

*** MATERIAL SAFETY DATA SHEET ***

National Starch and Chemical Company
Finderna Avenue
P.O. Box 6500
Bridgewater, NJ 08807
Corporate and emergency telephone: 908-885-6000

1. PRODUCT IDENTIFICATION

PRODUCT NUMBER..... 72-7488
PRODUCT NAME..... TRAP-LOK (R) 72-7488
CHEMICAL FAMILY..... HOT MELT ADHESIVE
SYNONYM NAME(S)..... HOT MELT ADHESIVE

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	PERCENT	EXPOSURE LIMITS
HYDROTREATED HEAVY NAPHTHENIC OIL	84742-18-3	>1	5,000 mg/m ³ (ACGIH TWA) 10,000 mg/m ³ (ACGIH STEL) 5,000 mg/m ³ (OSHA PEL)

3. PHYSICAL DATA

PURE MATERIAL OR MIXTURE..... Mixture
APPEARANCE/PHYSICAL DESCRIPTION..... Light colored solid
PH AS IS..... N/A
PH IN 1% SOLUTION..... N/A
SOLUBILITY IN WATER..... >500 F
SPECIFIC GRAVITY (WATER = 1)..... Insoluble
BULK DENSITY..... 8.580
VOLATILITY..... Nil (Water)
EVAPORATION RATE..... Nil (Water)
VAPOR PRESSURE (mmHg)..... Nil at 20 C
VOLATILE ORGANIC COMPOUNDS..... Nil

4. FIRE AND EXPLOSION DATA

AUTOIGNITION..... UNKNOWN
FLASH POINT..... GREATER THAN 250 F Fahrenheit; Method: Setex/flash closed test
UPPER EXPLOSIVE LIMIT (%)..... Not applicable
LOWER EXPLOSIVE LIMIT (%)..... Not applicable
EXTINGUISHING MEDIA..... Fire (Fire chemical): Foam
SPECIAL FIREFIGHTING PROCEDURES..... Fire (Fire chemical): Foam self-contained breathing apparatus to protect against potentially toxic and irritating fumes
FIRE & EXPLOSION HAZARDS..... Combustion may release noxious or toxic vapors. See reactivity, section 7.
NFPA FLAMMABILITY HAZARD CLASS..... Not noted

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY..... Skin contact; Eye contact; Inhalation
ACUTE EFFECTS--EYE..... As applied; irritant as a foreign body.
ACUTE EFFECTS--SKIN CONTACT..... Exposure to hot material may cause
ACUTE EFFECTS--INHALATION..... No hazard in normal industrial use.
ACUTE EFFECTS--INGESTION..... No hazard in normal industrial use.
FIRST AID PROCEDURES.....
If hot: flush with cool water. Treat as wax or resin burn. Do not attempt to remove solidified adhesive. Get medical attention immediately. As

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5. HEALTH EFFECTS DATA (Continued)

SKIN CONTACT..... If hot: flush with cool water. Treat as wax or resin burn. Do not attempt to remove solidified adhesive. Get medical attention immediately. As applied: Non-hazardous. Remove to fresh air. Administer oxygen to aid breathing. Get medical attention. If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

LONG-TERM EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE..... Vapors may be mildly irritating to respiratory passages. Normally used at elevated temperatures. Stability of composition of vapors is variable and unpredictable, based on ambient conditions. Good ventilation is highly recommended. Skin; Eyes; Lungs; Gastrointestinal

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA guidelines)..... No

TOXICOLOGY INFORMATION

RAW MATERIAL NAME..... HYDROTREATED HEAVY NAPHTHENIC OIL
ORAL LD50, SPECIES TESTED..... >5,0 g/kg Rat
NOTES ON ORAL TOXICITY..... Low order of toxicity.
DERMAL LD50, SPECIES TESTED..... 24.0 g/kg Rabbit
NOTES ON DERMAL TOXICITY..... Prolonged contact may irritate the skin.
NOTES ON INHALATION TOXICITY..... Vapors and/or aerosols may cause irritation; aerosols may cause slightly irritating but does not injure eye tissue.

6. ECOLOGICAL INFORMATION

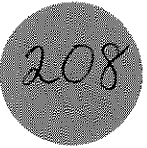
Not noted.

7. RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT

CONDITIONS UNDER WHICH PPE REQUIRED. Normal work conditions; Spill/Cleanup.
EYE PROTECTION REQUIREMENTS..... Wash face/eyes/repair
GLOVE REQUIREMENTS..... Thermally resistant gloves should be worn.
CLOTHING REQUIREMENTS..... To avoid burns, use long-sleeved, wash-resistant clothing.
CHANGE/REMOVAL OF CLOTHING..... Not long-sleeved.
WASHING REQUIREMENTS..... None required.
RESPIRATOR REQUIREMENTS..... None required under normal handling conditions. Use NIOSH approved respirator if vapor or mist levels are high.
VENTILATION REQUIREMENTS..... General: Local exhaust over glug chamber.

8. REACTIVITY

STABILITY..... Stable
INCOMPATIBILITY..... None known
REACTIVITY HAZARD CLASS..... 0 - Insignificant
HAZARDOUS DECOMPOSITION PRODUCTS..... Carbon monoxide, carbon dioxide, unknown hydrocarbons.
HAZARDOUS POLYMERIZATION..... Will not occur



9. SPILL AND LEAK PROCEDURES

SPILL OR LEAK PROCEDURES: Allow to cool and solidify. Scraper up and collect in suitable containers for disposal. Waste disposal should be in accordance with disposal regulations of state and local environmental regulations.

10. HANDLING AND STORAGE PRECAUTIONS

STORAGE TEMPERATURE: Room temp.
HANDLING/STORAGE: Store in a cool, dry area. Precaution: This product should only be heated to recommended temperature. Pyrolysis products emitted and may be hazardous to health.

11. SHIPPING INFORMATION

DOT SHIPPING NAME: ADHESIVE M.O.F.
DOT HAZARD CLASS: NON-HAZARDOUS
DOT REPORTABLE QUANTITY: N/A

12. OTHER REGULATORY

TSCA: All components are on the TSCA inventory. This product contains no substances at Section 313. Based on data available.

13. REGULATORY CONTACT

MSDS DATE: 02/01/94
FOR REGULATORY INFORMATION, CONTACT:
Phillip A. Young
Assistant Regulatory Coordinator
Administrative Division
National Starch & Chemical Company
P.O. Box 6500
Bridgewater, NJ 08807
508-685-5379

ADDITIONAL INFORMATION-

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND NOT COMBINED WITH OTHER PRODUCTS. OUR DATA ARE BASED ON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES. AND ARE NOT TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

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