT HAS BEEN LISTED AS A CARCINOGEN BY IARC, N.T.P., OSHA OR ACGIH.

**SECTION XI. SARA TITLE III REPORTING**

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THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS REQUIRED TO BE REPORTED UNDER SARA TITLE III, SECTION 313: NONE

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THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESS OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE, AND DETERMINE WHETHER THEY ARE APPROPRIATE. THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS BELIEVED TO BE CORRECT AS OF THIS DATE. THE REGULATIONS PROMULGATED BY OSHA FOR HAZARD COMMUNICATION, 29 CFR 1910.1200, AS WELL AS SEVERAL STATE AND LOCAL LAWS AND REGULATIONS, HAVE BEEN CONSULTED IN PREPARING THIS M.S.D.S.

<http://www.slideproducts.com/cleaners.htm>