



MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

PART I *What is the material and what do I need to know in an emergency?*

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SECTION 1. -----CHEMICAL IDENTIFICATION-----

NAME: **VINYL ACETYLENE**

SECTION 2. -----COMPOSITION/INFORMATION ON INGREDIENTS-----

CAS#: 689-97-4

SYNONYMS

1-BUTEN-3-YNE (50% XYLENE MIX)

SECTION 3. -----HAZARDS IDENTIFICATION-----

LABEL PRECAUTIONARY STATEMENTS

DANGER: EXTREMELY FLAMMABLE LIQUID AND GAS.

MAY FORM EXPLOSIVE MIXTURES WITH AIR.

VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

PEROXIDES MAY FORM FROM LONG EXPOSURES TO AIR AND MAY INITIATE POLYMERIZATION.

SECTION 4. -----HEALTH HAZARDS IDENTIFICATION-----

ACUTE EFFECTS

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.

PART II *What should I do if a hazardous situation occurs?*

SECTION 5. -----FIRST-AID MEASURES-----

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF INGESTED, WASH OUT MOUTH WITH WATER. CALL A PHYSICIAN. REMOVE CONTAMINATED CLOTHING PROMPTLY, AND WASH THOROUGHLY BEFORE REUSE. CALL A PHYSICIAN.

SECTION 6. -----FIRE AND EXPLOSION MEASURES-----

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM. WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT BE EFFECT EXTINGUISHMENT.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. STOP THE FLOW OF LIQUID OR GAS (IF IT CAN BE ACCOMPLISHED SAFELY). USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

UNUSUAL FIRE AND EXPLOSION HAZARDS
EXTREMELY FLAMMABLE-CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS.

PART III *How can I prevent hazardous situations from occurring?*

SECTION 7. -----STABILITY AND REACTIVITY-----

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS.
STRONG BASES.
ACIDS.
STRONG REDUCING AGENTS.
STORE IN COOL PLACE, AWAY FROM HEAT AND DIRECT SUNLIGHT.
MAY UNDERGO AUTOPOLYMERIZATION.

SECTION 8. -----ACCIDENTAL RELEASE MEASURES-----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
COVER WITH DRY LIME, SAND, OR SODA ASH. PLACE IN COVERED CONTAINERS USING NON-SPARKING TOOLS AND TRANSPORT OUTDOORS. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 9. -----DISPOSAL CONSIDERATIONS-----

WASTE DISPOSAL METHOD
BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTER-BURNER AND SCRUBBER BUT EXPERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

SECTION 10. -----HANDLING AND STORAGE-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.
MECHANICAL EXHAUST REQUIRED. SAFETY SHOWER AND EYE BATH. KEEP AWAY FROM IGNITION SOURCES. WEAR APPROPRIATE OSHA/MSHA APPROVED RESPIRATOR, CHEMICAL RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING. KEEP CONTAINERS TIGHTLY CLOSED. DO NOT BREATHE VAPOR. USE ONLY IN A CHEMICAL FUME HOOD. HANDLE AND STORE UNDER ARGON. REFRIGERATE. USE NON-SPARKING TOOLS. EXTREMELY FLAMMABLE !

PART IV *Is there any other useful information about this material?*

SECTION 11. -----PHYSICAL AND CHEMICAL PROPERTIES-----

BOILING POINT: 5 C
FLASH POINT: -50 F
SPECIFIC GRAVITY: 0.7080
THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE.