

EMS CATALOG NO: 12691-30
EMS PRODUCT: Graphite Conductive
Adhesive 154
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MATERIAL SAFETY DATA SHEET

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FOR PRODUCT AND SALES INFORMATION

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PRODUCT IDENTIFICATION

PRODUCT NAME: Graphite Conductive Adhesive 154
TRADE NAME AND SYNONYMS: Electrodag 154
CHEMICAL NAME: Mixture
CHEMICAL FAMILY: Graphite in Solvents

OSHA REGULATED INGREDIENTS

C.A.S. REG. NO.	MATERIAL	WT. %	EXPOSURE LIMIT
67-63-0	Isopropanol	66.00	400.00 ppm
7782-42-5	Graphite	15.00	15.00 mppcf
71-36-3	n-Butyl Alcohol	5.00	100.00 ppm
107-41-5	Hexylene Glycol	5.00	25.00 ppm
107-98-2	Propylene Glycol Methyl Ether	5.00	100.00 ppm

PHYSICAL DATA

BOILING POINT: N/A VAPOR PRESSURE: 31.00
VAPOR DENSITY: N/A EVAPORATION RATE: N/A
MELTING POINT: N/A VOLATILE: 80.0
SPECIFIC GRAVITY: .89 SOLUBILITY IN H2O: Partial

V.O.C.: 0710 G/L, Reduced VOC: 773 G/L, (1.0/ 2.0/ Coating/Reducer/
) (VOC METHOD=EPA 24)

APPEARANCE/ODOR: Thixotropic Black Fluid; Sharp Odor.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 52oF

FLAMMABLE (EXPLOSIVE) LIMITS: Upper N/A - Lower N/A

METHOD: Tag Closed Cup.

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing supply.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep away from sparks, open flames or other sources of ignition.

HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION: Excessive inhalation of vapors or mists can cause nasal and respiratory irritation, dizziness, nausea, headache.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

EYE: May cause severe irritation, burning sensation, blurred vision.

SKIN: Repeated or prolonged contact can cause irritation and dermatitis.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION:

If affected, remove individual to fresh air; if breathing is difficult, administer oxygen; if breathing has stopped, give artificial respiration and seek medical attention immediately.

INGESTION: Keep individual calm and seek medical attention.

EYE: Flush eyes with water, lifting upper and lower lids occasionally, and seek medical attention immediately.

SKIN: Wash with soap and water; remove contaminated clothing and launder before reuse.

REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: Stable.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None

INCOMPATIBILITY (MATERIALS TO AVOID): Strong Oxidizers.

HAZARDOUS DECOMPOSITION TO PRODUCTS: CO, CO2

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition and ventilate area; apply absorbent material and transfer to containers.

WASTE DISPOSAL METHOD:

Consult with Federal, State and local waste regulations.

SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS:

Provide sufficient mechanical ventilation to maintain exposure below TLV(s).

PROTECTIVE EQUIPMENT:

EYE: Wear chemical splash goggles.

GLOVE: Wear solvent resistant gloves.

RESPIRATOR: If the TLV of the product is exceeded, a mechanical or self-contained breathing apparatus is advised.

OTHER: No special equipment deemed necessary under normal usage.

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid prolonged inhalation of mists or vapors.