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**MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS, AND RELATED MATERIALS**

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: XS-3509-N

PRODUCT NAME: XS-3509-N

PRODUCT CLASS: Tire Patch Adhesive

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT(S): | PERCENT: | OCCUPATIONAL | | VAPOR |
|--------------------------|----------|------------------|--------|----------------|
| | | EXPOSURE LIMITS: | PEL | PRESSURE: |
| Heptane Cas# 142-82-5 | 96.0 | 400ppm | 500ppm | 45mmHg @ 20 C. |

SECTION III - PHYSICAL DATA

Evaporation Rate: Faster than Ether
 Slower than Ether

Vapor Density: Heavier than Air
Lighter than Air

BOILING RANGE: 180-212 F.

WT/GAL: 6.0 #

NONVOLATILES: 4.0 % WT.

LBS. VOC/GAL. COATING AS SUPPLIED: 5.76

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA: Class IB **FLASH POINT:** 25, TCC F.
DOT: Flammable LEL: 1

EXTINGUISHING MEDIA: X FOAM X CO2 WATER FOG
"ALCOHOL FOAM" X DRY CHEMICAL OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Flashback along vapor trail may occur. This material is extremely flammable and may be ignited by heat, sparks, flame or static electricity.

SPECIAL FIREFIGHTING PROCEDURES:

The use of a SCBA is recommended for fire fighters. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:**EYE CONTACT:**

This material may cause eye irritation. Direct contact with the liquid or exposure to its vapors or mists may cause burning, tearing and redness.

SKIN CONTACT:

This material may cause skin irritation, prolonged or repeated exposure to this material may cause redness, burning, and drying and cracking of the skin. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

INHALATION:

Breathing high concentrations of vapors or mists may cause: irritation of the nose and throat. Signs of nervous system depression (E.G., drowsiness, dizziness, loss of coordination, and fatigue). Irregular heartbeats (arrhythmias). Respiratory symptoms associated with pre-existing lung disorders (E.G., asthma-like conditions) may be aggravated by exposure to this material.

INGESTION:

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Ingestion of excessive quantities may cause: irritation of the digestive tract. Signs of nervous system depression (E.G., drowsiness, dizziness, loss of coordination, and fatigue). Aspiration hazard - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

COMMENTS:

This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA.

Pre-existing heart disorders may be aggravated by exposure to this material.

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as solvent or painters' syndrome). Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Exposure of pregnant rats to isopropanol (2.5 % in drinking water) has been reported to be toxic to the developing fetus. There was no evidence of teratogenic potential. Fetotoxicity has not been reported in humans exposed to the material.

This material or its emissions may affect mucous tissue and/or aggravate mucous membrane dysfunction.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Preexisting eye, skin, and respiratory disorders, or preexisting impaired peripheral nerve function may be aggravated by exposure to this product.

PRIMARY ROUTE(S) OF ENTRY: X DERMAL X INHALATION INGESTION X EYE

EMERGENCY AND FIRST AID PROCEDURES:**EYE CONTACT:**

If irritation or redness from exposure to vapors develops, move victim away from exposure and into fresh air. If irritation or redness persists, seek medical attention. For direct contact, flush the affected eye(s) with clean water for 10-15 minutes. Seek medical attention.

SKIN CONTACT:

Remove contaminated clothing, cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION:

If symptoms of exposure develop (see section V), move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, artificial respiration should be administered. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

INGESTION:

Aspiration hazard: **DO NOT INDUCE VOMITING** or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious, place on the left side with head down. If possible, do not leave victim unattended. Seek medical attention.

COMMENTS:

* Note to physician: Epinephrine and other sympathomimetic drugs may potentiate cardiac arrhythmias in persons exposed to this chemical. These drugs should be used cautiously, if at all, and only with cardiac monitoring.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE STABLE

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

CONDITIONS TO AVOID:

Keep product away from heat, sparks, pilot lights, static electricity, and open flame. Strong oxidizing conditions.

INCOMPATIBILITY (MATERIALS TO AVOID):

This product is incompatible with strong acids or bases, oxidizing agents and selected amines.

SECTION VII - SPILL OR LEAK PROCEDURES

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

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter

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sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits use a NIOSH approved respirator to prevent overexposure.

VENTILATION:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see section II), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, systems safe for such locations should be used.

PROTECTIVE GLOVES:

The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation and absorption.

EYE PROTECTION:

Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

OTHER PROTECTIVE EQUIPMENT:

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

HYGIENIC PRACTICES:

Wash with soap and water.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

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Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. "Empty" containers should be completely drained, properly bunged and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

OTHER PRECAUTIONS:

For industrial use only.

SECTION X - REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS:

All chemicals found in this product comply with the Toxic Substance Control Act inventory reporting requirements.

EPA SARA TITLE III CHEMICAL LISTINGS:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME: _____ **CAS NUMBER:** _____
CONCENTRATION: _____

None

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