

Product Identifier: Maxpar® PBS Part ID number: 201058, S00125

#### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Contact information** 

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number

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**Product identifier** Maxpar® PBS

Synonyms None identified

Trade names None identified

Chemical family Mixture - contains sodium azide

Relevant identified uses of the substance or mixture and uses advised against For research use only. Not for use in diagnostic procedures.

Note This SDS is written to address potential health and safety issues associated with the

handling of the formulated product.

**Issue Date** 25 June 2015

#### **SECTION 2 - HAZARDS IDENTIFICATION**

Classification of the substance or mixture

System [GHS]

Globally Harmonized

Not classified

**AU Hazard Classification** 

(NOHSC)

Hazardous substance. Non-hazardous goods.

**Label elements** 

**CLP/GHS** hazard

pictogram

None required

**CLP/GHS** signal word

None required

CLP/GHS hazard

CLP/GHS haza statements None required

**CLP/GHS** precautionary

statements

None required

Other hazards

Mixture - contains sodium azide

The most common adverse effects reported with exposure to sodium azide include dizziness, headache, nausea and vomiting, rapid breathing and heart rate, restlessness, weakness, runny nose, cough, and red eyes. Overexposure to sodium azide may cause convulsions, low blood pressure, loss of consciousness, lung injury, reduced heart rate, and potentially fatal respiratory failure. Inhalation of sodium azide may cause respiratory

irritation.

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Note

This mixture is not classified as hazardous according to Regulation EC No 1272/ 2008 (EU

CLP) and Hazard Communication Standard No. 1910.1200 (US OSHA). The

pharmacological, toxicological and ecological properties of this mixture have not been fully

characterized.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS** 

CAS # **Ingredient** EINECS/ Amount GHS

Classification **ELINCS#** 

Sodium azide 26628-22-8 ATO2: H300; AA1: H400; 247-852-1 0.02%

CA1: H410; EUH032

The ingredient(s) listed above are considered hazardous. The remaining components are Note

non-hazardous and/or present at amounts below reportable limits. See Section 16 for full

text of GHS classifications.

#### **SECTION 4 - FIRST AID MEASURES**

**Description of first aid** measures

> **Immediate Medical** Attention Needed

Yes

**Eye Contact** If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious

quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical

personnel and supervisor.

**Skin Contact** Wash exposed area with soap and water and remove contaminated clothing/shoes. If

irritation occurs or persists, notify medical personnel and supervisor.

Inhalation Immediately move exposed subject to fresh air. If not breathing, give artificial respiration.

If breathing is labored, administer oxygen. Immediately notify medical personnel and

Contains low levels of sodium azide. Medical conditions aggravated by exposure: None

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supervisor.

Do not induce vomiting unless directed by medical personnel. Do not give anything to **Ingestion** 

drink unless directed by medical personnel. Never give anything by mouth to an

unconscious person. Notify medical personnel and supervisor.

Protection of first aid

responders

See Section 8 for Exposure Controls/Personal Protection recommendations.

Most important symptoms and effects, both acute and

delayed

See Sections 2 and 11.

**Indication of immediate** medical attention and special treatment needed,

if necessary

known or reported. Treat symptomatically and supportively.

#### **SECTION 5 - FIREFIGHTING MEASURES**

Extinguishing media Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for

surrounding fire and materials.

the substance or mixture

**Specific hazards arising from** No information identified. May emit nitrogen-containing compounds.

Flammability/Explosivity No information identified.



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Advice for firefighters

Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all

equipment after use.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately

ventilated. Do not breathe mist/vapors/spray.

**Environmental precautions** 

Do not empty into drains. Avoid release to the environment.

Methods and material for containment and cleaning up

If vials are crushed or broken, DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13).

Decontaminate the area twice.

Reference to other sections

See Sections 8 and 13 for more information.

#### **SECTION 7 - HANDLING AND STORAGE**

Precautions for safe handling Avoid breathing vapor or mist. Do not permit eating/drinking/smoking near this material. All materials used for transferring or preparing this product must be considered

contaminated and disposed of properly.

Conditions for safe storage

including any incompatibilities Store at 2-8°C in tightly closed container. Avoid strong oxidizers. Store in sealed

containers that are appropriately labeled.

Specific end use(s) No information identified.

#### **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Note Dispose of broken vials/syringes in a sharps container.

Control Parameters/Occupational **Exposure Limit Values** 

Sodium azide

Compound OEL <u>Issuer</u> Type ACGIH, Australia, **OEL-STEL** 

> Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania,

Malta, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, U.S.- California OSHA, United Kingdom

New Zealand, Ceiling 0.29 mg/m<sup>3</sup>

 $0.3 \, \text{mg/m}^3$ 

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Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, U.S California OSHA,United Kingdom		0.1 mg/m <sup>3</sup>
NIOSH, U.S California OSHA	Ceiling	0.3 mg/m <sup>3</sup>
Germany	OEL-STEL	0.4 mg/m <sup>3</sup>
Germany	OEL-TWA	0.2 mg/m <sup>3</sup>

Exposure/Engineering controls

If handling bulk product or vials are opened/crushed/broken: Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/ mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling. High-energy operations should be done within an approved emission control or containment system.

Respiratory protection

If handling bulk product or vials are opened/crushed/broken: Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine powder handling tasks, an approved and properly fitted air purifying respirator should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls.

**Hand protection** 

Wear nitrile or other impervious gloves if skin contact is possible. When the material is diluted in an organic solvent, wear gloves that provide protection against the solvent.

Skin protection

Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.

Eye/face protection

Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

**Environmental Exposure Controls** 

Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

Other protective measures

Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Clear liquid

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> Color Colorless Odor Odorless.

Odor threshold No information identified. pН No information identified.

Melting point/freezing

point

No information identified.

Initial boiling point and

boiling range

No information identified.

No information identified. Flash point **Evaporation rate** No information identified. Flammability (solid, gas) No information identified.

or explosive limits

Upper/lower flammability No information identified.

Vapor pressure No information identified Vapor density No information identified. No information identified. Relative density Water solubility Fully soluble in water. Solvent solubility No information identified.

Partition coefficient (noctanol/water)

No information identified.

Auto-ignition temperature No information identified.

Decomposition temperature

No information identified.

**Viscosity** No information identified. **Explosive properties** No information identified. **Oxidizing properties** No information identified.

Other information

Molecular weight Not applicable (Mixture) Molecular formula Not applicable (Mixture)

# **SECTION 10 - STABILITY AND REACTIVITY**

Sodium azide may react with lead or copper plumbing to form highly explosive metal Reactivity

**Chemical stability** Stable under normal temperatures and pressures.

Possibility of hazardous

reactions

No information identified.

Keep away from strong oxidizing agents. Conditions to avoid

**Incompatible materials** Strong oxidizing agents **Hazardous decomposition** No information identified. products

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### **SECTION 11 - TOXICOLOGICAL INFORMATION**

# Information on toxicological

effects

Route of entry May be absorbed by inhalation, skin contact and ingestion.

**Acute toxicity** 

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>	
Sodium azide	LD <sub>50</sub>	Oral	Rat	27 mg/kg	
	LD <sub>50</sub>	Oral	Mouse	27 mg/kg	
	LD50	Dermal	Rabbit	20 mg/kg	

Irritation/Corrosion No studies identified. Sensitization No studies identified. STOT-single exposure No studies identified.

STOT-repeated exposure/Repeat-dose

toxicity

No studies identified.

No studies identified. Reproductive toxicity **Developmental toxicity** No studies identified. No studies identified. Genotoxicity

No studies identified. This mixture is not listed by NTP, IARC, ACGIH or OSHA as a Carcinogenicity

carcinogen.

**Aspiration hazard** No data available.

See Section 2 - "Other hazards" **Human health data** 

### **SECTION 12 - ECOLOGICAL INFORMATION**

**Toxicity** 

Compound	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Sodium azide	LC <sub>50</sub> /96h	Oncorhynchus mykiss	0.8 mg/L
	LC <sub>50</sub> /96h	Lepomis macrochirus	0.7 mg/L
	LC <sub>50</sub> /96h	Pimephales promelas	5.46 mg/L

Additional toxicity information

Sodium azide is toxic to aquatic organisms and should not be allowed to accumulate in

metal piping as it has the potential to form explosive mixtures.

Persistence and Degradability No data identified.

**Bioaccumulative potential** No data identified. Mobility in soil No data identified. Results of PBT and vPvB Not performed. assessment

Other adverse effects

No data identified.

Note The environmental characteristics of this product/mixture have not been fully

> investigated. The above data are for the active ingredient and/or any other ingredient(s) where applicable. Although present at low concentrations, disposal should consider that

sodium azide is present. Releases to the environment should be avoided.

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#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste treatment methods

Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on- site wastewater treatment facility.

### **SECTION 14 - TRANSPORT INFORMATION**

Based on the available data, this mixture is not regulated as a hazardous material/ **Transport** 

dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

**UN** number None assigned.

**UN proper shipping name** None assigned.

Transport hazard classes and packing group

None assigned

**Environmental hazards** 

Based on the available data, this mixture is not regulated as an environmental hazard or

a marine pollutant.

**Special precautions for users** No special precautions needed. Avoid release to the environment.

Transport in bulk according to Annex II of MARPOL73/78

and the IBC Code

Not applicable.

Hazardchem Code/HIN

None assigned.

#### **SECTION 15 - REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation

specific for the substance or

mixture

This SDS complies with the requirements under US, EU and GHS (EU CLP - Regulation EC No 1272/2008) guidelines. Consult your local/regional authorities for more information.

**Chemical safety assessment** Not conducted.

WHMIS classification Not classified.

**TSCA status** Not listed

SARA section 313 Not listed.

California proposition 65 Not listed.

Component Analysis - State Sodium azide is listed as hazardous in CA, HI, MA, MN, NJ, PA, RI, VT, and WA.

Component Analysis -Sodium azide is listed in the chemical inventory of the following countries: **Chemical Inventory** Australia, Canada, China, EU, Japan, New Zealand, and the Philippines.

Additional information No other information identified.

### **SECTION 16 - OTHER INFORMATION**

NFPA Ratings Sodium azide Health: 3 Fire: 0 Reactivity: 2

Full text of H phrases and **GHS** classifications

ATO2 – Acute Toxicity (Oral) Category 2. H300 – Fatal if swallowed. AA1 – Acute aquatic toxicity Category 1. H400 - Very toxic to aquatic life. CA1 - Aquatic toxicity (chronic) -

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Category 1. EUH032 - Contact with acids liberates very toxic gas.

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Sources of data

Information from published literature and internal company data.

**Abbreviations** 

ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID -European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CA - California; CAS# Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS -Globally Harmonized System of Classification and Labeling of Chemicals; HI - Hawaii; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; MA - Massachusetts; MN - Minnesota; NJ - New Jersey; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PA - Pennsylvania; PNEC - Predicted No Effect Concentration; RI - Rhode Island; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; VT - Vermont; WA - Washington; WHMIS -Workplace Hazardous Materials Information System

Revisions

This is the third version of this SDS.

**Disclaimer** 

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