

MATERIAL SAFETY DATA SHEET

Novobiocin Supplement for MKTTn

Date of Issue: 01/17/2024

Material Safety Data sheet

Section 1: Product and Company Information				
Product Name	Novobiocin Supplement for MKTTn			
Catalogue Number	iS47041	Technical Phone	0098 21 66787291	
			09391003565	
E-mail	ibresco@gmail.com	Fax No	0098 2633523460	
Company Address	Zist Kavosh Iranian, No.432, East Kokab Av,45 Metri Golshahr, Karaj, Iran.			

Section 2: Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Acute toxicity, Oral (Category 4), H302

Eye irritation (Category 2A), H319

Skin sensitization (Category 1), H317

GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

none

Section 3: Composition / Information on Ingredients

Mixture

Synonyms

Muller-Kauffmann Tetrathionate Novobiocin Supplement

Novobiocin Selective Supplement

Component		Classification	Concentration*	
Novobiocin monosodium				
Formula Molecular weight CAS-No. EC-No.	C31H35N2NaO11 634.61 g/mol 1476-53-5 216-023-6	Acute Tox. 4; Eye Irrit. 2A; Skin Sens. 1; H302, H319, H317	<= 100 %	

^{*} Weight %

Section 4: First Aid Measures

Description of first-aid measures

General advice Show this material safety data sheet to the doctor in attendance.

If inhaled After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin

with water/ shower. Consult a physician.

In case of eve contact After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove

contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult

a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Sodium oxides

Combustible.

Development of hazardous combustion gases or vapors possible in the event of fire.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Storage conditions Tightly closed. Dry.

Storage stability Recommended storage temperature 2 - 8 °C

Storage class (TRGS 510): 11: Combustible Solids

Section 8: Exposure Controls / Personal Protection

Control parameters

Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash

hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

Skin protection

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Body Protection

protective clothing

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties		
Physical state	Powder	
Color	Beige	
Odor	No data available	
Odor Threshold	No data available	
Melting point/freezing point	Melting point/range: 215 °C (419 °F)	
Initial boiling point and boiling range	No data available	
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Upper/lower flammability or explosive limits	No data available	
Flash point	Not applicable	
Vapor pressure	No data available	
Vapor density	No data available	
Autoignition temperature	No data available	
Decomposition temperature	220 °C (428 °F) -	
рН	6.5 - 8.5	
Viscosity	No data available	
Water solubility	Soluble	
Partition coefficient: n-octanol/water	log Pow: 2.9 at 25 °C (77 °F) - Bioaccumulation is not expected.	
Relative density	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	
Other safety information	No data available	

Section 10: Stability and Reactivity

Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

Violent reactions possible with: Strong oxidizing agents

Conditions to avoid

no information available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects

Mixture

LD50 Oral - Mouse - 962 mg/kg

Remarks: (RTECS)

Acute toxicity Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation No data available

Eves - Rabbit

Serious eve damage/eye irritation Result: slight irritation

Remarks: (External MSDS)

Respiratory or skin sensitization May cause allergic skin reaction.

Germ cell mutagenicity

Reproductive toxicity

No data available

Specific target organ toxicity - single

No data available

exposure

Specific target organ toxicity - repeated No data available

exposure

Aspiration hazard No data available

RTECS: RD5425000 Vomiting, Diarrhea

To the best of our knowledge, the chemical, physical, and toxicological properties

Additional Information have not been thoroughly investigated.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Section 12: Ecological Information		
Toxicity		
Mixture	No data available	
Persistence and degradability	No data available	
Bio accumulative potential	No data available	
Mobility in soil	No data available	
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted.	
Other adverse effects	No data available	

Section 13: Disposal Consideration

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information		
TDG	Not regulated as a dangerous good	
IMDG	Not dangerous goods	
IATA	Not dangerous goods	
Further information	Not classified as dangerous in the meaning of transport regulations.	

Section 15: Regulatory Information

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

Section 16: Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

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. *ibresco* shall not be held liable for any damage resulting from handling or from contact with the above product.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.