

CHEMETRICS, INC.
ROUTE 28
CALVERTON, VA 22016
(800) 356-3072
FAX (703) 788-4856
TELEX 292-861 CHEM UR

MATERIAL SAFETY DATA SHEET

TRADE NAMES: CHEMETS AND VACUETTES
CATALOG NOS: R-2505, R-2505A, R-2505B, R-2505C, R-2505D, R-2505V
DESCRIPTION: REAGENT AMPOULES FOR THE DETERMINATION OF CHLORINE IN
WATER. EACH AMPOULE CONTAINS APPROXIMATELY
0.50 ML OF LIQUID REAGENT SEALED UNDER VACUUM.

INGREDIENTS	%	CAS NUMBER
POTASSIUM PHOSPHATE MONOBASIC	2.0	7778-77-0
DISODIUM ETHYLENEDIAMINE TETRAACETATE	0.2	139-33-3
N,N, DIETHYL-P-PHENYLENEDIAMINE OXALATE	<0.1	62637-92-7
SULFURIC ACID	<0.1	7664-93-9
*ACETONE	1.0	67-64-1
*METHANOL	2.5	67-56-1
FORMALDEHYDE	<0.1	50-00-1
DEMINEALIZED WATER	94.0	1732-18-5

ATTENTION USER: IF THIS PRODUCT IS USED AS DIRECTED, THE USER WILL NOT COME
IN CONTACT WITH OR BE EXPOSED TO ANY OF ITS CHEMICAL
COMPONENTS.

* MATERIAL SAFETY DATA SHEET INCLUDED.

DATE OF PREPARATION: 04/09/87
(1095-3)

ACETONE

SYNONYMS: DIMETHYLKETONE
2-PROPANONE
CAS NUMBER: 67-64-1
RTECS NUMBER: AL3150000

PHYSICAL DATA:

MOLECULAR WEIGHT:	58.08
PHYSICAL STATE:	LIQUID
APPEARANCE:	COLORLESS
ODOR:	FRAGRANT, MINT-LIKE
SOLUBILITY IN WATER:	MISCIBLE IN ALL PROPORTIONS IN WATER.
BOILING POINT:	56.5'C(133.7'F)
MELTING POINT:	-95'C(-139'F)
SPECIFIC GRAVITY:	.8

VAPOR PRESSURE: 400 MM HG AT 39.5'C(103'F)

PHYSICAL HAZARD DATA:

FLASH POINT: -18'C(0'F) CLOSED CUP UPPER EXPLOSION LIMIT: 12.8%
LOWER EXPLOSION LIMIT: 2.6%
AUTO IGNITION TEMPERATURE: 465'C(869'F)
EXTINGUISHING MEDIA: WATER, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.
HAZARDOUS DECOMPOSITION
PRODUCTS: CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM
WHEN HEATED TO DECOMPOSITION.
INCOMPATIBILITY: STABLE UNDER ORDINARY CONDITIONS OF USE AND
STORAGE. POLYMERIZATION WILL NOT OCCUR.

HEALTH HAZARD DATA:

OSHA PERMISSIBLE EXPOSURE
LIMIT: 1000 PPM
ACGIH THRESHOLD LIMIT VALUE: 750 PPM
CARCINOGEN STATUS: NONE
ROUTE OF ENTRY: SKIN AND EYE IRRITANT

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

INHALATION: MAY CAUSE IRRITATION TO NOSE, THROAT, AND
MUCOUS MEMBRANES.
SKIN CONTACT: MAY CAUSE REDNESS, PAIN, DRYING AND CRACKING
OF THE SKIN.
EYE CONTACT: MAY CAUSE REDNESS, AND PAIN.
INGESTION: MAY CAUSE DIZZINESS, DULLNESS, AND HEADACHE.

FIRST AID:

INHALATION: REMOVE INDIVIDUAL TO FRESH AIR. IF NOT
BREATHING, GIVE ARTIFICIAL RESPIRATION. IF
BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK
PROMPT MEDICAL ATTENTION.
SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP OR MILD
DETERGENT AND LARGE AMOUNTS OF WATER.
EYE CONTACT: FLUSH CONTINUOUSLY WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES. FORCIBLY
HOLD EYELIDS APART TO INSURE IRRIGATION OF
ALL EYE AND LID TISSUE. SEEK PROMPT MEDICAL
ATTENTION.
INGESTION: IF VICTIM IS CONSCIOUS AND NOT CONVULSIVE,
IMMEDIATELY GIVE LARGE QUANTITIES OF WATER
AND ATTEMPT TO INDUCE VOMITING BY TOUCHING
FINGER TO BACK OF THROAT. SEEK PROMPT
MEDICAL ATTENTION.

PRECAUTIONS FOR SAFE HANDLING AND USE

EYE PROTECTION: SAFETY GOGGLES.
SKIN PROTECTION: PROTECTIVE GLOVES; IMPERVIOUS CLOTHING.
VENTILATION RECOMMENDED: LOCAL EXHAUST.

ENVIRONMENTAL PROTECTION PROCEDURE:

SHUT OFF IGNITION SOURCES. DO NOT TOUCH SPILLED MATERIAL. TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO SMALL CONTAINERS FOR DISPOSAL. DISPOSE OF BY MEANS AS TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS OR CONTACT AN APPROVED AND LICENSED DISPOSAL AGENCY.

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.

HENRY B. CASTANEDA
TECHNICAL SUPERINTENDENT

DATE OF PREPARATION: 05/19/86
(1126-1)

METHANOL

SYNONYMS: METHYL ALCOHOL
WOOD ALCOHOL
CAS NUMBER: 67-56-1
RTECS NUMBER: PC1400000

PHYSICAL DATA:

MOLECULAR WEIGHT: 32.04
PHYSICAL STATE: LIQUID
APPEARANCE: COLORLESS
ODOR: CHARACTERISTIC ALCOHOL ODOR
SOLUBILITY IN WATER: SOLUBLE
BOILING POINT: 147°F (64°C)
MELTING POINT: -144°F (-98°C)
VAPOR PRESSURE: 97 MM HG AT 20°C
SPECIFIC GRAVITY: 0.8

PHYSICAL HAZARD DATA:

FLASH POINT: 52°F (11°C) CLOSED CUP
UPPER EXPLOSION LIMIT: 36.5%
LOWER EXPLOSION LIMIT: 6.0%
AUTO IGNITION TEMPERATURE: 725°F (385°C)
EXTINGUISHING MEDIA: DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY, OR FOAM.
HAZARDOUS DECOMPOSITION PRODUCTS: COMBUSTION PRODUCTS INCLUDE TOXIC, HAZARDOUS GASES OF FORMALDEHYDE, CARBON MONOXIDE, AND CARBON DIOXIDE.
REACTIVITY: STABLE AT ORDINARY PRESSURES UP TO THE BOILING POINT. POLYMERIZATION WILL NOT OCCUR.

HEALTH HAZARD DATA:

OSHA & ACGIH THRESHOLD
LIMIT VALUE: 200 PPM
CARCINOGEN STATUS: NONE
ROUTE OF ENTRY: EYE, SKIN, AND MUCOUS MEMBRANE IRRITANT:
CENTRAL NERVOUS SYSTEM DEPRESSANT.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

INHALATION: MAY CAUSE BLURRED VISION, CONTRACTION OF VISUAL
FIELDS AND SOMETIMES, COMPLETE BLINDNESS.
SKIN CONTACT: MAY CAUSE ECZEMA, REDNESS AND SCALING.
EYE CONTACT: MAY CAUSE CONJUNCTIVITIS.
INGESTION: MAY CAUSE DELAYED SYMPTOMS OF HEADACHE, ANOREXIA,
WEAKNESS, FATIGUE, AND VERTIGO, FOLLOWED BY
NAUSEA.

FIRST AID:

INHALATION: REMOVE INDIVIDUALLY TO FRESH AIR IMMEDIATELY.
IF BREATHING HAS STOPPED, GIVE ARTIFICIAL
RESPIRATION. SEEK PROMPT MEDICAL ATTENTION.
SKIN CONTACT: WASH AFFECTED AREAS WITH SOAP OR MILD DETERGENT
AND LARGE AMOUNTS OF WATER.
EYE CONTACT: FLUSH CONTINUOUSLY WITH COPIOUS AMOUNTS OF WATER
FOR AT LEAST 15 MINUTES. FORCIBLY HOLD EYELIDS
APART TO INSURE IRRIGATION OF ALL EYE AND LID
TISSUE. SEEK PROMPT MEDICAL ATTENTION.
INGESTION: SEEK PROMPT MEDICAL ATTENTION. IF MEDICAL
ATTENTION IS NOT IMMEDIATELY AVAILABLE, AND
VICTIM IS CONSCIOUS, ATTEMPT TO INDUCE VOMITING BY
TOUCHING FINGER TO BACK OF THROAT. ALSO GIVE
SODIUM BICARBONATE (BAKING SODA), 2 TEASPOONS IN
WATER.

PRECAUTIONS FOR SAFE HANDLING AND USE:

EYE PROTECTION: SPLASH-PROOF SAFETY GOGGLES.
SKIN PROTECTION: PROTECTIVE GLOVES IMPERVIOUS CLOTHING.
VENTILATION RECOMMENDED: LOCAL EXHAUST OR GENERAL DILUTION VENTILATION

ENVIRONMENTAL PROTECTION PROCEDURES:

SHUT OFF IGNITION SOURCES. PROVIDE VENTILATION. DO NOT TOUCH SPILLED MATERIAL
TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL AND PLACE INTO SMALL CONTAINERS
FOR DISPOSAL. CLOSE TIGHTLY AND LABEL "FLAMMABLE". DISPOSE OF BY MEANS AS
TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS OR CONTACT AN
APPROVED AND LICENSED DISPOSAL AGENCY.

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