

**MATERIAL SAFETY DATA SHEET**  
(COMPLIES WITH 29 CFR 1910.1200 HAZARD COMMUNICATION STANDARD)

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(CHEMTREC - 24 HOURS/DAY)  
PREPARED: OCTOBER 28, 1996  
SUPPERCEDES: APRIL 28, 1993

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**SECTION I: PRODUCT IDENTIFICATION**  
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MSDS REFERENCE NO.: R-12

PRODUCT NUMBER: 50154

PRODUCT NAME: PERMANENT SEALER 974 TRAFFIC DETECTOR LOOP SEALANT, BLACK  
(CODE: 974-B)

PRODUCT CLASS: SYNTHETIC RUBBER SEALANT

DOT HAZARD CLASSIFICATION: ADHESIVE FLAMMABLE LIQUID UN 1133

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**SECTION II: INGREDIENTS**  
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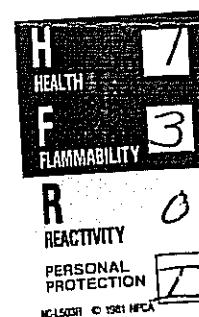
INGREDIENT	CAS#	PERCENT	TLV(ppm)	PEL(ppm)	NOTE
METHYL ISOBUTYL KETONE	108-10-1	35-45	200	300	1
SYNTHETIC RUBBER	9003-18-3	19-30	N/A	N/A	
PHENOLIC RESIN	25054-06-2	14-20	N/A	N/A	
TALC	14807-96-6	15-21	N/A	N/A	
CARBON BLACK	1333-86-4	<1.0	N/A	N/A	

NOTE 1: THIS CHEMICAL IS LISTED BY SARA TITLE 313.

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**SECTION III: PHYSICAL DATA**  
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BOILING RANGE: 114 - 117 C  
% VOLATILE BY WEIGHT: 35 - 45 %

VAPOR DENSITY: HEAVIER THAN AIR  
EVAPORATION RATE: SLOWER THAN ETHER  
WEIGHT/GAL: 8.4 - 8.7 LBS



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flammability Classification      FLASH POINT 60°F      LEL 1.2%  
OSHA:      Flammable liquid - Class. IB  
DOT:      Flammable liquid.

EXTINGUISHING MEDIA:

CO<sub>2</sub>     DRY CHEMICAL     WATER FOG     FOAM     ALCOHOL FOAM  
 OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

SPECIAL FIREFIGHTING PROCEDURES: Self-Contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode.

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SECTION V - HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE:

EYES: Can cause severe irritation, redness, tearing, blurred vision.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

BREATHING: Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

SWALLOWING: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lung can cause chemical pneumonitis which can be fatal.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Emphysema, bronchitis, chapped hands.

PRIMARY ROUTE (S) OF ENTRY:     DERMAL     INHALATION     INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

IF ON SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

IF IN EYES: Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.

IF SWALLOWED: Do not induce vomiting, keep person quiet, and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

IF BREATHED: If affected remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention.

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## SECTION VI - REACTIVITY DATA

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STABILITY      Stable      Unstable  
HAZARDOUS POLYMERIZATION      May Occur      Will Not Occur  
HAZARDOUS DECOMPOSITION PRODUCTS     CO, CO<sup>2</sup>  
CONDITIONS TO AVOID: Flame, Sparks, Heat, Lack of Ventilation  
INCOMPATIBILITY (MATERIALS TO AVOID)     Strong Oxidizing Agents

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## SECTION VII - SPILL OR LEAK PROCEDURES

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

SMALL SPILL - Absorb all liquid on paper, vermiculite, floor absorbent or other absorbent material and transfer to hood.

LARGE SPILL - Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or any other absorbent material and shoveled into containers.

### WASTE DISPOSAL METHOD:

SMALL SPILL - Allow volatile portion to evaporate in hood. Allow sufficient time for vapors to completely clear hood duct work. Dispose of remaining material in accordance with applicable regulations.

LARGE SPILL - Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

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## SECTION VIII - SAFE HANDLING AND USE INFORMATION

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RESPIRATORY PROTECTION: If TLV of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV (S).

PROTECTIVE GLOVES: Wear resistant gloves such as nitrile rubber.

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses.

OTHER PROTECTIVE EQUIPMENT: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

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## SECTION IX - SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: This is a red label material. Store in accordance with the fire codes in your area. Store away from heat. In case of a nearby fire, cool drums with water and remove as soon as possible.

OTHER PRECAUTIONS: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions in this data sheet must be observed.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with W.J. Ruscoe or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.