

Safety Data Sheet

DELAYED: Y
FIRE: N
REACTIVE: N
SUDDEN RELEASE OF PRESSURE: N
REPORTABLE QUANTITY (RQ) UNDER U.S. CERCLA: Methanol (CAS: 67-56-1) 5000 pounds.
SARA, TITLE III, SECTION 313: Methanol (CAS: 67-56-1) 1.1%
RCRA WASTE CODE: Not listed
CA PROPOSITION 65: Not listed.
CAUTION - This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

16. OTHER INFORMATION

MSDS STATUS: Section 15 revised
PREPARED BY: Registrations and Regulatory Affairs
REVIEWED BY:
Environmental Health and Safety
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Atrazine 4L

Helena

10/11/05

2225

HELENA CHEMICAL COMPANY
PH: 901-761-0050
CHEMTREC: 800-424-9300
11-OCT-2005
EFFECTIVE DATE: 11-OCT-2005
PRODUCT: ATRAZINE 4L

I. IDENTIFICATION

CHEMICAL NAME: Atrazine
CHEMICAL FAMILY: Triazine Herbicides
FORMULA: Not applicable, formulated mixture.
SYNONYMS: None
CAS NUMBER: 1912-24-9 (Atrazine Tech)
EPA NUMBER: 5905-470

II. PHYSICAL DATA

BOILING POINT: 100-106 Deg. C.
FREEZING POINT: Not determined
SPEC GRAVITY: 1.120 gms/cc
VAPOR PRESSURE: 1.5 mm/Hg @ 20 Deg. C.
VAPOR DENSITY: Not determined
SOLUBILITY: 33 ppm @ 20 Deg. C.

VOLATILES: Not determined
EVAPORATION: Not determined
MELTING POINT: 176 Deg. C. (tech)
APPEARANCE: White, odorless suspension.

III. INGREDIENTS

Atrazine (2-chloro-4-ethylamino)-6-(isopropylamino)-s-triazine and related compounds
CAS NUMBER: 1912-24-9
PERCENT: 42.00
TLV: 5 mg/kg
HAZARD: Moderately toxic and irritating to eyes and skin.
Inert ingredients
PERCENT: 58.00
TLV: N/E
HAZARD: Non-hazardous

IV. FIRE AND EXPLOSION HAZARD

FLASH POINT: Non-combustible
AUTOIGNITION TEMP: Not applicable
FLAMMABLE LIMIT: Not applicable
EXTINGUISHING MEDIA: Use dry chemical, foam or carbon dioxide extinguishing media.
SPECIAL FIRE FIGHT PROC: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent exposure.
FIRE AND EXPL HAZARD: Thermal decomposition products may include carbon monoxide, hydrogen cyanide and acetonitrile.

V. HEALTH HAZARD

CARCINOGEN INFORMATION: None currently known.
ACUTE EFFECTS OF OVER EXPOSURE
SWALLOWING: Slightly toxic by ingestion. Acute Oral LD50 (rat) = 1,075 mg/kg (females) and 1,886 mg/kg (males). Ingestion can result in nausea, vomiting or diarrhea.
SKIN ABSORPTION: Practically non-toxic dermally. Acute Dermal LD50 (rabbit) > 5,000 mg/kg. A skin sensitization (allergic) reaction can occur in some individuals.
INHALATION: Slightly toxic by inhalation. Acute Inhalation LC50 (rat) = 2.38 mg/L. Mildly irritating by inhalation.
SKIN CONTACT: Skin contact may cause mild irritation. A skin sensitization (allergic) reaction may occur in some individuals.
EYE CONTACT: Mildly irritating with eye contact.
CHRONIC EFFECTS: Cardiotoxicity has been observed in some long term studies with high doses (dogs). However, long-term exposure to low levels is not known to cause any ill effects in humans.
OTHER HAZARD: None currently known.
EMERGENCY AND FIRST AID PROCEDURES:
SWALLOWING: Call a poison control center or doctor immediately for treatment advice. Sip a glass of water, if conscious and able to swallow. Do not induce vomiting unless told to do so by a physician or poison control center.
SKIN: Remove contaminated clothing. Rinse affected area with plenty of water for at least 15 minutes. Call a poison control

center or doctor immediately for treatment advice.

INHALATION: Move to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

EYES: Hold eyelid open and rinse slowly and gently with water, continuing for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor immediately for treatment advice.

NOTES TO PHYSICIANS: If ingested, induce emesis or lavage stomach. Treat symptomatically.

VI. REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID: None currently known.
POLYMERIZATION: Will Not Occur
CONDITIONS TO AVOID: None currently known.
INCOMPATIBILITY MATERIAL: Avoid contact with strong acids and gases.
HAZARDOUS COMBUSTION: May produce carbon monoxide, hydrogen cyanide and acetonitrile under fire conditions.

VII. SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROC: For small spills, cover with an inert absorbent material, such as clay, sand or sawdust. Sweep up and place in an approved chemical waste container. Wash the spill area with water containing a strong detergent, absorb and place in container with collected product. Seal the container and send for proper disposal.
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: To avoid breathing mist or spray, wear a NIOSH-approved chemical cartridge pesticide respirator with dust/mist pre-filter or, use a supplied-air respirator.
VENTILATION: Local exhaust sufficient.
GLOVES: Chemical-resistant, such as PVC or polyethylene.
EYES: Chemical goggles, safety glasses w/side shields.
OTHER: Emergency shower, eyewash station, impervious apron and footwear.

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. Due to ground and surface water concerns, Atrazine 4L is a restricted use pesticide - for retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.
OTHER PRECAUTION: Do not reuse product containers. Dispose of product containers, waste containers and residues according to local, state and federal health

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AUTOIGNITION TEMP: Not applicable
FLAMMABLE LIMIT: Not applicable
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breathing apparatus. Evacuate
nonessential personnel from the area to
prevent exposure.
FIRE AND EXPL HAZARD: Thermal
decomposition products may include
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acetonitrile.

V. HEALTH HAZARD

CARCINOGEN INFORMATION: None
currently known.
ACUTE EFFECTS OF OVER EXPOSURE
SWALLOWING: Slightly toxic by ingestion.
Acute Oral LD50 (rat) = 1,075 mg/kg
(females) and 1,886 mg/kg (males).
Ingestion can result in nausea, vomiting or
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(allergic) reaction can occur in some
individuals.
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OTHER HAZARD: None currently known.
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PROCEDURES:
SWALLOWING: Call a poison control
center or doctor immediately for treatment
advice. Sip a glass of water, if conscious
and able to swallow. Do not induce vomiting
unless told to do so by a physician or
poison control center.
SKIN: Remove contaminated clothing.
Rinse affected area with plenty of water for
at least 15 minutes. Call a poison control

center or doctor immediately for treatment
advice.
INHALATION: Move to fresh air. If not
breathing, call 911 or an ambulance, then
give artificial respiration, preferably mouth-
to-mouth if possible.
EYES: Hold eyelid open and rinse slowly
and gently with water, continuing for 15-20
minutes. Remove contact lenses, if present,
after first 5 minutes, then continue rinsing.
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NOTES TO PHYSICIANS: If ingested,
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cyanide and acetonitrile under fire
conditions.

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SPILL OR LEAK PROC: For small spills,
cover with an inert absorbent material, such
as clay, sand or sawdust. Sweep up and
place in an approved chemical waste
container. Wash the spill area with water
containing a strong detergent, absorb and
place in container with collected product.
Seal the container and send for proper
disposal.
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: To avoid breathing mist or
spray, wear a NIOSH-approved chemical
cartridge pesticide respirator with dust/mist
pre-filter or, use a supplied-air respirator.
VENTILATION: Local exhaust sufficient.
GLOVES: Chemical-resistant, such as PVC
or polyethylene.
EYES: Chemical goggles, safety glasses
w/ side shields.
OTHER: Emergency shower, eyewash
station, impervious apron and footwear.

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. Due to ground and surface water
concerns, Atrazine 4L is a restricted use
pesticide - for retail sale to and use only by
certified applicators or persons under their
direct supervision, and only for those uses
covered by the certified applicator's
certification.
OTHER PRECAUTION: Do not reuse
product containers. Dispose of product
containers, waste containers and residues
according to local, state and federal health

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