

MATERIAL SAFETY DATA SHEET

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SECTION I – GENERAL INFORMATION

TRADE NAME	RAZENCANE 6.7E
CHEMICAL NAME	S-ethyl dipropylthiocarbamate
CHEMICAL FAMILY	Thiocarbamate (Herbicide)
EPA REG. NO.	19713-562
SIGNAL WORD	WARNING

SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
EPTC	759-94-4	82.6	N.K.	H
Inerts	N/A	17.4	N.K.	NH

SECTION III – PHYSICAL DATA

<u>Boiling Point</u>	127°C/20 mmHg	<u>Specific Gravity</u>	0.972
<u>Vapor Pressure</u>	10x10 ³ mPa	<u>% Volatiles</u>	Approx. 15%
<u>Vapor Density</u>	N.K.	<u>Solubility in Water</u>	Miscible.
<u>pH</u>	7.5-8.5	<u>Appearance/Odor</u>	Amber liquid, strong odor.

SECTION IV – FIRE & EXPLOSION DATA

Flash Point	186°F
Extinguishing Media	Dry chemical, foam or carbon dioxide.
Fire Fighting Procedures	Wear full protective clothing and self-contained breathing apparatus. If water is used to fight fire, dike and collect runoff.

SECTION V – REACTIVITY DATA

Stability	Stable under normal conditions.
Conditions to Avoid	Extreme temperatures and open flames.
Incompatibility	None Known.
Hazardous Decomposition Products	Toxic oxides of carbon, nitrogen and sulfur.
Hazardous Polymerization	Will not occur.

SECTION VI – HEALTH HAZARD DATA

Carcinogenicity	None Known.
Toxicity Data	Oral LD50(Rat) = 2000-2870 mg/kg Dermal LD50(Rabbit) = >4.0 g/kg Not Established.
TLV	Not Established.
N.F.P.A.	Health: 2; Fire: 2; Reactivity: 0 (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure	Causes eye, skin and respiratory passage irritation. May cause headaches, dizziness, nausea, cramps, diarrhea, salivation, tearing, sweating muscle twitching, tremors and incoordination.

The information presented herein for consideration, while not guaranteed, is true and accurate to the best of our knowledge. No warranty, or guaranty is expressed or implied regarding the accuracy or reliability of such information and we shall not be liable for any loss or consequential damages arising out of the use thereof.

Date Prepared: 11-02-04

SECTION VII – EMERGENCY PROCEDURES

If in 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.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: 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.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. This product contains EPTC, a thiocarbamate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine by injection is antidotal. Pralidoxime chloride (2-PAM) is NOT recommended as an antidote for this compound. Thiocarbamates have been shown in laboratory animals to cause a disulfiram (Antabuse®) – type reaction in combination with alcohol.

SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case of material leak or spill
Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately with absorbing material and place into compatible disposal container. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent and place into disposal container. Once all material is cleaned up and placed in a disposal container, seal container.

Waste Disposal Method
Dispose of in accordance with Local, State, and Federal Regulations.

SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH approved respirator
Ventilation	Local exhaust.
Protective Gloves	Chemical resistant gloves.
Eye Protection	Safety goggles.
Other	Wear suitable protective clothing, chemical resistant boots.

SECTION X – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storage
KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

Keep container tightly closed when not in use. Do not store near seed, fertilizer, or foodstuffs.

D.O.T. Description	Non-Regulated
Freight Description	Agricultural Herbicide, Liquid, N.O.S.
Reportable Quantity	N/A
ERG Guide	111