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MSDS

Common Name: HORTICULTURAL VINEGAR, CONCENTRATED**Manufacturer:** OSM**MSDS Revision Date:** 5/1/2012**MSDS Format:** No Format Specified**Grainger Item Number(s):** 38N634, 38N635**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

DATE CREATED: MAY 2012

TRADE NAME: OSM HORTICULTURAL VINEGAR

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT IDENTIFICATION:

PRODUCT NAME: OSM HORTICULTURAL VINEGAR, CONCENTRATED

SYNONYMS: 200 GRAIN VINEGAR

CHEMICAL NAME: VINEGAR

CHEMICAL FAMILY: CARBOXYLIC ACID

CAS NUMBER: 8028-52-2

COMPANY IDENTIFICATION:

OSM INC

114 BROADWAY

RAYNHAM, MA 02767

888-473-6489

2. COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL NAME	AMOUNT	CAS NUMBER
ACETIC ACID	20%	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.

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:****CAUTION:**

VAPORS IRRITATING TO 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. HIGHER LIKELIHOOD IN 30% PRODUCTS

SKIN: CONTACT CAUSES SKIN IRRITATION AND POSSIBLE BURNS.

INHALATION:

IRRITATING TO THE NOSE, THROAT, AND RESPIRATORY TRACT. AVOID BREATHING 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.

4. 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.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:**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.

6. 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. LARGE 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 AS A WEAK ACID 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.

7. 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.

8. 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 THEIR TLVS 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 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

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): 10 PPM ACETIC ACID (25 MG/M3)

(THE PEL IS THE OFFICIAL OSHA OCCUPATIONAL EXPOSURE STANDARD, AND IS AN 8-HOUR TIME WEIGHTED AVERAGE (TWA))

ACGIH THRESHOLD LIMIT VALUE (TLV): 10 PPM ACETIC ACID (25 MG/M3)

(THE TLV IS THE 8-HOUR TWA OCCUPATIONAL EXPOSURE GUIDANCE LEVEL RECOMMENDED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS)

ACGIH SHORT-TERM EXPOSURE LIMIT (STEL): 15 PPM ACETIC ACID (37 MG/M3)

(THE STEL IS A LEVEL THAT CAN BE PERMITTED FOR UP TO 15 MINUTES, UP TO 4-TIMES PER DAY, PROVIDED THE OVERALL WORKSHIFT AVERAGE DOES NOT EXCEED THE TLV-TWA)

RECOMMENDED EXPOSURE LIMIT (REL): 10 PPM ACETIC ACID (25 MG/M3)

(THE REL IS THE MAXIMUM EXPOSURE LEVEL RECOMMENDED BY THE NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH)

IMMEDIATELY DANGEROUS TO LIFE OR HEALTH (IDLH) LEVEL:
50 PPM ACETIC ACID (125 MG/M3)

(THE IDLH IS THE MAXIMUM CONCENTRATION IN AIR FROM WHICH ONE COULD ESCAPE WITHIN 30 MINUTES WITHOUT ESCAPE-IMPAIRING SYMPTOMS OR IRREVERSIBLE HEALTH EFFECTS)

SKIN DESIGNATION: NO

ODOR THRESHOLD: 0.037-0.15 PPM ACETIC ACID

9. PHYSICAL AND CHEMICAL PROPERTIES



FORM: LIQUID

COLOR: APPROPRIATE COLOR FOR TYPE OF VINEGAR

ODOR: APPROPRIATE ODOR FOR TYPE OF VINEGAR

BOILING POINT: 217 DEG. F @ 760 MM Hg AT 30% ACETIC ACID (CALCULATED)

VAPOR PRESSURE: 15.6 MM Hg @ 68 DEG. 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: APPROX. 15 DEG. F AT 30% ACETIC ACID (CALCULATED)

PH: 2.0 AT 30% ACETIC ACID (CALCULATED)

% VOLATILES: 100 %

10. STABILITY AND REACTIVITY



STABILITY: STABLE.

POLYMERIZATION: PRODUCT WILL NOT UNDERGO POLYMERIZATION.

INCOMPATIBILITY WITH OTHER MATERIALS:

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

DECOMPOSITION:

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

11. TOXICOLOGICAL INFORMATION



MISCELLANEOUS:

NO TOXIC EFFECTS ARE LIKELY (OTHER THAN CONTACT-SITE IRRITATION/DAMAGE).

12. ECOLOGICAL INFORMATION



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

13. DISPOSAL CONSIDERATIONS



WASTE DISPOSAL:

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

14. TRANSPORTATION INFORMATION



PRODUCT LABEL:

DOT SHIPPING NAME: CANADIAN DISCLOSURE LIST ACETIC ACID

TECHNICAL SHIPPING NAME: (64-19-7)

DOT HAZARD CLASS: VINEGAR. CONCENTRATED

UNNUMBER:

NOT APPLICABLE

NOT APPLICABLE

NOT APPLICABLE

PRODUCT RQ (LBS):

NOT APPLICABLE FOR VINEGAR CONTAINING LESS THAN 25% ACETIC ACID, PROVIDED PACKAGING COMPLIES WITH ADR SPECIAL PROVISION 647

DOT LABEL:

UN2790 FOR VINEGAR CONTAINING MORE THAN 25% ACETIC ACID QUANTITY CONTAINING THE EQUIVALENT OF 5000 LB OF 100% ACETIC ACID, (E.G., 16,667LB OF VINEGAR CONTAINING 30% ACETIC ACID)

15. REGULATORY INFORMATION



NOT APPLICABLE

CERCLA HAZARDOUS SUBSTANCES:

ACETIC ACID (64-19-7) - RQ = QUANTITY CONTAINING 5,000 LB OF 100% ACETIC ACID; (E.G., 16,667LB OF 30% ACETIC ACID)

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

16. OTHER INFORMATION

THE INFORMATION IN THE MSDS RELATED 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.