



MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

PRODUCT NAME: SPRAY ADHESIVE
PART #: N4820

(NFPA RATINGS)

HEALTH: 2

FIRE: 3

REACTIVITY: 0

HMIS PROTECTIVE EQUIPMENT: X See your supervisor

PRODUCT INFORMATION (800) 262-0012	MEDICAL EMERGENCY (856) 455-4555
TRANSPORTATION EMERGENCY CHEMTREC (800) 424-9300	DISTRIBUTOR / MANUFACTURER NATIONAL REFRIGERANTS, INC. 661 KENYON AVE. ROSENHAYN, NJ

HAZARDOUS INGREDIENTS

OSHA Hazardous Components (29 CFR 1910.1200)

EXPOSURE LIMITS: 8 HR. TWA

OSHA PEL ACGIH TLV

Hexane (110-54-3)

800

800

Acetone (67-64-1)

50

50

Propane (74-98-6)

1000

1000

HAZARDS IDENTIFICATIONS

EMERGENCY OVERVIEW:

DANGER! Flammable. Harmful or fatal if swallowed. Vapor harmful. Aerosol, contents under pressure. Irritating to eyes, skin, mucous membranes, and respiratory tract.

POTENTIAL HEALTH EFFECTS:

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

EYE CONTACT: Irritation.

SKIN CONTACT: Irritation due to defatting of skin.

INGESTION: Possible chemical pneumonitis if aspirated into lungs.

CHRONIC Effects: (Effects due to excessive exposure to the raw materials of this mixture) Excessive inhalation of hexane may cause nerve damage.

CARCINOGENICITY: LISTED IN NTP? No

IARC? No

OSHA Regulated? No

FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, apply artificial respiration and administer oxygen. Keep victim warm. Seek medical advice.

EYE CONTACT: Flush with large amounts of running water for 15 minutes occasionally lifting lower and upper eyelids. Seek medical advice.

SKIN CONTACT: Wash exposed area with soap and water. Remove contaminated clothing. Seek medical advice if symptoms develop.

INGESTION: Give water. Do NOT induce vomiting. Aspiration into lungs may cause chemical pneumonia. Seek immediate medical attention. Do not give anything by mouth to an unconscious person. If spontaneous vomiting occurs, keep head below hips.



MATERIAL SAFETY DATA SHEET

FIRE FIGHTING MEASURES

FLASHPOINT (TEST METHOD): < 113 Degrees F

FLAMMABLE LIMITS: LOWER: N/E

UPPER: N/E

AUTOIGNITION TEMPERATURE (non-aerosol i.e. base stock): N/E.

GENERAL HAZARD: WARNING! Product under pressure, may explode from excessive heat. Water may be ineffective to fight fire. Toxic gases may be produced in fire.

FIRE FIGHTING INSTRUCTIONS: Do not enter without full bunker of equipment including self contained breathing apparatus. Stay upwind, keep all personnel away. Cool fire exposed containers with water.

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical or foam.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

ACCIDENTAL RELEASE MEASURES

Ventilate and isolate hazard area. Remove all sources of ignition. Keep unnecessary and unprotected personnel away. Clean up spills and leaks immediately to prevent soil and water contamination.

LAND SPILL: Absorb spill with inert, non-combustible material, then place in a chemical waste container.

WATER SPILL: Do not flush to sewer. Collect and store in a chemical waste container.

HANDLING AND STORAGE

HANDLING: Use with adequate ventilation. Avoid skin/eye contact and breathing vapors. Do not smoke while spraying. DO NOT CUT, WELD, BRAZE, SOLDER, DRILL, OR EXPOSE TO HEAT, FLAME, SPARKS AND/OR STATIC ELECTRICITY. Intentional misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

STORAGE: Store in a cool, dry place away from heat (< 120°F.), ignition sources, oxidizers, and strong acids and bases.

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Adequate ventilation to control vapor accumulation.

PERSONAL PROTECTION: If TLV exceeded, NIOSH approved respirator. Wear safety glasses or chemical goggles or full face shield and chemical impervious apron to protect from splashing. Wear chemical impervious gloves. Wash clothing before reuse.

PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: psig @ 70°F (aerosols): 32-42

SPECIFIC GRAVITY: 0.863

SOLUBILITY IN WATER: Partial

FREEZING POINT: Not Applicable

APPEARANCE & ODOR: Straw colored with ketone solvent odor.

VAPOR DENSITY (Air=1) : N/E

EVAPORATION RATE (ETHER=1): N/E

pH: NA

BOILING POINT: Not Applicable

AEROSOL - % VOC (W/W): 95

STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Avoid excessive heat, ignition sources, and flames. Isolate from oxidizers and strong acids and bases.

MATERIALS TO AVOID: None known. Test on surface before using.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.



MATERIAL SAFETY DATA SHEET

TOXICOLOGICAL INFORMATION

Isobutane	LC50: 57 pph/15M LCLo: 1041 g/m ³ /2H	(inh - rat) (inh - mouse)	
Acetone	LDLo: 8 g/kg TCLo: 12,000 ppm/4h TCLo: 500 ppm LD50: 5800 mg/kg LC50: 50,100 mg/m ³ /8H	(oral - dog) (inh - human) (inh - human) (oral - rat) (inh - rat)	CNS, GIT EYE
Hexane	LD50: 28,710 mg/kg TCLo: 190 ppm / 8W	(oral - rat) (inh - human)	PNS

ECOLOGICAL INFORMATION

No data available.

DISPOSAL CONSIDERATIONS

Classification of waste required before disposal. Do not puncture or incinerate. Follow all local, state and federal regulations. Aerosol cans when vented to atmosphere pressure through normal use pose no disposal hazard. Full or partially filled containers are considered hazardous waste.

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Consumer commodity, ORM-D
HAZARD CLASS: Not applicable
IDENTIFICATION NUMBER: Not applicable
DOT Emergency Guide #: 126
Reportable Quantity (RQ): Not Applicable
International: Aerosols, flammable, (each not exceeding 1 L capacity), 2.1, UN 1950, LTD QTY

REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.
CERCLA (Comprehensive Environmental Response, Compensation and Liability Act): NAP
SARA TITLE III (Superfund Amendments and Reauthorization Act): NAP
CALIFORNIA PROPOSITION 65: Not listed

National Refrigerants, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other methods of use of the product and of the information referred to herein are beyond the control of National Refrigerants. National Refrigerants expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

DATE OF LATEST REVISION/REVIEW: 10/09
PERSON RESPONSIBLE FOR MSDS: Ray Madariaga