Zorba NS® Diluent

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision date: 12/19/2024 Date of Issue: 06/11/2015 Supersedes date: 12/03/2024 Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Zorba NS® diluent

Product Code: FA025

1.2. Intended Use of the Product

Diagnostic test component

1.3. Name, Address, and Telephone of the Responsible Party

Company

Zeus Scientific LLC
200 Evans Way
Branchburg, NJ 08876
USA
T 908-526-3744 (Continental USA)
T 800-286-2111 (Additional Information)
www.zeusscientific.com

1.4. Emergency Telephone Number

Emergency Number : 908-526-3744

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Not classified

2.2. Label Elements

GHS-US/CA Labeling: No labeling applicable

Hazard Statements (GHS-US/CA) : Not classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200) or equivalent..

Precautionary Statements (GHS-US/CA) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Sodium azide	(CAS No) 26628-22-8	0.1	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 STOT RE 2, H373 Aquatic Acute 1, H400

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. If a large amount is swallowed call a POISON CENTER or doctor.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Not expected to present a significant hazard under anticipated conditions of normal use.

Inhalation: Overexposure may be irritating to the respiratory system

Skin Contact: Contact during a long period may cause slight irritation.

Eye Contact: Direct contact with the eyes is likely irritating.

Ingestion: Ingestion is not likely to be harmful or have adverse effects.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire hazard: Not considered flammable but may burn at high temperatures.

Explosion hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary measures fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous combustion products: Carbon oxides (CO, CO2). Nitrogen oxides. Combustion produces irritating gases and vapors.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General measures: Avoid all unnecessary exposure.

6.1.1. For non-emergency personnel

Protective equipment: Use appropriate personal protection equipment (PPE).

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and Material for Containment and Cleaning Up

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See section 8, Exposure controls and personal protection. See section 13, disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible materials: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s)

Diagnostic test component

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Sodium azide (26628-22-8)		
USA ACGIH	ACGIH Ceiling (mg/m³)	0.29 mg/m³
USA ACGIH	ACGIH Ceiling (ppm)	0.11 ppm (vapor)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	0.3 mg/m³
USA NIOSH	NIOSH REL (ceiling) (ppm)	0.1 ppm
Alberta	OEL Ceiling (mg/m³)	0.29 mg/m³
Alberta	OEL Ceiling (ppm)	0.11 ppm
Alberta	OEL STEL (mg/m³)	0.3 mg/m³

Sodium azide (26628-22-8)		
British Columbia	OEL Ceiling (mg/m³)	0.29 mg/m³
British Columbia	OEL Ceiling (ppm)	0.11 ppm
Manitoba	OEL Ceiling (mg/m³)	0.29 mg/m³
Manitoba	OEL Ceiling (ppm)	0.11 ppm (vapor)
New Brunswick	OEL Ceiling (mg/m³)	0.29 mg/m³
New Brunswick	OEL Ceiling (ppm)	0.11 ppm (vapor)
Newfoundland & Labrador	OEL Ceiling (mg/m³)	0.29 mg/m³
Newfoundland & Labrador	OEL Ceiling (ppm)	0.11 ppm (vapor)
Nova Scotia	OEL Ceiling (mg/m³)	0.29 mg/m³
Nova Scotia	OEL Ceiling (ppm)	0.11 ppm (vapor)
Nunavut	OEL Ceiling (mg/m³)	0.27 mg/m³
Nunavut	OEL Ceiling (ppm)	0.1 ppm
Northwest Territories	OEL Ceiling (mg/m³)	0.27 mg/m³
Northwest Territories	OEL Ceiling (ppm)	0.1 ppm
Ontario	OEL Ceiling (mg/m³)	0.29 mg/m³
Ontario	OEL Ceiling (ppm)	0.11 ppm
Prince Edward Island	OEL Ceiling (mg/m³)	0.29 mg/m³
Prince Edward Island	OEL Ceiling (ppm)	0.11 ppm (vapor)
Québec	PLAFOND (mg/m³)	0.3 mg/m³
Québec	PLAFOND (ppm)	0.11 ppm
Saskatchewan	OEL Ceiling (mg/m³)	0.29 mg/m³
Saskatchewan	OEL Ceiling (ppm)	0.11 ppm
Yukon	OEL Ceiling (mg/m³)	0.3 mg/m³
Yukon	OEL Ceiling (ppm)	0.1 ppm

8.2. Exposure Controls

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal protective equipment: Not generally required. The use of personal protective equipment may be necessary as conditions warrant.

Materials for protective clothing: Chemically resistant materials and fabrics.

Hand protection: In case of repeated or prolonged contact wear gloves.

Eye protection: In case of splash hazard: chemical goggles or safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental exposure controls: Do not allow the product to be released into the environment.

Consumer exposure controls: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical state : Liquid
Appearance : Not available
Odor : Not available
Odor threshold : Not available
pH : Not available
Evaporation rate : Not available

Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Flammability (solid, gas)	: Not available
Lower flammable limit	: Not available
Upper flammable limit	: Not available
Vapor pressure	: Not available
Relative vapor density at 20 °C	: Not available
Relative density	: Not available
Specific gravity	: Not available
Solubility	: Not available
Partition coefficient: N-octanol/water	: Not available
Viscosity	: Not available
Explosion data – Sensitivity to mechanical impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to static discharge	: Not expected to present an explosion hazard due to mechanical impact.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5. Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous Decomposition Products: Carbon oxides (CO, CO2). Nitrogen oxides. Combustion produces irritating gases and vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute toxicity: Not classified

LD50 and LC50 data: Not available

Skin corrosion/irritation: Not classified Serious Eye Damage/Irritation: Not classified Respiratory or Skin **Sensitization:** Not classified Germ Cell Mutagenicity: Not classified Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific target organ toxicity (Repeated exposure): Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (Single exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: Overexposure may be irritating to the respiratory system.

Symptoms/Injuries after skin contact: Contact during a long period may cause slight irritation.

Symptoms/Injuries after eye contact: Direct contact with the eyes is likely irritating.

Symptoms/Injuries after ingestion: Ingestion is not likely to be harmful or have adverse effects.

Chronic symptoms: None expected under normal conditions of use.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Sodium azide (26628-22-8)	
LD50 Oral Rat	27 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Sodium azide (26628-22-8)	
LC50 Fish 1	0.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC 50 Fish 2	0.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

12.2. Persistence and Degradability: Not available

12.3. Bioaccumulative Potential

Sodium chloride (7647-14-5)	
BCF Fish 1	(no bioaccumulation)

12.4. Mobility in Soil: Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations

SECTION 14: TRANSPORT INFORMATION

14.1. In accordance with DOT: Not regulated for transport.

14.2. In accordance with IMDG: Not regulated for transport.

14.3. In accordance with IATA: Not regulated for transport.

14.4. In accordance with TDG: Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Sodium azide (26628-22-8)	
Listed on the United States TSCA (Toxic Substances Control) Act) inventory Listed on the United States SARA Section 302 Listed on United States SARA Section 313	
SARA section 302 threshold planning quantity (TPQ)	500 (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solution form)
SARA section 311/312 hazard classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA section 313 - Emission reporting	1.0 %

15.2. US State Regulations

Sodium azide (26628-22-8)
U.S. - Massachusetts - Right to know list. U.S. - New Jersey - Right to know hazardous substance list. U.S. - Pennsylvania - RTK (Right to know) - Environmental hazard list. U.S. - Pennsylvania - RTK (Right to know) list.

15.3. Canadian Regulations

Zorba NS® Diluent	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Sodium azide (26628-22-8)	
Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 12/19/2024

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H300	Fatal if swallowed
H310	Fatal in contact with skin
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life

Party Responsible for the Preparation of This Document

Zeus Scientific LLC. 908-526-3744

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS