

Material Safety Data Sheet

Effective Date: 02-JAN-2003
Product: HELENA LEGACY EC

I. IDENTIFICATION

Chemical Name: TRIFLURALIN
Chemical Family: DINITROANILINE
Formula: FORMULATED MIXTURE
Synonyms: NOT APPLICABLE
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.
EPA Number: 62719-241-5905

II. PHYSICAL DATA

Boiling Point: 280 DEGREES F.
Freezing Point: <41 DEGREES F.
Spec Gravity: 1.065 GMS/CC
Vapor Pressure: NOT AVAILABLE
Vapor Density: NOT AVAILABLE
Solubility: EMULSIFIES
Volatiles: NOT AVAILABLE
Evaporation: NOT AVAILABLE
Melting Point: NOT APPLICABLE
Appearance: CLEAR DEEP ORANGE LIQUID, AROMATIC ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
TRIFLURALIN (ALPHA, ALPHA, ALPHA-TRIFLUORO-2,6-DINITRO-N, N-DIPROPYL-P-TOLUIDINE)	01582-09-8	44.50	NOT	SKIN & EYE ESTABLI IRRITANT SHED
INERT INGREDIENTS, INCLUDING LIGHT AROMATIC SOLVENT (46- 50%)		55.50	TCLO 200 PPM	

IV. FIRE AND EXPLOSION HAZARD

Flash Point: 114 DEGREES F. (SCC)
Autoignition Temp: >800 DEGREES F.
Flammable Limit: NOT AVAILABLE
Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, WATER AND FOAM.
Special Fire Fight Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL FIRE FIGHTING PROTECTIVE EQUIPMENT.
Fire and Expl Hazard: CONTAINERS MAY RUPTURE VIOLENTLY WHEN OVER
HEATED. AFTER FIRE IS CONTROLLED, DO NOT
HANDLE CONTAINERS UNTIL THEY HAVE COOLED

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V. HEALTH HAZARD

Carcinogen Information: NONE CURRENTLY KNOWN

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: TRIFLURALIN IS CONSIDERED ONLY SLIGHTLY TOXIC; HOWEVER, THE SOLVENT MAY CAUSE POISONING IF INGESTED.

Skin Absorption: HARMFUL IF ABSORBED THROUGH SKIN. AVOID CONTACT WITH SKIN OR CLOTHING.

Inhalation: INHALATION MAY CAUSE IRRITATION OF NASAL PASSAGES.

Skin contact: AVOID CONTACT WITH SKIN. MAY CAUSE IRRITATION. REPEATED CONTACT MAY LEAD TO SKIN SENSITIZATION.

Eye Contact: CAN CAUSE EYE IRRITATION. AVOID CONTACT WITH EYES.

Chronic Effects: SKIN IRRITATION AND RASH; NAUSEA, VOMITING, CRAMPING, & DIARRHEA; EYE IRRITATION; DIZZINESS, HEADACHE, FEVER AND/OR CHILLS; AND MUSCLE ACHES OR WEAKNESS.

Other Hazard: INHALATION OF OVER 200 PPM CAN HAVE AN ANESTHIC EFFECT. HARMFUL IF INHALED. PRIMARY ROUTES OF ENTRY ARE INHALATION AND SKIN.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTER. IF AVAILABLE, ADMINISTER ACTIVATED CHARCOAL (6 TO 8 HEAPING TEASPOONSFUL) WITH A LARGE QUANTITY OF WATER.

Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPS. CONSULT A PHYSICIAN.

Inhalation: MOVE TO FRESH AIR IF IRRITATION IS NOTED. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. IF IRRITATION DEVELOPS, CONSULT A PHYSICIAN.

Notes to Physician: NO SPECIFIC ANTIDOTE, GIVE SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: AVOID EXCESSIVE HEAT AND SOURCES OF IGNITION.

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Polymerization: Will Not Occur
Conditions to Avoid: NONE CURRENTLY KNOWN.
Incompatibility material: AVOID CONTAMINATION WITH STRONG OXIDIZING AND
REDUCING AGENTS OR STRONG ALKALI.
Hazardous Combustion: FLUORINE COMPOUNDS. OXIDES OF NITROGEN.
INCOMPLETE COMBUSTION MAY LEAD TO CARBON
MONOXIDE.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: ROPE OFF CONTAMINATED AREA & CONTAIN THE SPILL.
ABSORB THE MATERIAL WITH CLAY OR SAWDUST AND
PUT INTO SUITABLE CONTAINERS FOR DISPOSAL. DO
NOT CONTAMINATE WATER WITH WASTE OR CLEANUP
MATERIAL. THIS MATERIAL IS TOXIC TO FISH.
Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO
FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE
RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: IF WORK AREA IS NOT WELL VENTILATED USE A NIOSH
RESPIRATOR APPROVED FOR ORGANIC SOLVENT VAPORS.
Ventilation: MAINTAIN ODOR FREE ATMOSPHERE. USE MECHANICAL
DEVICES IF VENTILATION IS NOT ADEQUATE.
Gloves: IMPERVIOUS GLOVES.
Eyes: CHEMICAL WORKERS GOGGLES.
Other: USE COVERALLS, IMPERVIOUS APRON AND FOOTWEAR. A
SAFETY SHOWER AND EYE WASH SHOULD BE PROVIDED
IN WORK AREA.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE
WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED
OR CONSUMED BY HUMANS OR ANIMALS. DO NOT
CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR
PONDS. DO NOT MIX WITH ANY MATERIAL NOT
MENTIONED ON THE PRODUCT LABEL.END-USE PRODUCT:
THIS PESTICIDE IS TOXIC TO FISH. DO NOT APPLY
TO WATER OR WETLANDS. DRIFT OR RUN-OFF FROM
TREATMENT AREAS MAY BE HAZARDOUS TO
AQUATICORGANISMS IN NEIGHBORING AQUATIC SITES.
DO NOT CONTAMINATED WATER WHEN DISPOSING OF
EQUIPMENT WASHWATER.

Other precaution: A) RCRA HAZARDOUS WASTE NUMBER:-----

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IGNITABILITY (DOO1) AS WASTE
B) SARA TITLE III, SECTION 313:-----
ETHYLBENZENE (2.0%) CAS #100-41-4,
TRIFLURALIN (44.5%) CAS #1582-09-8, MIXED
XYLENE (9.7%) CAS #1330-20-7.
C) SARA THRESHOLD PLANNING QUANTITY: 10,000
GAL.
D) (CAA) HAZARDOUS AIR POLLUTANTS:-- 1 LB.
(AIR) TRIFLURALIN
E) CERCLA REPORTABLE QUANTITY:----- NOT LISTED

X. SHIPPING INFORMATION

Shipping name: NOT APPLICABLE FOR CONTAINERS 118 GAL. IN SIZE
AND SMALLER.ABOVE 118 GAL. - COMPOUND, WEED
KILLING, LIQUID,
Hazard Class: COMBUSTIBLE LIQUID
Identification No: NA1993
Labels Required: NOT REQUIRED
Placarding: NOT REQUIRED
Freight Class: COMPOUND, WEED KILLING (HERBICIDES),
N.O.I.(NMFC ITEM 50320)

Chemical Name	Equivalent R.Q.
TRIFLURALIN (CLEAN AIR ACT)	1 LB./0.454 KG
MIXED XYLENE (DOT)	1000 LB/454 KG
ETHYLBENZENE (DOT)	1000 LB/454 KG

XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1 Fire: 2 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y Delayed (Chronic) Health: N
Sudden Release of pressure: N Fire: Y
Reactive: N

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