

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Pivot 10
PRODUCT DESCRIPTION: Emulsifiable insecticide concentrate containing insect growth regulator.
CHEMICAL NAME: Mixture
MANUFACTURER: Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507
TELEPHONE: (281) 892-2500
24 HOUR EMERGENCY PHONE (CHEMTREC): (800)-424-9300
(ALL OTHER AREAS): (703) 527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT(s) | CAS # | EINECS | EXPOSURE LIMITS | % BY WT. |
|--------------|-------------|--------|-----------------|----------|
| Pyriproxyfen | 095737-68-1 | none | Not established | 10.00 |

[2-{1 -Methyl-2-(4-phenoxyphenoxy)ethoxy} pyridine]
PEL = Permissible Exposure Limits. TWA = Time Weighted Average (8 hr).
TLV = Threshold Limit Value. STEL = Short Term Exposure Limit (15 min.).

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

WARNING OSHA COMBUSTIBLE Liquid. Avoid contact with eyes, skin and
EYES: Causes temporary irritation, tearing and blurred vision.
SKIN: May cause slight skin irritation.
INGESTION: Harmful if swallowed. Can cause stomach irritation, resulting in nausea, cramps and vomiting. Can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination.
INHALATION: Harmful if inhaled. Excessive inhalation can cause mild nasal and respiratory irritation, nausea and nervous disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.
CHRONIC EFFECTS: Not established
SAFETY: ALWAYS take prudent precautions to avoid contact with skin, eyes and clothing.
See TOXICOLOGICAL INFORMATION (section 11)

MATERIAL SAFETY DATA SHEET

4. FIRST-AID MEASURES

FIRST AID PROCEDURES:

- EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- INGESTION:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: This product may pose an aspiration pneumonia hazard.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: >90°C

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: not established.

UPPER FLAMMABLE LIMIT: not established.

AUTOIGNITION TEMPERATURE: not established.

HAZARDOUS COMBUSTION PRODUCTS: Thermal Decomposition will produce oxides of carbon

EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical.

FIRE FIGHTING INSTRUCTIONS: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water spray. Contain the run-off, if possible, for proper disposal.

6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

WASTE DISPOSAL METHOD: Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

MATERIAL SAFETY DATA SHEET

7. HANDLING AND STORAGE

HANDLING: Take prudent precautions to avoid contact with skin, eyes and clothing.

Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product. Do not contaminate water, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the label

STORAGE: Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA!

Wash Promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

RESPIRATORY PROTECTION: Wear a NIOSH approved organic vapor respirator in absence of proper mechanical ventilation.

SKIN PROTECTION: Take prudent precautions to avoid contact with skin and clothing.

EYE PROTECTION: Take prudent precautions to avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------|-----------------|
| COLOR: | Clear yellowish |
| ODOR: | Mild sweet odor |
| PHYSICAL STATE: | Liquid |
| VAPOR PRESSURE: | Not established |
| VAPOR DENSITY: | Not established |
| BOILING POINT: | Not established |
| MELTING POINT: | Not established |
| SOLUBILITY IN WATER: | Not established |
| SPECIFIC GRAVITY: | 0.91-0.95 g/ml |
| pH: | 5-7 |
| VISCOSITY: | 18 cps @ 21.5°C |

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

INCOMPATIBILITY: Strong acidic or alkaline materials. Compounds containing a methoxy group.

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.

HAZARDOUS POLYMERIZATION: Will not occur.

MATERIAL SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES:

INGESTION:

Acute Oral LD₅₀ (rat) = 5.04 g/kg

SKIN:

Acute Dermal LD50 (rabbit) >2.0 g/kg

Primary skin irritation (rabbit): Irritation index = 0.91

Dermal Sensitization (guinea pig): Not a sensitizer

INHALATION:

Acute Inhalation LC₅₀ (rat) (4 hours) > 11.07 mg/l

EYE:

Primary eye irritation (rabbit): Conjunctival irritation clearing in 7 days

SUBCHRONIC:

DERMAL IRRITATION: Not determined

ORAL TOXICITY STUDY: Not determined

CHRONIC:

CARCINOGENICITY: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

ONCOGENICITY: Not determined

REPRODUCTIVE: Not determined

TERATOGENICITY: Not determined

MUTAGENICITY: Not determined

12. ECOLOGICAL INFORMATION

PERSISTENCE IN THE ENVIRONMENT

BIODEGRADATION: Not available

CHEMICAL DEGRADATION: Not available

TOXIC EFFECTS ON ORGANISMS: Care should be taken to avoid contamination of the aquatic environment.

FISH: LC₅₀ Not available

BIRD: LC₅₀ Not available

TOXICITY TO USEFUL INSECTS: Not available

13. DISPOSAL CONSIDERATIONS

RCRA/CERCLA HAZARDOUS WASTE:

INGREDIENT RCRA ID#: CERCLA RQ-VALUE

NONE

DISPOSAL METHOD: This product should be disposed of according to local, state and federal regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains Do not mix with other waste materials.

MATERIAL SAFETY DATA SHEET

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

HAZARDOUS MATERIALS DESCRIPTION: Non-hazardous

HAZARD CLASS:

IDENTIFICATION NUMBER (UN or NA):

PACKING GROUP:

INTERNATIONAL TRANSPORTATION REGULATIONS:

ICAO / IATA DESCRIPTION: Not hazardous

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA TITLE III:

SECTION 302: Not listed

SECTION 313: This product contains the following toxic chemicals of the subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#: CHEMICAL NAME: De Minimis % BY WEIGHT:

None below reporting limits

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC): This product does not exceed 80% VOC's by weight.

16. OTHER INFORMATION

HMIS RATINGS:

We assign HMIS ratings to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in sections 7 and 8 of this MSDS.

| | |
|----------------------|---|
| HMIS RATINGS: Health | 2 |
| Flammability | 2 |
| Reactivity | 1 |

The data contained herein is based on information currently available and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Control Solutions, Inc. assumes legal responsibility.