

PRODUCT NAME: SOLUTION 525 CONTACT CLEANER
PRODUCT CODE: VIA-0029-003

HMIS CODES: H F R P
1 2 0

===== SECTION I - DISTRIBUTOR IDENTIFICATION =====

DISTRIBUTOR'S NAME : MRO SOLUTIONS
ADDRESS : 5645 W. HOWARD
NILES, IL 60714

EMERGENCY PHONE : 1-800-424-9300 DATE PREPARED : 04/17/00
INFORMATION PHONE : 1-847-588-2480 NAME OF PREPARER : ESP

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
1,1-DICHLORO-1-FLUOROETHANE OSHA PEL: NOT ESTABLISHED; ACGIH TLV: NOT ESTABLISHED.	1717-00-6	500 68	90
2-PROPANOL, ISOPROPYL ALCOHOL OSHA PEL: 400 PPM, ACGIH TLV: 400 PPM	67-63-0	33 68	6
CARBON DIOXIDE OSHA PEL: 10000 PPM, ACGIH TLV: 5000 PPM	124-38-9	38650 60	4

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 89.6 F - 177 deg F SPECIFIC GRAVITY (H2O=1): 1.19
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
SOLUBILITY IN WATER: NIL
APPEARANCE AND ODOR: AEROSOL PRODUCT

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: NONE METHOD USED: TCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 2 UPPER: 15.5

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT PRESSURE BUILD-UP AND EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES PREFERRED. WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE FROM INTERNAL PRESSURE BUILD-UP WHEN EXPOSED TO EXTREME HEAT AND DISCHARGE CONTENTS. LIQUID CONTENT OF CONTAINER WILL NOT SUPPORT COMBUSTION. OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE READILY APPARENT. OBTAIN MEDICAL ATTENTION.

===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE
CONDITIONS TO AVOID
APPLICATION TO HOT SURFACES. STORAGE ABOVE 120 DEG F. EXPOSURE TO OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID)

FRESHLY ABRADED ALUMINUM SURFACES; ALUMINUM, MAGNESIUM, AND ZINC POWDERS;
CHEMICALLY ACTIVE METALS SUCH AS Na, K OR Ca.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

DECOMPOSITION FUMES MAY CONTAIN CARBON MONOXIDE, HALOGENS, HALOGEN ACIDS AND POSSIBLY CARBONYL HALIDES SUCH AS PHOSGENE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

NARCOSIS, ASPHYXIATION, LOSS OF CO-ORDINATION, INCREASED PULSE RATE, CARDIAC

SENSITIZATION, DEEPER RESPIRATION AND CARDIAC ARRHYTHMIA. DO NOT GIVE EPINEPHERINE OR SIMILAR DRUGS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
SKIN: PROLONGED CONTACT MAY CAUSE IRRITATION DUE TO DEFATTING. EYES: SAME AS SKIN.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
NOT EASILY ABSORBED. SOLVENT ACTION CAN DRY AND DEFAT THE SKIN CAUSING THE SKIN TO CRACK, LEADING TO DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
NOT A LIKELY ROUTE OF EXPOSURE. IF SWALLOWED, DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ADVICE AND/OR ATTENTION.

HEALTH HAZARDS (ACUTE AND CHRONIC)
ACUTE: EYE IRRITANT. SKIN IRRITANT. NARCOTIC IN HIGH CONCENTRATIONS. CHRONIC: NOT KNOWN.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES
INHALATION: REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF NEEDED. APPLY ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION. SKIN: WIPE OFF WITH TOWEL. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. EYES: WASH IMMEDIATELY WITH LARGE VOLUMES OF FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
AVOID BREATHING VAPORS. VENTILATE AREA. REMOVE ALL SOURCES OF IGNITION. CLEAN UP AREA WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BEFORE ATTEMPTING CLEAN UP, REFER TO OTHER SECTIONS OF THIS MSDS FOR HAZARD CAUTION INFORMATION.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
STORE AND USE IN COOL, DRY, WELL-VENTILATED AREAS. DO NOT STORE ABOVE 120 DEG F. DO NOT PUNCTURE OR INCINERATE (BURN) CANS. DO NOT STICK PIN, NAIL OR ANY OTHER SHARP OBJECT INTO OPENING ON TOP OF CAN. DO NOT SPRAY IN EYES. DO NOT TAKE INTERNALLY. SEE PRODUCT LABEL FOR ADDITIONAL INFORMATION.

OTHER PRECAUTIONS
THE STORAGE OF NON-FLAMMABLE PRODUCTS WITH NON-FLAMMABLE OR FLAMMABLE PRESSURIZING AGENT, IN CARTONS, IS THE SAME AS FOR ORDINARY CANNED GOODS IN CARTONS.

RESPIRATORY PROTECTION
NONE UNDER NORMAL USE. AVOID BREATHING VAPORS. IN RESTRICTED AREAS, USE APPROVED CHEMICAL/MECHANICAL FILTERS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPOR. IN CONFINED AREAS, USE APPROVED AIR LINE TYPE RESPIRATOR OR HOOD. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED FOR VAPOR CONCENTRATIONS ABOVE PEL/TLV LIMITS.

VENTILATION
SUFFICIENT TO PREVENT INHALATION OF SOLVENT VAPORS. GENERAL DILUTION AND/OR LOCAL EXHAUST VENTILATION IN VOLUME OR PATTERN TO KEEP PEL/TLV OF MOST HAZARDOUS INGREDIENT BELOW ACCEPTABLE LIMIT AND LEL BELOW STATED LIMIT.

PROTECTIVE GLOVES
NONE UNDER NORMAL USE. SOLVENT RESISTANT REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION
NONE UNDER NORMAL USE; HOWEVER, USE OF SAFETY GLASSES WITH SPLASH GUARDS OR FULL

FACE SHIELD IS RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
NONE UNDER NORMAL USE; HOWEVER, USE OF SOLVENT RESISTANT APRONS OR OTHER
CLOTHING IS RECOMMENDED.

WORK/HYGIENIC PRACTICES
EYE WASHES AND SAFETY SHOWERS IN THE WORKPLACE ARE RECOMMENDED.

===== SECTION IX - DISCLAIMER =====

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER,
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