



MATERIAL SAFETY DATA SHEET

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Kit
#H0300

SECTION 1 - PRODUCT INFORMATION

Product Name: Rapisome™ pWGA kit

SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENT

CHEMICAL NAMES

1. GLYCEROL (Glycerin):	CAS No.: 56-81-5	SARA313: NO	MF: C3H8O3	EC No.: 200-289-5
2. Dimethyl Sulfoxide (DMSO):	CAS No.: 67-68-5	SARA313: NO	MF: C2H6OS	EC No.: 200-664-3

SECTION 3 - HAZARDOUS IDENTIFICATION

Emergency Overview: Irritant. Irritating to eye, respiratory system and skin.

Target Organs: Kidneys

GLYCEROL		DMSO	
HMIS Rating	NFPA Rating	HMIS Rating	NFPA Rating
Health: 1	Health: 1	Health: 0*	Health: 0
Flammability: 0	Flammability: 0	Flammability: 2	Flammability: 2
Reactivity: 1	Reactivity: 1	Reactivity: 1	Reactivity: 1

SECTION 4 - FIRST AID MEASURES:

ORAL EXPOSURE: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

DERMAL EXPOSURE: In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Assure adequate flushing by separating the eyelids with fingers. Call a physician..

SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media: Suitable: Water spray. Carbon Dioxide, dry chemical powder or appropriate foam.

Special Firefighting Procedures: Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Flash point: N/A

Flammability: N/A

Autoignition Temp: N/A

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PROCEDURE(S) OF PERSONAL PRECAUTION(S): Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves and Chemical safety goggles.

METHODS FOR CLEANING UP: Cover with dry lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Avoid prolonged or repeated exposure.

User Exposure: Avoid inhalation. Avoid contact with DMSO solutions containing toxic materials or material with unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.

Avoid prolonged or repeated exposure.

Storage: Suitable: Store under inert gas. Keep tightly closed. Keep away from sparks and open flame. Store in a cool dry place.

SECTION 8 - EXPOSURE CONTROLS/PPE

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment: Government approved respirator

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

Skin: Specific Chemical resistant

General Hygiene Measures:

Wash thoroughly after handling.

Wash contaminated clothing before use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Physical State: Clear Liquid	Color: Colorless
Property	Value	At temperature or Pressure
pH:	N/A	
BP/BP Range:	N/A	
MP/MP Range:	N/A	
Freezing Point:	N/A	
Vapor Pressure:	N/A	
Vapor Density:	N/A	
Saturated Vapor:	N/A	
SG/Density:	N/A	
Bulk Density:	N/A	
Odor Threshold:	N/A	
Volatile %:	N/A	
Voc Content:	N/A	
Water Content:	N/A	
Solvent Content:	N/A	
Evaporation Rate:	N/A	
Viscosity:	N/A	
Surface Tension:	N/A	
Partition Coefficient:	N/A	
Decomposition Temp:	N/A	
Flash Point:	N/A	
Explosion Limits:	N/A	
Flammability:	N/A	
Autoignition Temp:	N/A	
Refraction Index:	N/A	
Optical Rotation:	N/A	
Miscellaneous Data:	N/A	
Sollubility in Water:	N/A	

N/A= Not Available

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable: Stable

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, sulfur dioxides.

Hazardous Polymerization: Hazardous Polymerization: Will not occur

Hazard

-roacetic acid. On mixing with potassium permanganate it will flash instantaneously. It reacts violently with: acid halides, cyanuric chloride, silicon tetrachloride, phosphorus trichloride and trioxide, thionyl chloride, magnesium perchlorate, silver fluoride, methyl bromide, iodine pentafluoride, nitro degrades giving off formaldehyde, methyl mercaptan and sulfur dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

Route of exposure: Skin contact: May cause skin irritation.

Skin absorption: May be harmful.

Eye contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Conditions aggravated by exposure: The toxicological properties have not been thoroughly investigated.

Target Organs: Kidneys

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

SECTION 12 - ECOLOGICAL INFORMATION

Data not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

SECTION 14 - TRANSPORT INFORMATION

DOT

Proper Shipping Name: None

Non-Hazardous for Air Transport: non-hazardous for air transport.

IATA

Non-Hazardous for Air Transport: non-hazardous for air transport.

SECTION 15 - REGULATORY INFORMATION

EU Additional Classification:

Symbol of Danger: Xi

Indication of Danger: Irritant

R: 36/37/38

S: 26-36

Risk of Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US Classification and Label Text

Indication of Danger: Irritant

Risk Statement: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

Target Organ (s): Kidneys

United States Regulatory Information:

Sara Listed: No

Canada Regulatory Information WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

SECTION 16 - OTHER INFORMATION

DISCLAIMER

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

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. BioHelix Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.