

# Safety Data Sheet (SDS)

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## 1. PRODUCT AND COMPANY IDENTIFICATION

## 1.1 Product identifiers

Product name: Ubenimex Product Catalogue Number: 206765

Brand: MedKoo Biosciences

CAS-No: 58970-76-6

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

Identified uses: Laboratory chemicals, Synthesis of substances.

# 1.3 Details of the supplier of the safety data sheet

Company: MedKoo Biosciences, Inc.

2500 Gateway Centre Blvd. Suite 400, Morrisville, NC27560, USA

Telephone: 919-636-5577 Fax: 919-980-4831

#### 1.4 Emergency telephone number

For chemical emergency spill, leak, fire, exposure, or accident call CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted).

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corrosion/Irritation, Category 2, H315

Serious Eye Damage/Eye Irritation, Category 2, H319

Specific Target Organ Toxicity (single exposure), Category 3, H335

#### 2.2 Label elements

Pictogram

Signal word

Warnin

## **Hazard statement(s)**

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

#### **Precautionary statement(s)**

P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/ eye protection/ face protection.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell. 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 before reuse.

# **2.3 Other hazards** – no data available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances

Synonyms: NK 421, NK-421, NK421, Bestatin, NSC 265489, NSC265489, NSC-265489

Formula:  $C_{16}H_{24}N_2O_4$  Molecular weight: 308.38 CAS-No: 58970-76-6

Component	Classification	Concentration
Ubenimex	Skin Corr. 2: H315; Eye Damage 2: H319; STOT (SE) 3: H335	<= 100 %

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#### 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

#### General advice

Consult a doctor and show this safety data sheet.

#### If inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

#### In case of skin contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

## In case of eve contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

## If swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

# 4.2 Most important symptoms and effects, both acute and delayed

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

## 4.3 Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

# 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# 5.2 Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes.

# 5.3 Precautions for fire-fighters

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

## 6. ACCIDENTIAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

#### **6.2 Environmental precautions**

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover spillage with suitable absorbent material. Sweep up material and place in an appropriate container. Hold all material for appropriate disposal as described under section 13 of SDS.

# **6.4 Reference to other sections**

For required PPE see section 8. For disposal see section 13.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

# 7.2 Conditions for safe storage, including any incompatibilities.

Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use.

Recommended storage temperature: Store at -20°C

# 7.3 Specific end uses

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

# **Appropriate engineering controls**

Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

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# Personal protective equipment

## **Eye/face protection**

Use appropriate safety glasses.

# Skin protection

Use appropriate chemical resistant gloves (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

# **Body protection**

Wear appropriate protective clothing.

## **Respiratory protection**

If risk assessment indicates necessary, use a suitable respirator.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties					
Appearance	White to off white solid	Vapor pressure	No data available		
Odor	No data available	Vapor density	No data available		
Odor threshold	No data available	Relative density	No data available		
pН	No data available	Solubility(ies)	DMSO; ~0.16 mg/ml in		
			PBS (pH 7.2)		
Melting / freezing point	No data available	Partition coefficient	No data available		
Boiling point / range	No data available	Auto-ignition	No data available		
		temperature			
Flash point	No data available	Decomposition	No data available		
		temperature			
Evaporation rate	No data available	Viscosity	No data available		
Flammability (solid, gas)	No data available	Explosive properties	No data available		
Upper / lower flammability or explosive	No data available	Oxidising properties	No data available		
limits					

## 9.2 Other safety information

No data available

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

Stable under recommended transport or storage conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

# 10.4 Conditions to avoid

Heat, moisture.

## 10.5 Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

# 10.6 Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

## 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

# **Acute Toxicity**

Oral LD (rat): >2 gm/kg; Intraperitoneal LD50 (rat): 780 mg/kg; Subcutaneous LD50 (rat): 1900 mg/kg; Oral LD (mouse): >4 gm/kg; Intraperitoneal LD50(mouse): 190 mg/kg; Subcutaneous LD50 (mouse): 1300 mg/kg

#### **Chronic Toxicity**

Investigated as a drug, mutagen, natural product, and reproductive effector.

#### **Additional Information**

RTECS No: OH2915000

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

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

No data available

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#### 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumlative potential

No data available

# 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

No data available

#### 13. DISPOSAL CONSIDERATIONS

# 13.1 Waste treatment methods

#### **Product**

Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with National legislation.

#### Contaminated packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with National legislation.

## 14. TRANSPORT INFORMATION

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID and IATA.

## 14.1 UN-Number

Does not meet the criteria for classification as hazardous for transport.

# 14.2 UN proper shipping name

Does not meet the criteria for classification as hazardous for transport.

# 14.3 Transport hazard class(es)

Does not meet the criteria for classification as hazardous for transport.

#### 14.4 Packaging group

Does not meet the criteria for classification as hazardous for transport.

#### 14.5 Environmental hazards

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

# 14.6 Special precautions for users

No data available

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

No data available

# California Proposition 65

Not applicable

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been made for this product.

#### 16. OTHER INFORMATION

## **Further Information**

Copyright © Medkoo Bioscience. This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislature. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. See www.medkoo.com for additional terms and conditions of sale.

## **Preparation Information**

MedKoo Biosciences, Inc. Product Safety – multiple Region

Tel: 919-636-5577

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