

# Material Safety Data Sheet

## 444 Adhesive Spray



Data Prepared: October 15<sup>th</sup>, 2014

### SECTION I: IDENTIFICATION OF THE SUBSTANCE & COMPANY

Product Name: **444 Adhesive Spray**  
Product Code: **444**

Manufactured for: **CLEARCO PRODUCTS CO. INC.,**  
15 York Road  
Willow Grove, PA 19090 U.S.A.

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**+01-813-248-0585 (INTERNATIONAL)**

**COMMON NAME (used on label) (Trade Name & Synonyms):** 444  
**CAS. NUMBER:** See Section 2  
**CHEMICAL NAME:** Thermoplastic Rubber in Solution with Heptane and Acetone  
**CHEMICAL FAMILY:** N/A  
**FORMULA:** N/A

### SECTION II: HAZARDOUS INGREDIENTS

#### Principal Hazardous Component(s)

CHEMICAL AND COMMON NAME(S)	OSHA CAS #	ACGIH PEL	ACGIH TLV	VAPOR PRESS @ 25 DEG. C	LEL	UEL	FLASH POINT DEG. F	Wt %
Acetone	67-64-1	750ppm	750ppm	185 mmHg	2.6	12.8	-4(TCC)	15 - 25
Heptane	142-82-5	400ppm	400ppm	45 mmHg	1.2	6.7	<20(TCC)	20 - 30
Liquefied Petroleum Gas	68476-85-7	1000ppm	1000ppm	3691 mmHg	2.0	10.0	-156 Est.	23 - 33

N/A is not available or not applicable

### SECTION III: PHYSICAL & CHEMICAL CHARACTERISTICS

#### Fire & Explosion Data

BOILING POINT (°F): Concentrate Range: 132 - 159  
Propellant: -21.6

SPECIFIC GRAVITY (Water = 1): 0.68

VAPOR PRESSURE (mmHg): See Section 2

PERCENT VOLATILE BY WEIGHT (%): ≤ 55

VAPOR DENSITY (Air = 1): >1

EVAPORATION RATE (BA = 1): >1

SOLUBILITY IN WATER: Slight

REACTIVITY IN WATER: None

APPEARANCE AND ODOR: CONCENTRATE: Amber liquid with characteristic odor; PROPELLANT: Clear, odorless gas;

FINISHED PACKAGE: Pressurized containers.

FLASH POINT: See Section 2

FLAMMABLE LIMITS IN AIR - % BY VOLUME: See Section 2

EXTINGUISHER MEDIA: Carbon dioxide, foam, dry chemical

AUTO-IGNITION TEMPERATURE: Unknown

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure build-up and possible bursting when exposed to high temperatures. Firemen should wear self-contained respiratory protection.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Extremely flammable. Contents under pressure. Do not store or use near heat or ignition sources. Containers may burst at temperatures above 130 deg. F.

#### SECTION IV: PHYSICAL HAZARDS

STABILITY: Stable

CONDITIONS TO AVOID: Avoid any ignition sources. Avoid excessive heat.

INCOMPATIBILITY (Materials to Avoid): Nitric plus Acetic Acids, Nitric plus Sulfuric Acid, Amines, Strong Oxidizing Agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Not Applicable.

#### SECTION V: HEALTH HAZARDS

THRESHOLD LIMIT VALUE: See Section 2

SIGNS AND SYMPTOMS OF EXPOSURE:

EYE CONTACT: May cause moderate eye irritation and moderate corneal injury. Vapors may irritate eyes; SKIN CONTACT: Prolonged contact may cause irritation, defatting of skin;

INHALATION: May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage; INGESTION: If aspirated (liquid enters the lungs), it may be rapidly absorbed through the lungs and result in injury to other body systems. Gastro-intestinal distress.

***IMPORTANT NOTICE: REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS MAY LEAD TO PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. EYE WATERING, HEADACHES, NAUSEA, DIZZINESS AND LOSS OF COORDINATION ARE SIGNS THAT SOLVENT LEVELS ARE TOO HIGH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.***

***CHRONIC EFFECTS: THIS PRODUCT CONTAINS N-HEXANE. OVEREXPOSURE TO N-HEXANE MAY CAUSE PROGRESSIVE AND POTENTIALLY IRREVERSIBLE DAMAGE TO THE PERIPHERAL NERVOUS SYSTEM, PARTICULARLY IN THE ARMS AND LEGS.***

***SIMULTANEOUS EXPOSURE TO THE VAPORS OF N-HEXANE AND METHYL ETHYL KETONE (MEK) OR TO N-HEXANE AND METHYL ISOBUTYL KETONE (MIBK) ABOVE THE RECOMMENDED WORKPLACE LIMITS INCREASES THE RISK OF ADVERSE EFFECTS FROM N-HEXANE. EVIDENCE IN LABORATORY ANIMALS AND HUMANS INDICATES THAT IN THE PRESENCE OF MEK OR MIBK, THE NEUROPATHY ASSOCIATED WITH N-HEXANE IS PRODUCED IN A SHORTER PERIOD OF TIME OR AT LOWER EXPOSURE CONCENTRATIONS. THERE IS NO REPORTED HUMAN EVIDENCE THAT THESE NEUROTOXIC EFFECTS OCCUR WHEN EXPOSURE TO THESE CHEMICALS IS MAINTAINED BELOW ESTABLISHED OSHA AND ACGIH LIMITS.***

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM:	No
I.A.R.C. MONOGRAPHS:	No
OSHA:	No
OSHA PERMISSIBLE EXPOSURE LIMIT:	See Section 2
ACGIH THRESHOLD LIMIT VALUE:	See Section 2
OTHER EXPOSURE LIMIT USED:	None

#### EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.  
EYES: Flush with flowing water immediately and continuously for 15 minutes. Consult medical personnel.  
SKIN: Wash off in flowing water or shower. Remove contaminated clothing and wash before reuse.  
INGESTION: Do not induce vomiting. Call a physician immediately.

#### SECTION VI: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH or Bureau of Mines approved organic vapor-type respirator is required in absence of proper environmental control.

VENTILATION:

LOCAL EXHAUST: To keep below TLV  
MECHANICAL (General): To keep below TLV  
SPECIAL: None  
OTHER: None

PROTECTIVE GLOVES: Solvent resistant gloves - impervious gloves

EYE PROTECTION: Safety glasses or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None reasonably foreseeable.

**SECTION VII: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not store above 120 deg. F. Avoid breathing vapors. Avoid prolonged or repeated contact with skin.

OTHER PRECAUTIONS: EXTREMELY FLAMMABLE. Do not use or store near open flames, heat, or any sources of ignition. Contents under pressure. Do not puncture or incinerate. Vapors are heavier than air and will collect in low areas.

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

SMALL SPILLS: Remove ignition sources. Mop up, wipe up, or soak up immediately. Use proper protective equipment.

LARGE SPILLS: Evacuate area. Remove ignition sources. Contain liquid; transfer to closed containers; keep out of water supplies.

WASTE DISPOSAL METHODS: Dispose in accordance with Federal, State, and Local regulations. Do not incinerate closed or empty containers.

**SECTION VIII: NFPA HAZARD RATINGS**

Health = 2      Flammability = 4      Reactivity = 0

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