

Pharm Solutions Inc.

MATERIAL SAFETY DATA SHEET

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

PRODUCT NAME: Weed Pharm
SYNONYMS: None
CHEMICAL NAME: VINEGAR
CAS NUMBER: 8028-52-2

COMPANY IDENTIFICATION

PHARM SOLUTIONS INC.
2023 E. SIMMS WAY SUITE #358
PORT TOWNSEND, WA 98368

(805) 927-7400

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DATE MADE: MAY 4, 2005

II. COMPOSITION INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>AMOUNT</u>	<u>CAS NUMBER</u>
ACETIC ACID	>10.0 – 30.0 %	64-19-7

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

(SEE SECTION 15 FOR REGULATORY INFORMATION)

HAZARDS DISCLOSURE

THIS PRODUCT CONTAINS HAZARDOUS MATERIALS AS
DEFINED BY THE OSHA HAZARD COMMUNICATION
STANDARD 29 CFR 1910.1200

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

VAPORS IRRITATING TO THE EYES AND RESPIRATORY
TRACT. AVOID INHALATION. LIQUID MAY CAUSE EYE
BURNS AND PERMANENT DAMAGE TO CORNEA, POSSIBLY
LEADING TO BLINDNESS. CAUSES SKIN IRRITATION.

POTENTIAL HEALTH EFFECTS

EYE:

EXTREMELY IRRITATING TO THE EYES. IF NOT REMOVED PROMPTLY, WILL INJURE EYE TISSUE, WHICH MAY RESULT IN PERMANENT DAMAGE, INCLUDING BLINDNESS

SKIN: CONTACT CAUSES SKIN IRRITATION AND POSSIBLE BURNS

INHALATION:

IRRITATING TO THE NOSE, THROAT AND RESPIRATORY TRACT. AVOID BREATHING OF VAPORS OR MISTS

INGESTION:

CAN IRRITATE OR BURN MOUTH, THROAT AND STOMACH IF SWALLOWED

CARCINOGENICITY INFORMATION:

NO KNOWN CANCER HAZARDS

REPRODUCTIVE HAZARDS:

NOT A REPRODUCTIVE HAZARD

IV. FIRST AID MEASURES

EYE CONTACT FIRST AID:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER

SKIN CONTACT FIRST AID:

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING BEFORE REUSE

INHALATION FIRST AID:

IF EXPOSED TO EXCESSIVE LEVELS OF FUMES, REMOVE TO FRESH AIR

INGESTION FIRST AID:

IF SWALLOWED, WATER SHOULD BE CONSUMED TO DILUTE. DO NOT INDUCE VOMITING. DO NOT GIVE EMETICS OR BAKING SODA. CONTACT A PHYSICIAN.

V. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

COC FLASH POINT: NOT APPLICABLE – NO FLASH WHEN SAMPLE OF 300-GRAIN WHITE DISTILLED VINEGAR TESTED IN CLEVELAND OPEN CUP, TAG OPEN CUP, OR TAG CLOSED CUP TESTER

FLAMMABLE LIMITS IN AIR:
LEL: NOT APPLICABLE
UEL: NOT APPLICABLE

EXTINGUISHING MEDIA:
WILL NOT BURN

FIRE & EXPLOSION HAZARDS:
MATERIAL WILL NOT BURN

VI. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):
PROTECT SKIN AND EYES FROM EXPOSURE. AVOID BREATHING VAPOR.

INITIAL CONTAINMENT:
CONTAIN SPILLED MATERIAL. WATER MAY BE USED TO DILUTE. TREAT OR DISPOSE OF WASTE MATERIAL AS A WEAK ACID IN ACCORDANCE WITH ALL LOCAL STATE/PROVINCIAL AND NATIONAL REQUIREMENTS.

LARGE SPILLS PROCEDURE:
CONTAIN SPILLED MATERIAL. SPILLS MAY BE NEUTRALIZED WITH DILUTE ALKALINE SOLUTIONS OF SODA ASH OR LIME. AVOID RUNOFF INTO STORM SEWERS AND DITCHES THAT LEAD TO WATERWAYS. TREAT OR DISPOSE OF WASTE MATERIAL IN ACCORDANCE WITH ALL LOCAL, STATE/PROVINCIAL AND NATIONAL REQUIREMENTS.

SMALL SPILLS PROCEDURE:
TREAT OR DISPOSE OF WASTE MATERIAL AS A WEAK ACID IN ACCORDANCE WITH ALL LOCAL, STATE/PROVINCIAL AND NATIONAL REQUIREMENTS. WATER MAY BE USED TO DILUTE.

VII. HANDLING AND STORAGE

HANDLING (PERSONNEL):
AVOID BREATHING VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSE.

STORAGE PRECAUTIONS:
STORE IN A WELL VENTILATED PLACE.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER. LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THE TLV'S DURING THE USE OF THIS PRODUCT.

EYE / FACE PROTECTION REQUIREMENTS:
WEAR SAFETY GLASSES.

SKIN PROTECTION REQUIREMENTS:
WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. WEAR PROTECTIVE GLOVES TO MINIMIZE SKIN CONTAMINATION.

RESPIRATORY PROTECTION REQUIREMENTS:
WHEN THERE IS A POTENTIAL FOR AIRBORNE EXPOSURES IN EXCESS OF APPLICABLE LIMITS, WEAR NIOSH/MSHA APPROVED RESPIRATORY PROTECTION. UNDER NORMAL USE CONDITIONS, WITH ADEQUATE VENTILATION, NO SPECIAL HANDLING EQUIPMENT IS REQUIRED.

EXPOSURE GUIDELINES:

NOTE, THESE VALUES REFER TO THE ACETIC ACID CONTENT

RECOMMENDED EXPOSURE LIMIT: 10PPM ACETIC ACID
ODOR THRESHOLD: 0.037-0.15PPM ACETIC ACID
IMMEDIATE DANGEROUS TO LIFE OR HEALTH (IDLH) LEVEL:
1000 PPM ACETIC ACID
(THE IDLH IS THE MAXIMUM CONCENTRATION IN AIR FROM WHICH ONE COULD ESCAPE WITHIN 30 MINUTES WITHOUT ESCAPE-IMPAIRING SYMPTOMS OR IRREVERSIBLE HEALTH EFFECTS)

OSHA TWA: 10 PPM ACETIC ACID

ACGIH TWA: 10 PPM ACETIC ACID
OSHA STEL: 15 PPM
SJKIN DESIGNATION: YES

IX. PHYSICAL AND CHEMICAL PROPERTIES

FORM LIQUID

COLOR APPROPRIATE COLOR FOR TYPE OF VINEGAR

ODOR APPROPRIATE ODOR FOR TYPE OF
VINEGAR

BOILING POINT 217 DEGREES F @ 760MM HG AT 30% ACETIC
ACID (CALCULATED)

VAPOR PRESSURE 15.6MM HG @ 68 DEGREES F AT 30% ACETIC ACID (CALCULATED)

SOLUBILITY IN WATER COMPLETE

SPECIFIC GRAVITY 1.03 – 1.04 AT 30% ACETIC ACID, (WATER=1)

MELTING/FREEZING POINT ~15 DEGREES AT 30% ACETIC ACID (CALCULATED)

PH 2.0 AT 30% ACETIC ACID (CALCULATED)

% VOLATILES 100%

X. STABILITY AND REACTIVITY

STABILITY: STABLE

POLYMERIZATION: PRODUCT WILL NOT UNDERGO POLYMERIZATION

INCOMPATIBILITY: AVOID CONTACT WITH STRONG OXIDIZING AGENTS. AVOID
CONTACT WITH STRONG BASES

DECOMPOSITION: DECOMPOSITION WILL NOT OCCUR IF STORED AND HANDLED
PROPERLY. IN CASE OF A FIRE, OXIDES OF CARBON, FUMES AND
SMOKE MAY BE PRODUCED.

XI. TOXICOLOGICAL INFORMATION

MISCELLANEOUS: NO TOXIC EFFECTS ARE LIKELY

(OTHER THAN CONTACT-SITE IRRITATION/DAMAGE)

XII. ECOLOGICAL INFORMATION

BIODEGRADES READILY UNDER AEROBIC AND ANAEROBIC CONDITIONS. NO TENDENCY TO BIOACCUMULATE.

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
TREAT OR DISPOSE OF WASTE MATERIAL AS A WEAK ACID IN ACCORDANCE WITH ALL LOCAL, STATE/PROVINCIAL AND NATIONAL REQUIREMENTS.

XIV. TRANSPORTATION INFORMATION

PRODUCT LABEL:	VINEGAR, CONCENTRATED
DOT SHIPPING NAME:	NOT APPLICABLE
TECHNICAL SHIPPING NAME:	NOT APPLICABLE
DOT HAZARD CLASS:	NOT APPLICABLE
UN NUMBER:	NOT APPLICABLE FOR VINEGAR CONTAINING LESS THAN 25% ACETIC ACID, PROVIDED PACKAGING COMPLIES WITH ADR SPECIAL PROVISION 647; UN 2790 FOR VINEGAR CONTAINING MORE THAN 25% ACETIC ACID.

PRODUCT RQ (LBS):	QUANTITY CONTAINING THE EQUIVALENT OF 5,000 LB OF 100 % ACETIC ACID (E.G., 16,667 LBS OF VINEGAR CONTAINING 30% ACETIC ACID)
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DOT LABEL:	NOT APPLICABLE
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XV. REGULATORY INFORMATION

CANADIAN DISCLOSURE LIST
ACETIC ACID (64-19-7)

CERCLA HAZARDOUS SUBSTANCES
ACETIC ACID (64-19-7) – RQ = QUANTITY CONTAINING 5000 LB OF 100% ACETIC ACID; (E.G., 16,667 LB OF 30% ACETIC ACID)

FDA (FOOD AND DRUG ADMINISTRATION):
MATERIAL IS A GRAS (GENERALLY RECOGNIZED AS SAFE)
FOOD INGREDIENT

XVI. OTHER INFORMATION

THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT IS THE USER'S RESPONSIBILITY TO EVALUATE THE APPLICABILITY OF THIS INFORMATION FOR THEIR PARTICULAR CONDITIONS OF STORAGE, HANDLING AND USE.