



1801 Morgan Street
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MSDS Number: 146
 Revision Date: 1/05/2013
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MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: SERVICE CEMENT

SECTION I - PRODUCT INFORMATION

Product Type: Adhesive Solvent
 Product Name: **SERVICE CEMENT**
 Part Number(s): **10-302, 10-310, 10-310-4G**

Emergency Contact: Chemtrec
Phone: (800) 424-9300

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

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		MM HG @ TEMP		PERCENT
ETHYL ACETATE OSHA PEL: 400 PPM, ACGIH TLV: 400 PPM	141-78-6	86	68	30
CELLULOSE NITRATE	9004-70-0	41.6	68	20
* TOLUENE ACGIH TLV: 100 PPM	108-88-3	38	68	13.20
ISOPROPANOL ACGIH TLV: 400 PPM	67-63-0	31.2	68	15
ACETONE ACGIH TLV: 750 PPM	67-64-1	185	68	10
BUTYL ACETATE ACGIH TLV: 100 PPM	123-86-4	10	68	5

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

*****ALL COMPONENTS OF THIS PRODUCT ARE TSCA REGISTERED.***** DOT DESCRIPTION: PAINT, 3, UN1263, PG II

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

BOILING POINT: 132 deg F
VAPOR DENSITY: HEAVIER THAN AIR
COATING V.O.C.: 5.272 lb/g1
SOLUBILITY IN WATER: SLIGHT
APPEARANCE AND ODOR:

SPECIFIC GRAVITY (H2O=1): .9644
EVAPORATION RATE: SLOWER THAN ETHER
MATERIAL V.O.C.: 5.272 lb/g1



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: -4 deg F METHOD USED: T.C.C.
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.2 UPPER: 12.8

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

SPECIAL FIREFIGHTING PROCEDURES

KEEP CONTAINERS IN STORAGE COOL WITH WATER TO PREVENT PRESSURE BUILD UP AND BURSTING OF CONTAINERS. SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN TO PROTECT FIREFIGHTERS FROM TOXIC DEGRADATION PRODUCTS.

UNUSUAL FIRE AND EXPLOSION HAZARDS

DRY NITROCELULOSE RESIN IS EXTREMELY FLAMMABLE AND BURNS EXPLOSIVELY. AVOID FRICTION AND IMPACT TO ANY QUANTITY OF DRY RESIN. BURNING RATE INCREASES WITH QUANTITY AND CONFINEMENT. TOXIC DEGRADATION PRODUCTS INCLUDE OXIDES OF NITROGEN, CO AND CO2. DENSE TOXIC SMOKE IS FORMED WHEN MATERIAL BURNS.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID

HEAT, SPARKS, FLAMES AND OTHER SOURCES OF IGNITION. AVOID ALLOWING UNMODIFIED RESIN TO BECOME DRY.

INCOMPATIBILITY (MATERIALS TO AVOID)

STRONG OXIDISERS, ACIDS, BASES AND AMINES. HALOGENATED OXIDIZERS PRESENT PARTICULARLY ACUTE INCOMPATIBILITY.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

OXIDES OF NITROGEN, CARBON MONOXIDE, CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

HEADACHE, LETHARGY, DROWSINESS, WEAKNESS, DIFFICULTY WALKING, PERSONALITY CHANGE, POOR APPETITE, NAUSEA AND WEIGHT LOSS. PROLONGED EXPOSURE TO VAPORS IN CONCENTRATIONS IN EXCESS OF TLV CAN CAUSE DAMAGE TO KIDNEYS, BLOOD AND NERVOUS SYSTEM.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

LIQUID MAY CAUSE EYES TO BECOME IRRITATED. MAY BE MILDLY IRRITATING TO SKIN AND CAUSE BURNING SENSATION. REPEATED CONTACT WITH SKIN MAY CAUSE DEFATTING OF EPIDERMIS AND DERMATITIS.



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

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

PROLONGED ABSORPTION OF MATERIAL THRU SKIN COULD CAUSE DAMAGE TO BLOOD,KIDNEYS AND NERVOUS SYSTEM. ABSORPTION THRU SKIN IS INDICATED BY REDNESS AND ROUGHNESS OF AFFECTED AREA.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

HEADACHE,LETHARGY,DROWSINESS, WEAKNESS, DIFFICULTY WALKING, PERSONALITY CHANGE, POOR APPETITE,NAUSEA AND WEIGHT LOSS MAY CAUSE GASTROINTESTINAL IRRITATION AND VOMITING.

HEALTH HAZARDS (ACUTE AND CHRONIC)

VAPOR IRRITATING TO EYES,NOSE AND THROAT.LIQUID IRRITATING TO EYES AND SKIN.PROLONGED AND REPEATED EXPOSURE TO VAPOR CONCENTRATIONS IN EXCESS OF TLV OR THRU PROLONGED ABSORPTION THRU SKIN MAY CAUSE DAMAGE TO BLOOD,KIDNEYS AND NERVOUS SYSTEM. MAY IRRITATE GASTROINTESTINAL TRACT. MAY PRODUCE UNCONCIOUSNESS.CHRONIC OVEREXPOSURE BY INHALATION OR INGESTION MAY PRODUCE HEADACHE, NAUSEA VOMITING, COUGH, LOSS OF BALANCE AND VISUAL DISTURBANCES.

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

NOT CONSIDERED A CARCINOGEN BY ACGIH,NTP OR IARC

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING,GIVE ARTIFICIAL RESPIRATION. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET PROFESSIONAL MEDICAL ATTENTION IMMEDIATELY. EYE OR SKIN CONTACT: IMMEDIATELY FLUSH WITH PLENTY OF FRESH WATER.REMOVE CONTAMINATED SHOES AND CLOTHING.GET MEDICAL ATTENTION.DO NOT REUSE CLOTHING OR SHOES UNTIL CLEANED. INGESTION: DO NOT INDUCE VOMITING.IF VOMITING OCCURS,KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION INTO LUNGS.



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

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

IMMEDIATELY ELIMINATE ALL POSSIBLE SOURCES OF IGNITION. USE AN APPROPRIATE ABSORBENT. LARGE SPILLS MAY BE FLUSHED INTO A SUITABLE CONTAINMENT AREA WITH WATER. DO NOT USE FERROUS TOOLS TO SCRAPE MATERIAL FROM FLOOR OR OTHER SURFACES: SEE BELOW

WASTE DISPOSAL METHOD

DISPOSAL OF THIS MATERIAL IS REGULATED BY FEDERAL, STATE, AND LOCAL HAZARDOUS WASTE REGULATIONS. PLEASE CONSULT APPROPRIATE AGENCIES FOR CURRENT INFORMATION. HAZARDOUS LIQUIDS MUST BE INCINERATED. ANY SOLID ABSORBENT OR RESIDUAL MATERIAL RECOVERED FROM A SPILL MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP CONTAINERS TIGHTLY CLOSED, COOL, DRY AND AWAY FROM SOURCES OF HEAT, SPARKS AND IGNITION. REMEMBER: DRY NITROCELLULOSE IS EXTREMELY FLAMMABLE; AVOID ACCUMULATING LARGE QUANTITIES OF DRY RESIN. DRY RESIN MAY IGNITE FROM SPARKS OR FLAME. USE WITH ADEQUATE VENTILATION.

OTHER PRECAUTIONS

USE ONLY NONSPARKING TOOLS.

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

USE A NIOSH APPROVED CARTRIDGE RESPIRATOR FOR VAPOR CONCENTRATIONS ABOVE THE WEIGHTED AVERAGE TLV.

VENTILATION

MECHANICAL OR SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED TO KEEP VAPOR CONCENTRATIONS BELOW TLV.

PROTECTIVE GLOVES

CHEMICAL RESISTANT GLOVES AND APRON ARE RECOMMENDED.

EYE PROTECTION

FACE SHIELD OR GOGGLES REQUIRED. EYE WASH AND SAFETY SHOWER IN THE WORKING AREA ARE RECOMMENDED.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

CHEMICAL RESISTANT APRON, CONDUCTIVE SOLE SHOES, CLOTHING OF COTTON OR OTHER FABRIC NOT PRONE TO STATIC BUILD UP ARE ALL RECOMMENDED.

WORK/HYGIENIC PRACTICES

N/A



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

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