CHEMICAL NAME: Methacrylate Monomer
PRODUCT NAME: ASP Line Eliminator
PRODUCT USE: Organic Process Chemical
MANUFACTURER: All Season Professional
ADDRESS: 29120 Avenue Paine Valencia, Ca. 91355
24 HR. EMERGENCY TELEPHONE: CHEMTEL: 1-800-255-3924
PREPARATION/UPDATE DATE: 04/02/2015
PRINT DATE: 4/3/15
MSDS ID: M27-00

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<th>ITEM</th>
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<th>CAS NUMBER:</th>
<th>WT/WT %</th>
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<td>Ethyl Methacrylate Monomer</td>
<td>97-63-2</td>
<td>60.0-100.0</td>
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<td>02</td>
<td>Trade Secret</td>
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ACGIH
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<th>TLV-TWA</th>
<th>TLV-STEEL</th>
<th>PEL TWA</th>
<th>PEL CEILING</th>
<th>Recommendation</th>
<th>SKIN</th>
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<tbody>
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<td>01</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>100 ppm</td>
<td>NE</td>
</tr>
<tr>
<td>02</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>100 ppm</td>
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</tr>
</tbody>
</table>

Note this material contains an inhibitor (HQ, MEHQ, etc) at <1%. The type and amount meet product specifications. Contact manufacturer for exact concentration and details on inhibitor level maintenance.

See Section 16 for Abbreviations.
SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
WARNING:
For Monomer:
  Physical Hazards: Unstable/Reactive upon depletion of inhibitor. **Check inhibitor levels periodically.**
  Acute Hazards: Ingestion: Causes irritation, a burning sensation of the mouth, throat and respiratory tract and abdominal pain.
  Eyes: Eye contact may cause irritation with discomfort, tearing, or blurring of vision.
  Inhalation: High concentrations irritant to the respiratory tract and may cause dizziness, headache and anesthetic effects.
  Skin: May cause skin irritation and can cause skin sensitization.
  Chronic Hazards: None Listed.

CARCINOGENICITY:
None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY:
Inhalation, Skin or Eyes.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:
  EYES: If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.
  INGESTION: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.
  INHALATION: Remove to fresh air. Seek immediate medical attention.
  SKIN: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.
  CLOTHING: Remove contaminated clothing and wash thoroughly before reuse.
  TREATMENT: Treat symptoms conventionally, after thorough decontamination.
SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT:  19 ° C, 67° F
FLAMMABLE LIMIT, AIR VOL% LOWER: 1.8
UPPER: Saturation concentration.
AUTOIGNITION TEMPERATURE: 411 ° C, 771 ° F
EXTINGUISHER METHOD: Chemical foam, carbon dioxide, dry chemical, water spray.
FIRE AND EXPLOSION HAZARDS:
High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

SPECIAL FIRE FIGHTING PROCEDURES:
This product is a flammable liquid. When involved in a fire, this product may ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment.

SENSITIVE TO MECHANICAL IMPACT: No.
SENSITIVE TO STATIC DISCHARGE: Yes.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE:
Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g. sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.
SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Use local explosion-proof ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of material release. Refer to Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Hygienist. Observe precautions found on label.

PRECAUTIONS FOR STORAGE: Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Keep container closed after each use. Ground and bond all containers when transferring. Check inhibitor levels periodically, add to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container. Do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective.

INDUSTRIAL HYGIENE PRACTICES: Avoid contact with skin, eyes, clothing, and prolonged contact with the product. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: Refer to Section 7 regarding the ventilation requirements for working with this product. Use explosion-proof local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well ventilated.

RESPIRATORY PROTECTION: A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed in Section 2. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

EYE PROTECTION: Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

PROTECTIVE GLOVES: If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards.

OTHER PROTECTIVE EQUIPMENT: No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

For Ethyl Methacrylate:

APPEARANCE: Clear, colorless liquid.

ODOR: Acrid, ester-like.

pH: ND

ODOR THRESHOLD: ND

BOILING POINT: 118 °C, 246 °F

FREEZING POINT: < -50 °C

VISCOSITY: NE

SPECIFIC GRAVITY (H₂O=1): NE

VAPOR PRESSURE: 20 mm/Hg @ 20 °C, 68 °F

PERCENT VOLATILE W/W%: NE

VAPOR DENSITY (AIR=1): 3.94

EVAPORATION RATE (BuAc =1): NE

SOLUBILITY IN WATER: 0.5% @ 20 °C, 68 °F

COEFFICIENT OF WATER/OIL DISTRIBUTION: NE

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures above 21° C, 70° F, localized heat sources (example drum or band heaters) oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon when burned.

HAZARDOUS POLYMERIZATION: MAY OCCUR: X WILL NOT OCCUR:

STABILITY: Unstable/Reactive upon depletion of inhibitor.

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:
For Ethyl Methacrylate Monomer: None Listed.

REPRODUCTIVE:
For Ethyl Methacrylate Monomer: No information available.

TOXICITY DATA:
This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. Some of this data is presented below.

For Ethyl Methacrylate Monomer:

Dermal Rabbit LD₅₀: >10,000 mg/kg.
Inhalation Rat LC₅₀: 8300 ppm/4H.
Intraperitoneal Mouse LD₅₀: 1369 mg/kg.
Intraperitoneal Rat LD₅₀: 1223 mg/kg.
Oral Rat LD₅₀: 13468 mg/kg.
SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY:
For Monomer: There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. There is ecological data for the components of the product, which is found in scientific literature. Some of this data is presented below.

For Ethyl Methacrylate Monomer:
- **Daphnia Magna**: EC\(_{50}\): > 66 mg/L/48H.
- **Rainbow Trout**: LC\(_{50}\): 100 mg/L/96H.
- **Algae**: EC\(_{50}\): > 0.70 mg/L/72H.

ENVIRONMENTAL FATE:
For Ethyl Methacrylate Monomer:
- Biodegradation: Inherently biodegradable 79% in 28 days.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
When discarded it is a characteristic hazardous waste by the EPA under RCRA with the reportable quantity (RQ) of 1000 pounds (40 CFR Part 302) for the ethyl methacrylate monomer. After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations.

DISPOSAL OF EMPTY CONTAINERS:
Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

SECTION 14 - TRANSPORTATION

DOT/UN SHIPPING NAME: ETHYL METHACRYLATE, STABILIZED, SOLUTION
DOT/UN CLASS: 3
NA/UN NUMBER: UN 2277
PACKING GROUP: II
LABEL: Flammable Liquid
IMDG CLASS: 3
EmS: 3-07
CERCLA RQ: For Ethyl Methacrylate Monomer: 1000 lb.
SECTION 15 - REGULATORY INFORMATION

SARA Reporting Requirements: Yes
SARA Threshold Planning Quantity: There are specific Threshold Planning Quantities for the components of this product.
TSCA Inventory Status: Yes
TSCA Threshold Planning Quantity: The components of this product are listed on the TSCA Inventory.
CERCLA Reportable Quantity (RQ): Yes
Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR.
Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.
State Regulatory Information: This product may contain components that are covered under specific state criteria.

RISK STATEMENTS:
R11 – Highly Flammable
R36/37/38 – Irritating to eyes, respiratory system and skin.
R43 – May cause sensitization by skin contact

SAFETY STATEMENTS:
S3 – Keep in a cool place.
S7 – Keep container tightly closed.
S9 – Keep container in a well ventilated place.
S16 – Keep away from sources of ignition – No Smoking.
S20 – When using do not eat or drink.
S29 – Do not empty into drains.
S33 – Take precautionary measures against static discharges.
S37/39 – Wear suitable gloves and eye/face protection.

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:
- HEALTH: 2
- FLAMMABILITY: 3
- REACTIVITY: 2
- PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Splash Goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:
- HEALTH: 2
- FLAMMABILITY: 3
- REACTIVITY: 2
SECTION 16 - OTHER INFORMATION

ABBREVIATIONS:

NA  Not Applicable
NE  Not Established
ND  Not Determined

ppm  parts per million
mg  Milligram
gm  Gram
kg  Kilogram
mm  Millimeter
Pa  Pascals

G  Gallon
L  Liter
mol  Mole
µ  Micro
p  Pico

LC  Lethal Concentration
TC  Toxic Concentration
BOD  Biological Oxygen Demand
Lo  Lowest
Tlm  Threshold Limit
DOC  Dissolved Organic Carbon

LD  Lethal Dose
TD  Toxic Dose
COD  Chemical Oxygen Demand
ThOD  Theoretical Oxygen Demand
IC  Inhibitory Concentration

H  Hours
D  Days
W  Weeks
Y  Years
M  Months

ACGIH  American Conference of Governmental Industrial Hygienist
CPR  Controlled Product's Regulation
DSL  Canadian Domestic Substances List
NDSL  Canadian Non-domestic Substance List
IARC  International Agency for Research for Cancer
NOEL  No Observed Effect Level
NOAEL  No Observed Adverse Effect Level
OSHA  Occupational Safety and Health Administration
PEL  Permissible Exposure Limit
TLV  Threshold Limit Value

THIS SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.

Preparation Date of SDS: April 02, 2015

END OF SDS