

1 - Product and Company Identification

Product name: Purton 9504
Product type/usage/industry: DEA Oleate
Manufacturer/Supplier Information: Zschimmer and Schwarz, Inc.
 70 GA Hwy. 22 W
 Milledgeville, GA 31061
 Phone: (478) 454-1942

Emergency contact: **Company:** (478) 454-1942
CHEMTREC (24HR): (800) 424-9300

2 – Hazards Identification

Classification of the substance or mixture: Classification of this substance/mixture is based on
29 CFR 1910.1200/HazCom 2012 (GHS-US)

Serious Eye Damage/Irritation	Category 2A	H319	Causes serious eye irritation
Skin Corrosion/Irritation	Category 2	H315	Causes skin irritation
Specific Target Organ Toxicity – Repeated Exposure (Ingestion)	Category 2	H373	May cause damage to kidneys, liver, and blood through prolonged or repeated exposure
Carcinogenicity	Category 2	H351	Suspected of causing cancer
Chronic Aquatic Toxicity	Category 2	H411	Toxic to aquatic life with long lasting effects

Labelling:

Signal Word:

WARNING!

Hazard Symbols:



Precautionary Statements:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe mist/vapors/spray.
- P264: Wash thoroughly after handling.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P308+311: IF exposed or concerned: Call a POISON CENTER/doctor.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P337+313: If eye irritation persists get medical advice/attention.
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- P332+313: If skin irritation occurs: Get medical advice/attention.
- P362+364: Take off contaminated clothing and wash it before reuse.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with local, state, and federal regulations.

Key to Hazard Categories:

1=Severe Hazard 2=Serious Hazard 3=Moderate Hazard 4=Slight Hazard 5=Minimal Hazard

3 – Composition/Information on Ingredients

<u>CAS Number</u>	<u>Material or component</u>	<u>Avg % weight</u>
93-83-4	Octadecenoic acid (Z)-, reaction products with diethanolamine	>95%
111-42-2	Diethanolamine	< 5%

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.

4 - First Aid Measures

Eyes:	Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
Skin:	Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminated clothing should be removed immediately and washed before reuse. Contaminated shoes should be discarded.
Inhalation:	Move the person to fresh air. If breathing becomes difficult, contact a physician.
Ingestion:	Do not induce vomiting. If large amounts were swallowed, give water to rinse mouth and get immediate medical attention.

5 - Firefighting Measures

Extinguishing Media:	Water spray, dry chemical, alcohol foam, or carbon dioxide.
Unsuitable Extinguishing Media:	None known.
Special Protective Equipment for Firefighters:	Self-contained breathing apparatus and protective clothing when fighting any chemical fire.
Unusual Fire & Explosion Hazards:	In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of NO _x and CO _x under fire conditions.

6 - Accidental Release Measures

Personal precautions:	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition. Wear protective gloves/protective clothing/eye protection/face protection
Environmental precautions:	P273: Avoid release to the environment Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater. Dispose of absorbed material in accordance with local, state and federal regulations.
Methods for Containment/Cleaning Up:	Take up with absorbent material (e.g. vermiculite, general purpose binder). Dispose of absorbed material in accordance with local, state, and federal regulations.

7 - Handling and Storage

Handling:	P261: Avoid breathing mists of product P262: Do not get in eyes, on skin, or on clothing P264: Wash thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection
Storage:	P402+404: Store in a dry place. Store in a closed container P403+233: Store in a well ventilated place. Keep container tightly closed Protect from moisture. Store in cool dry places between 32°F (0°C) and 95°F (35°C).
Special Packaging Requirements:	None known.
Incompatible Materials or Fire/Explosion Protection:	Strong oxidizers, strong acids, and strong bases at high temperatures.

8 - Exposure Controls/Personal Protection

Personal Protective Equipment (PPE):

Hand Protection: Use impervious gloves.
Eye Protection: Wear safety glasses with side shields or full face shield.
Skin Protection: Wear protective clothing.
Respiratory Protection: Recommended if ventilation is limited.

Engineering Measures/Controls:

Ventilation: Ensure adequate ventilation to maintain product at acceptable airborne levels.
Other measures: Eye-wash station.

Exposure Limits/Guidelines:

Material	CAS #	BASIS	TYPE	VALUE
Diethanolamine	111-42-2	ACGIH	TLV	3 ppm
		OSHA	TWA	3 ppm

9 - Physical and Chemical Properties

Form and Appearance:	Clear to hazy, yellow to amber liquid	Odor:	Characteristic
pH:	~ 9.0 @ 1%	Odor Threshold:	N/D
Boiling Point:	> 212°F (100°C)	Melting/Freezing point:	N/D
Vapor Pressure:	N/D	Vapor Density (Air=1):	N/A
Flash Point:	> 212°F (100°C) (COC)	Evaporation Rate:	N/D
UEL:	N/A	LEL:	N/A
Viscosity:	N/D	Solubility in Water:	Dispersible
Octanol/Water Partition Coefficient:	N/D	Specific Gravity/ Bulk Density:	~ 0.93 @ 25°C
Auto-ignition temperature:	N/D	Decomposition Temperature:	N/D
Volatile content:	< 1.0%	VOC Data:	N/D

10 - Stability and Reactivity

Chemical Stability: Product is stable under ordinary conditions of use and storage.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid exposure to extreme heat / ignition sources.

Incompatible Materials: To strong oxidizers, bases, strong acids; aluminum, copper, zinc, and galvanized containers.

Hazardous Decomposition Products: Extremely high temperatures and thermal decomposition may produce CO_x and NO_x.

11 - Toxicological Information

Acute Data:

Principle Routes of Exposure: Eye contact, skin contact, ingestion, inhalation (mist).

Acute Toxicity

Route of exposure:	Test type:	Species:	Results:	Comments:
Oral	LD50	Rat	>2000 mg/kg	H303: May be harmful if swallowed

Irritation and Corrosion

Target organ:	Species:	Results:	Comments:
Eyes	Rabbit	Serious irritation	-
Skin	-	Mild irritation possible	-

Sensitization

Target organ:	Species:	Results:	Comments:
Skin	Human	No effects known	-

Specific Target Organ Toxicity – Single Exposure

Target organ:	Species:	Results:	Comments:
NDA			-

Chronic Data:

Specific Target Organ Toxicity – Repeated Exposure

Target organ:	Species:	Results:	Comments:
Liver, kidney, blood	Human	Irreversible damage	Attributed to diethanolamine

Carcinogenicity

IARC	NTP	ACGIH	OSHA
Diethanolamine (111-42-2)- Group 2B – Possibly carcinogenic to humans	No	Diethanolamine (111-42-2)- Group A3 – Confirmed animal carcinogen with unknown relevance to humans	No

Mutagenicity: NDA

Reproductive Effects: NDA

Target Organ Effects: Repeated ingestion may cause kidney, blood and liver effects.

12 - Ecological Information

Acute Aquatic Toxicity

Species:	Test type:	Exposure time:	Results:	Comments:
Fish	LC50	96h	1 – 10 mg/l (ATE mix)	H401: Toxic to aquatic life
Daphnia magna	EC50	48h	1 – 10 mg/l (ATE mix)	H401: Toxic to aquatic life

Environmental Fate

Persistence/Degradability:	NDA
COD/BOD5:	NDA
Bioaccumulation Potential:	NDA
Mobility in Soil:	NDA
Other Adverse Effects:	Chronic Aquatic Toxicity – Category 2 H411: Toxic to aquatic life with long lasting effects

13 - Disposal Considerations

Product:	Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations.
Packaging:	NDA

14 - Transport Regulations

US DOT Regulations (Land Transport):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains Diethanolamine)
Hazard Class: 9
UN Number: UN3082
Packing Group: III
Label Required: EHS (9) and Marine Pollutant
Other Information: **ONLY REGULATED IN BULK QUANTITIES (119 gallons or more)**

IATA/ICAO Regulations (Air Transport):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains Diethanolamine)
Hazard Class: 9
UN Number: UN3082
Packing Group: III
Label Required: EHS (9) and Marine Pollutant
Other Information: Quantity Limitation: 450 L

IMDG/IMO Regulations (Maritime Transport):

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains Diethanolamine)
Hazard Class: 9
UN Number: UN3082
Packing Group: III
Label Required: EHS (9) and Marine Pollutant
EMS Number: F-A, S-F
Segregation Groups: Acids.
Marine Pollutant (Y/N): Y
Other Information: -

15 - Regulatory Information

Domestic Regulations

Components requiring notification

SARA 302 (TPQ)	SARA 304 (RQ)	SARA 313	CERCLA (RQ)	CAA 112(b) HAPS	CAA 112(r)
None	None	Diethanolamine 111-42-2	Diethanolamine 111-42-2 (100 lbs)	None	None

SARA 311/312 Hazard Categorization: Acute Health Hazard, Chronic Health Hazard

State Information

California Proposition 65: May contain traces (< 100 ppm) of the following components known to the State of California to cause cancer, birth defects, or other reproductive harm.

Diethanolamine (111-42-2)

**State Right to Know/
Hazardous Substance List
Information:** The following chemicals are present on one or more Right to Know/Hazardous Substance Lists for the states of MA, MN, NJ, PA and RI.

Diethanolamine (111-42-2)

This is not an exhaustive list. For information on listings in other states, please consult that state's RTK/HSL.

Chemical Inventories

United States (TSCA)	EUROPE (EINECS/ELINCS/NLP)	Australia (AICS)	Philippines (PICCS)	Canada		Korea (ECL)	Japan (ENCS/ISHL)	China (IECSC)	New Zealand (NZIoC)
				DSL	NDSL				
Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

16 - Additional Information

Key to Abbreviations:

NDA - No data available N/D - Not determined N/A - Not applicable N/E - Not established

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