

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers

Product name: Marrowpan
Product number: P04-70200

Brand: PAN Biotech

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: for invitro diagnostic use, not for human or animal therapeutic use

Details of the supplier of the safety data sheet

Company: PAN Biotech GmbH
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GERMANY

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Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

2. HAZARDS IDENTIFICATION

Signal Word not hazardous
Health Hazard not hazardous
Physical Hazards not hazardous
Principle Routes of Exposure/Potential Health effects
Eyes May cause eye irritation with susceptible persons.
Skin May cause skin irritation in susceptible persons.
Inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EINECS-No	Weight %
Selenium compounds	none	-	<0.01
Zinc compounds, inorganic	none	-	<0.01

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. FIRST AID MEASURES

After inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

After skin contact

In case of contact, immediately wash skin with soap and copious amounts of water.

After eye contact

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

After ingestion

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

Special risks

Specific Hazard(s): Emits toxic fumes under fire conditions.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Procedure(s) of personal precaution (s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for cleaning up

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

Directions for Safe Handling: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Store at -20°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Mechanical exhaust required. Safety shower and eye bath.

General Hygiene Measures

Wash thoroughly after handling.

Personal protective equipment

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form:	liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evapouration rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient: noctanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

10. STABILITY AND REACTIVITY

Reactivity
no data available
Chemical stability
no data available
Possibility of hazardous reactions
no data available
Incompatible materials
Strong oxidizing agents
Hazardous decomposition products
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Signs and symptoms of exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Route of exposure

Skin Contact:	Causes skin irritation.
Skin Absorption:	May be harmful if absorbed through the skin.
Eye Contact:	Causes eye irritation.
Inhalation:	May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
Ingestion:	May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherently biodegradable
Bioaccumulation	Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Substance disposal

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

RID/ADR	Non-hazardous for road transport.
IMDG	Non-hazardous for sea transport.
IATA	Non-hazardous for air transport.

15. REGULATORY INFORMATION

Classification and labelling according to EU directives

Indication of danger Xi

Irritant.

R-PHRASES: 36/37/38

Irritating to eyes, respiratory system and skin.

S-PHRASES: 26-36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

Caution: Substance not yet fully tested (EU).

Country specific information

Germany
WGK: 3
Self-Classification

16. OTHER INFORMATION

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pan-biotech.com or reverse side of invoice or packing slip for additional terms and conditions of sale.

Disclaimer

For in vitro diagnostic use.