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1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers			
Product name:	VRT-043198		
Product Catalogue Number:	205941		
Brand:	MedKoo Biosciences		
CAS-No:	244133-31-1		
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 irritation (Category 2), H315 Serious eye damage (Category 1), H318 Respiratory sensitisation (Category 1), H334 Skin sensitisation (Category 1), H317 Germ cell mutagenicity (Category 2), H341 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - single exposure (Category 1), H370 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Chronic aquatic toxicity (Category 4), H413
For the full text of the H-Statements mentioned in this Section, see Section 16.

Tor the full text of the H Statements mentioned in this Section, St

2.2 Label elements

Pictogram

Signal word



Hazard statement(s)	-
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction
H318:	Causes serious eye damage.
H334:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335:	May cause respiratory irritation.
H341:	Suspected of causing genetic defects.
H361:	Suspected of damaging fertility or the unborn child.
H370:	Causes damage to organs.
H413:	May cause long lasting harmful effects to aquatic life.
Precautionary statement(s)	
P201:	Obtain special instructions before use.
P202:	Do not handle until all safety precautions have been read and understood.
P260:	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264:	Wash skin thoroughly after handling.
P270:	Do not eat, drink or smoke when using this product.
P271:	Use only outdoors or in a well-ventilated area.
P272:	Contaminated work clothing should not be allowed out of the workplace.
P273:	Avoid release to the environment.
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.
P310:	Immediately call a POISON CENTER/doctor.
P321:	Specific treatment (see supplemental first aid instructions on this label).
P333 + P313:	If skin irritation or rash occurs: Get medical advice/ attention.
P362:	Take off contaminated clothing and wash before reuse.
P403 + P233:	Store in a well-ventilated place. Keep container tightly closed.
P405:	Store locked up.
P501:	Dispose of contents/ container to an approved waste disposal plant.

MedKoo Saftey data Sheet

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	
Synonyms:	VRT043198, VRT-043198, VRT 043198
Formula:	C22H29ClN4O6
Molecular weight:	480.94
CAS-No:	244133-31-1

Component	Classification	Concentration
VRT-043198	Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Repr. 2; STOT SE 3; Aquatic	<= 100 %
	Chronic 4; H315, H317, H318, H334, H335, H341, H361, H413	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a doctor and show this safety data sheet.

If inhaled

3.1

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 eye 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. **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

7.1 mormation on basic physical and chemical properties				
Appearance	White to off wite solid powder	Vapor pressure	No data available	
Odor	No data available	Vapor density	No data available	
Odor threshold	No data available	Relative density	No data available	
рН	No data available	Solubility(ies)	No data available	
Melting / freezing point	No data available	Partition coefficient	No data available	
Boiling point / range	No data available	Auto-ignition temperature	No data available	
Flash point	No data available	Decomposition temperature	No data available	
Evaporation rate	No data available	Viscosity	No data available	
Flammability (solid, gas)	No data available	Explosive properties	No data available	
Upper / lower flammability or expl	losive limits No data available	Oxidising properties	No data available	

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

II. IOAICOLOGICAL INFORMATION
11.1 Information on toxicological effects
Acute Toxicity
No data available
Skin corrosion/irritation
Classification criteria are not met based on available data
Serious eye damage/irritation
Classification criteria are not met based on available data
Respiratory or skin sensitization
Classification criteria are not met based on available data
Germ cell mutagenicity
Classification criteria are not met based on available data
Carcinogenicity
Classification criteria are not met based on available data
Reproductive toxicity
Classification criteria are not met based on available data
Specific target organ toxicity - single exposure
Classification criteria are not met based on available data
Specific target organ toxicity - repeated exposure
Classification criteria are not met based on available data
Aspiration hazard
Classification criteria are not met based on available data
Symptoms / Routes of exposure
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion: There may be irritation of the throat.
Skin: There may be mild irritation at the site of contact.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available
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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