

SAFETY DATA SHEET

1. Identification

1.1. Product name	MitoSpy™ Orange CMTMRos
Product code	2724015, 2724020
Substance name	MitoSpy™ Orange CMTMRos
Product form	Substance
CAS no	N/A
Formula	$C_{24}H_{24}Cl_2N_2O$
1.2. Relevant identified uses of the substance or mixture and uses advised against	
Use of the substance/mixture	Research use only
1.3. Supplier Address Telephone, fax, email	SONY BIOTECHNOLOGY INC. 1730 North First Street, San Jose, CA 95112 U.S.A. Voice: +1 800-275-5963, FAX: +1 408-352-4130, SBTcustomerservice@sonybiotechnology.com
1.4. e-mail address of person responsible for this SDS	SBTcustomerservice@sonybiotechnology.com
1.5. Emergency telephone number	US: +1 800-275-5963 (6:00AM – 5:30PM PT, M-F)

2. Hazards Identification

2.1. Classification of the substance or mixture	
GHS-US classification	Not classified.
2.2. Label elements	
GHS-US labelling	No labelling applicable.
2.3. Other hazards	No additional information available.
2.4. Unknown acute toxicity (GHS US)	None known.

3. Composition/Information on Ingredients

3.1. Substance/mixture	Substance
Name Product identifier % GHS-US classification	None by OSHA HazCom 2012 criteria.
3.2. Mixture	Not applicable.

4. First Aid Measures

4.1. Description of first aid measures	
First-aid measures after inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	Immediately remove contaminated clothes, and wash with soap and copious amounts of water. Get medical attention if irritation persists.

First-aid measures after eye contact	In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
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First-aid measures after ingestion	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	May be harmful if swallowed.
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Symptoms/injuries after skin contact	May cause skin irritation
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Symptoms/injuries after eye contact	May cause eye irritation.
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Symptoms/injuries after ingestion	May be harmful if swallowed.
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4.3. Indication of immediate medical attention and special treatment needed	Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
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5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, carbon dioxide, dry chemical powder or appropriate foam. Treat for surrounding material.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	Not available.
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5.3. Advice for firefighters

Protection during firefighting	Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
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6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
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6.2. Methods and material for containment and cleaning up

For containment	Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
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Methods for cleaning up	Scoop up material and place in a disposal container.
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6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling

This product contains human cells, a potentially biohazardous material. Use universal precautions when handling and treat as if the product were capable of transmitting disease. When handling or disposing, follow precautions described in CDC and FDA recommendations and OSHA Bloodborne Pathogen recommendations. Avoid contact with skin and eyes. Avoid breathing vapour or mist. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures

Laundry contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store at -20°C. Protect from light.

7.3. Specific end use(s)

Not available.

8. Exposure Controls / Personal Protection

8.1. Control parameters

No additional information available.

8.2. Exposure controls

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection

Wear suitable gloves.

Eye protection

Safety glasses or goggles are recommended when handling product.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls

Maintain levels below Community environmental protection thresholds.

Other information

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

9. Physical and Chemical Properties

Appearance	No data available
Physical state	Solid
Colour	Colorless.
Odour	No characteristic odor
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	Not applicable
Flash point	No data available
Relative evaporation rate (butylacetate=1)	No data available
Flammability (solid, gas)	Not flammable
Explosive limits	No data available
Explosive properties	No data available
Oxidising properties	No data available
Vapor pressure	Not applicable
Relative density	Not applicable
Relative vapour density at 20 °C	Not applicable
Solubility in water	None to slight
Solubility-other	DMF, DMSO, chloroform, methanol

Partition coefficient: n-octanol/water	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

9.2. Other information No additional information available.

10. Stability and Reactivity

10.1. Reactivity No dangerous reaction known under conditions of normal use.

10.2. Chemical stability Stable under normal storage conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid moisture, strong bases and strong oxidizing agents.

10.5. Incompatible materials Avoid moisture, strong bases and strong oxidizing agents.

10.6. Hazardous decomposition products None if used according to specifications.

11. Toxicological Information

11.1. Information on toxicological effects

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

MitoSpy™ Orange CMTMRos	LD50 oral rat	—
	LD50 dermal rabbit	—
	LC50 inhalation rat	—

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Symptoms related to the physical, chemical and toxicological characteristics

After inhalation May be harmful if inhaled.

After skin contact May cause skin irritation.

After eye contact May cause eye irritation.

After ingestion May be harmful if swallowed.

12. Ecological Information

12.1. Toxicity.

Ecology -general

This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

12.2. Persistence and degradability

MitoSpy™ Orange CMTMRos

Persistence and degradability

Not established.

12.3. Bioaccumulative potential

MitoSpy™ Orange CMTMRos

Bioaccumulative potential

Not established.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

No known significant effects or critical hazards.

Effect on the global warming

No known ecological damage caused by this product.

13. Disposal Considerations

13.1. Waste treatment methods

Waste disposal recommendations

This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

14. Transport Information

14.1. Department of Transportation (DOT)

In accordance with DOT Not regulated for transport.

14.2. Additional information

Other information

No supplementary information available.

Special transport precautions

Do not handle until all safety precautions have been read and understood.

15. Regulatory Information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. State Regulations

MitoSpy™ Orange CMTMRos

State or local regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

Date of issue

12/07/2015

Other information

None.

This SDS was created in good faith based on our current knowledge at the time of creation and revision, but no warranty is made on the information, hazards, and toxicity data described. Prior to use, be sure to examine the latest information, rules, laws, and regulations of your country or region concerning hazards and harmful effects as well as regarding equipment to be used, and accord the highest priority to them.

The precautions described in this document assume normal handling of the product. When handling the product in an unconventional manner, be sure to take appropriate safety measures according to the situation and take sufficient precautions.

All chemical products should be handled assuming the presence of "unknown hazards and harmful effects" and with the knowledge that such hazards will vary greatly depending on the usage environment, handling method, and conditions and period of storage. All handling of the product, including use, unpacking, storage, and disposal, should be performed only by specialists with professional knowledge and experience or under close supervision of such qualified specialists. It is the sole responsibility of the user to ensure and provide proper safe use conditions.

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