

Safety Data Sheet

MULTIPHASE DEODORANT

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Isopropanol	1-5	144-62-7	205-634-3	Acute Toxicity Oral & Dermal Category 4
Alcohol Ethoxylate	1-5	68439-46-3	Not Established	Skin Irr. Cat. 2, Eye Dam. Cat 2B
Citric acid	< 1	77-92-9	201-069-1	Skin Corrosion Category 1C

Dam. = Damage, Irr. = Irritation, Cat. = Category

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Get immediate medical attention. Do not apply neutralizing agents.

SKIN CONTACT:..... Remove contaminated clothing and shoes immediately. Wash affected skin area with soap and water. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention.

SWALLOWING (INGESTION):..... If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Immediately call Poison Control Center. Take container or container label to the doctor or hospital. Never give anything by mouth to an unconscious person.

INHALATION:..... Remove to fresh air.

OTHER INSTRUCTIONS:..... Use personal protective equipment. Avoid contact with skin, eyes and clothing.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media for surrounding fires. All extinguishing media is allowed.

SPECIAL PROTECTIVE EQUIPMENT

AND PRECAUTIONS FOR FIRE FIGHTERS: In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area. Cool tanks/drums with water spray. Dilute toxic gasses with water spray.

UNUSUAL FIRE AND

EXPLOSION HAZARDS: May react with strong oxidizers and strong reducers. Reacts with chlorine compounds to product toxic gas.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT

AND EMERGENCY PROCEDURES:.... Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PRECAUTIONS: . Keep spilled material away from sewage/drainage systems and waterways.

METHODS AND MATERIALS FOR

CONTAINMENT AND CLEAN UP:.... All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

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PRECAUTIONS FOR SAFE HANDLING: Use with adequate ventilation. Wear proper protective equipment. Do not mix with other compounds to prevent a potentially violent reaction.

CONDITIONS FOR SAFE STORAGE: Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE):....The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	USA OSHA PEL – TWA	USA ACGIH TWA	USA ACGIH – STEL
Oxalic acid	1 mg/m ³	1mg/m ³	3mg/m ³
Citric acid	Not Established	Not Established	Not Established

EYE PROTECTION:Wear chemical splash goggles or safety glasses.

SKIN PROTECTION:Minimize contact with product. Wear suitable long-sleeved clothing.

RESPIRATORY PROTECTION:In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

VENTILATION:.....Ensure adequate ventilation.

ADDITIONAL MEASURES:Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE:Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:.....Clear colorless liquid with mild odor.

ODOR:Mild odor.

ODOR THRESHOLD:.....Not Available

pH:< 2.0 as is

MELTING POINT/FREEZING POINT:Not available

BOILING POINT:.....Not available

FLASHPOINT:Not applicable

EVAPORATION RATE:.....Not Available

FLAMMABILITY:.....Non flammable, non combustible

LOWER FLAMMABILITY LIMIT:Not applicable

UPPER FLAMMABILITY LIMIT:Not applicable

VAPOR PRESSURE:.....Not Available

VAPOR DENSITY (AIR=1):Not determined

RELATIVE DENSITY:1.05

SOLUBILITY IN WATER:Soluble in water

PARTITION COEFFICIENT n-OCTANOL/WATER: Not Available

AUTOIGNITION TEMPERATURE:....Not Available

DECOMPOSITION TEMPERATURE:..Not Available

SECTION 10 – STABILITY AND REACTIVITY

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STABILITY: Stable under recommended storage conditions.

HAZARDOUS CONDITIONS TO AVOID: Avoid direct sunlight, extremely high or low temperatures.

INCOMPATIBLE MATERIALS: Chlorinated products such as bleach, alkaline materials, metals, metal powder, carbides, chlorates, fumigates, nitrates, picrates, strong oxidizers, reducing or combustible organic material. Hazardous gases are evolved on contact with chemicals such as chlorine bleach, cyanides, sulfides and carbides.

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphorous oxides. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapors.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Oxalic Acid

Acute Oral Toxicity: LD50 (rat) is 375 mg/kg; not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425).

ACUTE DERMAL TOXICITY: Mild skin irritation

ACUTE INHALATION TOXICITY:..... Not established

CARCINOGENICITY: No data available, IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACUTE FISH TOXICITY: Not Established.

TOXICOLOGICAL INFORMATION:... Alcohol Ethoxylate

ACUTE TOXICITY: Oral LD50 (*Rat*) 1,378 mg/kg, Dermal LD50 (*Rat*) >5,000 mg/kg, Inhalation LC50 No data
Primary skin irritation (*Rabbit*: Moderately to severely irritating, Primary eye irritation
(*Rabbit*: Severely irritating).

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

AQUATIC TOXICITY: Mild water pollutant (surface water). May cause eutrophication. Toxic to plankton. Slightly harmful to bacteria. Slightly harmful to aquatic organisms. pH shift. Insufficient data available on eco-toxicity. LC50/96hour:138mg/L (*Gambusia Afinis*).

PERSISTENCE AND DEGRADABILITY: No relevant information available.

BIOACCUMULATIVE POTENTIAL: ... No relevant information available.

NOTES: Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized. Rinsing larger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms.

ECOLOGICAL INFORMATION: Alcohol Ethoxylate

AQUATIC TOXICITY: LC50 (Fish toxicity, *Rainbow trout*) 1-10 mg/l, 96hr. Value estimated from tests on similar products. LC50 (Fish toxicity, *Fathead minnow*) 6 mg/l, 96hr. Value estimated from tests on similar products.

EC50 (Aquatic invertebrate toxicity, *Daphnia* 1-10 mg/l, 48hr. Value estimated from tests on similar products.

EC50 (Algae toxicity, *Skeletonema costatum*) 1-10 mg/l, 72hr. Value estimated from tests on similar products.

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EC50 (Bacterium toxicity, *Nitrifying bacteria*) 410 mg/l, 4hr. Value estimated from tests on similar products.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME: N/A
HAZARD CLASS AND LABEL: N/A
UN NUMBER:..... N/A
PACKAGING GROUP:..... N/A
EPA REPORTABLE QUANTITY (RQ): N/A
MARINE POLLUTANT: Not listed.
EMERGENCY RESPONSE GUIDE: N/A

SECTION 15 – REGULATORY INFORMATION

U.N. GHS CLASSIFICATION & LABELING INFORMATION:

CLASSIFICATION: Irritant
SIGNAL WORD: Warning
H STATEMENTS:..... H315: Causes skin irritation and eye damage.
H302: Harmful if swallowed.
P STATEMENTS: P260: Do not breathe mist, vapors, spray
P264: Wash exposed skin thoroughly after handling.
P280: Wear protective gloves, protective clothing, eye protection, face protection.
P301+P330+P331: IF SWALLOWED: Rinse mouth, Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P363: Wash contaminated clothing before reuse.
P405: Store locked up.
P501: Dispose of contents/container to comply with local, state and federal regulations.

HAZARD PICTOGRAMS:.....



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U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN:..... Not listed.
TSCA STATUS: The ingredients of this product are listed on TSCA inventory (40CFR 710.)
SARA SECTION 302: None
SARA SECTION 312: Acute health hazard.
SARA SECTION 313: Not listed
NFPA HEALTH: 2
NFPA FLAMMABILITY:..... 0
NFPA REACTIVITY: 0

EUROPEAN UNION REGULATORY INFORMATION:

DSD/DPD RISK (R) PHRASES: R36/38: Irritating to eyes and skin. R25: Toxic if swallowed.
DSD/DPD SAFETY (S) PHRASES: S18: Handle and open containers with care.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39: Wear suitable gloves and eye/face protection.
S61: Avoid release to the environment.
S64: If swallowed, rinse mouth with water if victim is conscious.

DSD/DPD HAZARD SYMBOL: N/A

CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY: Class D Division 2 Subdivision B-Toxic Material: D-2B.
DOMESTIC SUBSTANCES LIST (DSL): Listed
INGREDIENT DISCLOSURE LIST: Listed



SECTION 16 – OTHER INFORMATION

REFERENCES: The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. HydraMaster Corp. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

FOOT NOTES:

IMDG:..... International Maritime Code for Dangerous Goods
DOT:..... US Department of Transportation
IATA: International Air Transportation Association
ACGIH:..... American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50:..... Lethal dose, 50 percent
TOST:..... Target Organ Systemic Toxicity
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