

MATERIAL SAFETY DATA SHEET

Quick Identifier (In Plant Common Name): WORKABLE FIXATIVE

MANUFACTURER INFORMATION

MANUFACTURER'S NAME: Union Rubber Corporation

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EMERGENCY TELEPHONE NUMBER: 609-396-9328

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SECTION 1 - IDENTITY

COMMON NAME (used on label) (Trade Name & Synonyms): Workable Fixative #611

CAS. NUMBER; See Section 2

CHEMICAL NAME: Aerosol Coating

CHEMICAL FAMILY: Organic Coating

FORMULA: URIM-5697

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s)

| CHEMICAL AND COMMON NAME(S) | CAS # | OSHA PEL | ACGIH TLV | VAPOR PRESS @ 25° C | LEL | UEL | FLASH POINT DEG. F | Wt % |
|---------------------------------------|------------|----------|-----------|---------------------|-----|------|--------------------|-------|
| Acetone | 67-64-1 | 750 ppm | 750 ppm | 185 mmHg | 2.6 | 12.8 | -4 (TCC) | 60-70 |
| Propylene Glycol Methyl Ether Acetate | 108-65-6 | N/A | N/A | 4 mmHg | 1.1 | 11.2 | N/A | 5-10 |
| Liquefied Petroleum Gas (Propellant) | 68476-85-7 | 1000 ppm | 1000 ppm | 3691 mmHg | 2.0 | 10.0 | -156 Est. | 20-30 |

**NOTE: This product does not contain any ingredients subject to Section 313 of SARA Title III.

N/A is not available or not applicable

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

(Fire & Explosion Data)

BOILING POINT (Deg. F): Concentrate Range: 132-300 Propellant: -16.0

SPECIFIC GRAVITY (Water = 1) Concentrate: 0.87 Propellant: 0.54

VAPOR PRESSURE (mmHg): See Section 2

PERCENT VOLATILE BY WEIGHT (%): 90% - 100%

VAPOR DENSITY (Air = 1): >1

EVAPORATION RATE (BA = 1): >1

SOLUBILITY IN WATER: Slight

REACTIVITY IN WATER : None

APPEARANCE AND ODOR: *CONCENTRATE*: Liquid with characteristic odor; *PROPELLANT*: Colorless, 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 equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. Contents under pressure. Do no use or store near

heat or ignition sources. Containers may burst at temperatures above 130° F.

SECTION 4 - 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 5 - 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 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. Gastrointestinal distress.

IMPORTANT NOTE: *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.*

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. If irritation persists, call a physician. INGESTION: Do not induce vomiting. Call a physician immediately.

SECTION 6 - 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 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store above 120° 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.

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SECTION 8 - NFPA HAZARD RATINGS

Health = 2 Flammability = 4 Reactivity = 0

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