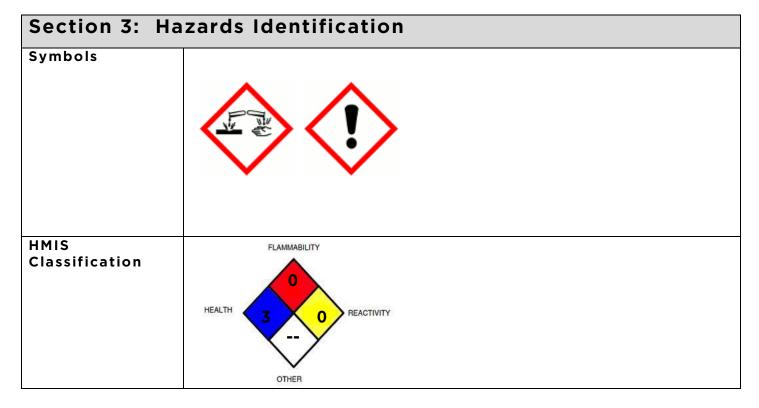


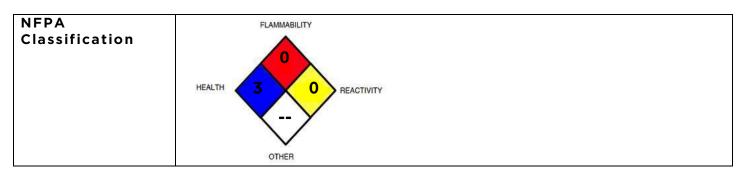
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	DEA NONOate	
Product #:	D-1013	
Synonyms:	Diethylamine NONOate; DEA/NO	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
Diethylammonium (Z)-1-(N,N-	372965-00-9	695-408-4	≥ 98%
diethylamino)diazen-1-ium-1,2-diolate			







Section 4: First Aid Measures		
General	Symptoms of poisoning may even occur after several hours; therefore, medical	
Overview:	observation for at least 48 hours after the accident.	
Inhalation:	In case of unconsciousness place patient stably in side position for	
	transportation	
Skin:	Immediately wash with water and soap and rinse thoroughly.	
Eyes:	Rinse opened eye for several minutes under running water. Then consult a	
	doctor.	
Ingestion:	: Immediately call a doctor.	
	See section 11 for more detailed information on health effects & symptoms.	

SECTION 5:	Fire Fighting Measures
Flammability of	Product is not flammable.
the product:	
Extinguishing	Use firefighting measures that suit the environment. A solid water stream may
Media:	be inefficient.
Hazardous	No data available
thermal	
(de)composition	
products:	
Special Fire	No special measures required.
Fighting	
Procedures:	
Flash Point:	N/A

Section 6: Accidental Release Measures		
Personal	Wear protective equipment. Keep unprotected persons away.	
Precautions:		
Environmental	Do not allow to enter sewers, surface or groundwater.	
Precautions:		
Methods for	Use neutralizing agent. Dispose contaminated material as waste according to	
Clean-up:	Section 13. Ensure adequate ventilation.	



SECTION 7:	Handling & Storage
Storage:	Recommended storage temperature: -20°C
Handling:	Thorough de-dusting

SECTION 8: Exposure controls / Personal Protection Respiratory Protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Skin and Body: Protective gloves and protective clothing. Eyes: Tightly sealed safety goggles Ventilation/Engineering Ensure adequate ventilation. Measures: Hygiene: Handle in accordance with good industrial hygiene and safety practice. Other: N/A

SECTION 9: Physical and Chemical Properties



Appearance &	Solid
Odor:	
Formula	$C_4H_{11}N_3O_2 \cdot C_4H_{11}N$
Molecular Wt.	206.3
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	DMF (2 mg/mL), DMSO (2 mg/mL), Ethanol (25 mg/mL), PBS [pH 7.2] (10
	mg/mL)
Flash Point:	N/A
Autoignition	N/A
Temp:	

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Carbon dioxide, carbon monoxide, nitrogen oxides	
Materials to Avoid:	Oxidizing agents	
Conditions to avoid:	No data available	

SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	On skin: Irritant to skin and mucous membranes. On the eye: Strong irritant with the danger of sever eye injury.	
CHRONIC Toxicity:		
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or	
	equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA	



SECTION 12: Eco	ological Information
Ecotoxicity:	Water Hazard Class 1: slightly hazardous to water. Do not allow undiluted product or large quantities to reach ground water, water course, or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 13: Dis	posal Considerations
Residue Waste or	Must not be disposed of together with household garbage. Do not allow
Unused product:	product to reach sewage system.
Contaminated	Dispose of according federal, state, and local regulations. Do not reuse
Packaging:	container.

SECTION 14: Transportation Information	
UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Regulatory Information		
Health Phrases:	Danger!	
	H302 Harmful if swallowed.	
	H315 Causes skin irritation.	
	H318 Causes serious eye damage.	
	H335 May cause respiratory irritation.	
Risk Phrases:	P261 Avoid breathing dust/fume/gas/mist/vapors/spray	
	P264 Wash thoroughly after handling.	
	P270 Do not eat, drink or smoke when using this product.	
	P271 Use only outdoors or in a well-ventilated area.	
Safety Phrases:	P280 Wear protective gloves / eye protection / face protection.	
	P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.	



	P302+P352 If on skin: Wash with plenty of water.
	P304+P340 IF INHALED: Remove person to fresh air and keep
	comfortable for breathing.
	P305+P351+P338 If in eyes: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
	P310 Immediately call a poison center/doctor.
	P321 Specific treatment (see on this label).
	P330 Rinse mouth.
	P362+P364 Take off contaminated clothing and wash it before reuse.
	P332+P313 If skin irritation occurs: Get medical advice/attention.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
	P501 Dispose of contents/container in accordance with local/regional
	/national/international regulations.
EU Regulations:	N/A
US Regulations:	TSCA: Not listed
	California Proposition 65: No products were found
U.S. Federal	SARA 302/304 emergency planning and notification: No products were
Regulations:	found.
	SARA 311/312 MSDS distribution-chemical inventory-hazard
	identification: No products were found.
	SARA 313 toxic chemicals notification and release reporting: No products
	were found.
	Clean Water Act (CWA) 307: No products were found.
	Clean Water Act (CWA) 311: No products were found.
	Clean Air Act (CAA) 112 accidental release prevention: No products were found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products
	were found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were
	found.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	OSHA: Acute Tox. (Cat 4), Skin Irrit. (Cat 2), STOT SE (Cat. 3)
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.