

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH)

1. Identification of the Product and of the Company

Product: Melatonin RIA (RK-MEL2) Product use: In Vitro Diagnostic device for measuring of melatonin in serum, plasma, urine and other biological specimen

Substance name: Sodium azide CAS No.: 26628-22-8

Company: **NovoLytiX GmbH**
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2. Hazardous identification

Sodium azide

2.1 Classification of the ingredients

Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL and/or M-factor	Classification procedure
<i>Acute Tox., Category 2, H300</i>	<i>Not applicable</i>	<i>Classification from supplier</i>
<i>Aquatic Acute, Category 1, H400</i>	<i>Not applicable</i>	<i>Classification from supplier</i>
<i>Aquatic Chronic, Category 1, H410</i>	<i>Not applicable</i>	<i>Classification from supplier</i>

2.1.1 Additional information

Full text of R-, H- and EUH-phrases: see section 16.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Product identifier:

Substances: Sodium azide

Mixtures: **B-MEL-CONSET**
B-MEL-IB
B-MEL-TR
B-MEL-AS

Hazard components for labeling: Sodium azide

Hazard pictograms:



GHS06



GHS09

Signal word:
Danger

Hazard statements:

H300 Fatal if swallowed
H410 Very toxic to aquatic life with long lasting effects
EUH032 Contact with acids liberates very toxic gas

Precautionary statements:

Prevention:

P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard

information (EU): EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.
Rapidly absorbed through skin.

3. Composition/information on ingredients

3.1 Description of the mixture

B-MEL-CONSET clear, yellowish solution
B-MEL-TR clear, colorless solution
B-MEL-AS clear, colorless solution

3.1.1 Hazardous ingredients

Substance name	CAS No.	INDEX No.	EC No.	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]
Sodium azide (NaN ₃)	26628-22-8	011-004-00-7	247-852-1	□ 0.1 %*	Acute Tox., Category 2, H300 Aquatic Acute, Category 1, H400 Aquatic Chronic, Category 1, H410

* In the mixture mentioned under section 3.1

3.1.2 Additional information

For the full text of the H-Statements mentioned in this Section, see Section 16.
This mixture does not contain further substances fulfilling the criteria of hazard class "acute toxicity" according to CLP regulation.

4. First aid Measures

4.1 Description of first aid measures

If swallowed give water to drink (two glasses at most). Consult a physician.

4.1.1 General information

Consult a physician. Show this safety data sheet to the doctor in attendance.

4.1.2 Following inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.1.3 Following skin contact

Wash off with soap and plenty of water. Consult a physician.

4.1.4 Following eye contact

Flush eyes with water as a precaution for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Consult a physician.

4.1.5 Following ingestion

Never give anything by mouth to an unconscious person!
Do not induce vomiting.
Rinse mouth with water. Consult a physician.

4.1.6 Self-protection of the first aider

Avoid any skin contact

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

Only applicable if in the storage room is a big quantity (more than 2000) of Melatonin RIA Kit.

The mixtures are non-flammable. Use extinguishing media appropriate to surrounding fire.

5.1 Extinguishing media

Suitable extinguishing media:	Dry powder
Unsuitable extinguishing media:	Water, Foam

5.2 Special hazards arising from the substance or mixture

Hazardous combustion substance: Sodium oxides

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.
Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Additional information

No data available

6. Accidental Release Measures

Only applicable if the release in the room came from a big quantity (more than 2000) of Melatonin RIA Kit

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Wear respiratory protection.
Emergency procedures: Avoid dust formation. Avoid breathing vapours, mist or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Avoid breathing dust.
For personal protection see section 8.

6.1.2 For emergency responders

Personal protective equipment: Wear respiratory protection.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water.
Keep in suitable, closed containers for disposal.

6.4 Additional information

Sodium azide can be rendered harmless by spraying with or immersion into a 0.1 N solution of ammonium (IV) nitrate in 2 N perchloric acid.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.1.1 Protective measures

Advice on safe handling: Store in cool place.
Keep container tightly closed in a dry and well-ventilated place.
Aerosol and dust generation
preventions: Do not store near acids.
Environmental precautions: Never allow product to get in contact with water during storage.

7.1.2 Advice on general occupational hygiene

Change contaminated clothing. Wash skin after came into direct contact with the substance.

7.2 Conditions for safe storage, including any incompatibilities

Tightly closed. Dry. Keep in a well-ventilated place. Keep in an area accessible only to qualified or authorised persons.

7.3 Specific end uses

Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. Exposure control/personal protection

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

8.1 Exposure controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.1.2 Personal protective equipment

8.1.2.1 Eye / Face protection

Suitable eye protection: safety glasses
Other eye protection measures: safety glasses

8.1.2.2 Skin protection

Hand protection: Glove.
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Body protection: Coat

8.1.2.3 Respiratory protection

Required when dusts are generated. Recommended Filter type: Filter P3 (acc. to EN 143) for solid and liquid particles of toxic substances.

9. Physical and Chemical Properties

Reagents	Appearance	Odor	Boiling Point	pH	Rel. Density	Auto-inflam-mability	Inflam-mability	Oxydis-ing Properties	Solubility in Water	Vapor Pressure
<i>B-MEL-CONSET</i>	<i>clear, yellowish solution</i>	<i>n/a</i>	<i>~100 °C</i>	<i>6.8- 7.4</i>	<i>~1 g/ml</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>suspension</i>	<i>n/a</i>
<i>B-MEL-TR</i>	<i>clear, colorless solution</i>	<i>n/a</i>	<i>~100 °C</i>	<i>6.9- 7.1</i>	<i>~1 g/ml</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>complete</i>	<i>n/a</i>
<i>B-MEL-AS</i>	<i>clear, colorless solution</i>	<i>n/a</i>	<i>~100 °C</i>	<i>6.9- 7.1</i>	<i>~1 g/ml</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>complete</i>	<i>n/a</i>

9.1 Other information

None

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

High temperature (decomposition)

10.5 Incompatible materials

Halogenated hydrocarbon, Metals, Acids, Acid chlorides, Hydrazine, Dimethyl sulfate, Inorganic acid chlorides

10.6 Hazardous decomposition products

No data available. In the event of fire: see section 5

11. Toxicological Information

11.1 Information on toxicological effects

11.1.1 Substances

Substance: Sodium acid

	Effect dose / -concentration	Species	Method	Symptoms / delayed effects	Remark
Substance 1					
Acute oral toxicity	LD50: 27 mg/kg	Rat	-	Irritations of mu- cous membranes in the mouth, pharynx, oesopha- gus and gastroin- testinal tract.	-
Acute dermal toxicity	LD50: 20 mg/kg	Rabbit	-	-	-
Acute inhalative toxicity (gas)	-	-	-	Irritation symptoms in the respiratory tract.	-

12. Ecological Information

12.1 Toxicity

Toxicity to fish mortality LC50 - Pimephales promelas (fathead minnow) - 5,46 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata - 0,35 mg/l - 96 h
(OECD Test Guideline 201)

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Substance 1: Sodium acid

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

Substance 1: Sodium acid

Very toxic to aquatic life with long lasting effects.

13. Disposal

13.1 Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations.

Dispose of contents/container to comply with local, state and federal regulations.

13.1.1 Product / Packaging disposal

Packaging material should be disposed according to local State and Federal regulations.

14. Transportation Information

For Sodium acid

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	1687	NA	1687	1687
14.2 UN Proper shipping name	SODIUM AZIDE	NA	SODIUM AZIDE	SODIUM AZIDE
14.3 Transport hazard class(es)	6.1	NA	6.1	6.1
14.4 Packing group	II	NA	II	II
14.5 Environmental hazards	yes	NA	Marine pollutant: yes	no

14.1 Special precautions for user

No data available

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance

Sodium acid

15.1.1 EU regulations

Authorisation: 96/82/EC
Restrictions on use: Very toxic and dangerous for the environment
Other EU regulations: not regulated

15.1.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

Full text of H-Statements referred to under different sections of this document.

EUH032 Contact with acids liberates very toxic gas.
H300 Fatal if swallowed.
H300 + H310 Fatal if swallowed or in contact with skin
H310 Fatal in contact with skin.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

The information provided in this Material Safety Data Sheet (MSDS) is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability for its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

16.1 Training advice

Provide adequate information, instruction and training for operators.