

Safety Data Sheet

Fluxergy Reaction Mix COVID-19



Version 3.0
Effective date: 2021-03-18

1. IDENTIFICATION	
1.1 Product identifier	
Product Trade Name	Fluxergy Reaction Mix COVID-19
Product Number	4156
Product form	Solution
1.2 Other means of identification	
Synonyms	None
1.3 Recommended use of the substance or mixture and restrictions on use	
Recommended Use	Professional Use Only
Uses advised against	No information available
1.4 Details of the supplier of the safety data sheet	
Fluxergy Inc 30 Fairbanks Suite 110, Irvine, CA 92618 Phone: (949) 305-4201 Email: customersupport@fluxergy.com	
1.5 Emergency telephone number	
(949) 305-4201	

2. HAZARDS IDENTIFICATION	
EU/EEC	
According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006	
2.1 Classification of substance or mixture	
The following SDS is for the final finished mixture product only as used in professional settings. The product contains beads and reagents in the mixture. Exemptions for disclosing some component information are pursuant to CLP Article 1(5)(d) and 29 CFR 1910.1200(g)(2)(i)(C)(1) & (2). Not classified.	
2.2 GHS Label elements including precautionary statements	
The product contains no substances which at their given concentration, are hazardous to health. No label element(s) required.	
Appearance Clear; Physical state Liquid; Odor Odorless	
Precautionary Statements - Prevention	
P280 Wear protective gloves/eye protection	
Precautionary Statements - Response	
P312 Call a Poison Center/doctor if you feel unwell	
Precautionary Statements - Storage	
P233 Keep container tightly closed	
Precautionary Statements - Disposal	
P501 Dispose of contents/container in accordance with national regulations	
Hazards not otherwise classified (HNOC)	
Not applicable	
Unknown Toxicity	
None known	
Other information	
According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.	
Interactions with Other Chemicals	

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None known
UN GHS (Labeling Content Used on Products)
According to UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
2.4 Classification of Substance or Mixture
Acute Toxicity Oral: 5
Skin Mild Irritation: 3
Eye Mild Irritation: 2B
2.5 Label Elements
UN GHS
WARNING
Hazard Statements Harmful if swallowed. May be harmful in contact with skin. Causes eye irritation
Precautional Statements Prevention: Wash hands thoroughly after handling Response: If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.
2.6 Other Hazards
UN GHS According to UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS) this product is considered hazardous.
United States (US) According to: OSHA 29 CFR 1910.1200 HCS
2.7 Classification of Substance or Mixture
OSHA HCS 2012: Eye Mild Irritation 2B
2.8 Label Elements
OSHA HCS 2012
Hazard Statements Harmful if swallowed. May be harmful in contact with skin. Causes eye irritation
Precautional Statements Prevention: Wash hands thoroughly after handling Response: If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell.
2.9 Other Hazards
OSHA HCS 2012 Under United States Regulations (29 CFR 1910/1200 – Hazard Communication Standard), this product is not considered hazardous.

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2.10 Other Information
All other reagents, beads, and other constituents are at concentrations less than 1% in the mixture or not considered hazardous under US hazard communication regulations (29 CFR 1910.1200), EU directives for classification and labeling of substances or mixtures or the Global Harmonization System for classification and labeling of substances or mixtures.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance (Main Ingredients)

Material does not meet the criteria of a substance

Chemical Name	REACH Numbers	CAS No:	Content Weight (%)
Tris-HCl	N/A	1185-53-1	3 to 7%
Glycerol	N/A	56-81-5	3 to 7%
Sucrose	N/A	57-50-1	7 to 12%

3.2 Proprietary Ingredient – Trade Secret

Not a hazardous ingredient at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Exemptions for disclosing some component information are pursuant to CLP Article 1(5)(d) and 29 CFR 1910.1200(g)(2)(i)(C)(1) & (2).

Product identifier
Mixture of chemicals
%
40-65

4. FIRST AID MEASURES

Description of first aid measures

General info

If any doubt or if symptoms persist, seek medical attention.

Eye contact

First aid is not expected to be necessary if material is used under ordinary conditions as recommended. Flush eyes with plenty of water for several minutes, also under the eyelids. If symptoms persist, call a physician. Do not rub your eyes.

Skin contact

First aid is not expected to be necessary if material is used under ordinary conditions as recommended. Wash with soap and running water for 20 minutes. If symptoms occur, consult a physical.

Inhalation

First aid is not expected to be necessary if material is used under ordinary conditions as recommended. Move affected person to fresh air. Get medical attention if any discomfort continues.

Ingestion

First aid is not expected to be necessary if material is used under ordinary conditions as recommended. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Obtain medical attention immediately if ingested

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 – Toxicological Information

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

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Treat symptomatically. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. If in contact with doctor, bring this safety data sheet with you.

5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

LARGE FIRES: Dry chemical, CO₂, alcohol-resistant foam, or water spray.

SMALL FIRES: Dry chemical, CO₂, or water spray.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

5.2 Specific hazards arising from the chemical

Unusual Fire and Explosion Hazards

Plastic cartridge containing reagents may emit toxic vapors of carbon oxides, sulfur oxides, nitrogen oxides

Hazardous Combustion Products

Carbon oxides.

Explosion Hazard

Product is not explosive, however nitrogen oxides, carbon monoxide, and carbon dioxide may be produced in the event of a fire

5.3 Protective equipment and precautions for firefighters

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Wear positive pressure self-contained breathing apparatus (SCBA).

SMALL FIRES: Move containers from fire area if you can do it without risk.

6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions

Avoid contact with eyes and skin. Wear appropriate personal protective equipment. Keep unauthorized and unprotected persons away. Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

6.2 Environmental precautions

Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Dispose mixture or substance and containers per local regulations. Prevent entry to waterways, sewers, basements, or confined areas.

6.3 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Wipe up with absorbent material. Larger spills are to be absorbed with sand or similar materials. Do not dispose spilled material down drain. Dispose per local regulations.

6.4 Reference to other sections:

See section 8 and 13 for further information

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7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions

Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water after handling material, leaving the laboratory, before eating, drinking, or smoking and when leaving work.

7.2 Conditions for safe storage, including any incompatibilities & Storage conditions

Storage conditions

Store at -20°C freezer, keep container tightly closed. Keep away from incompatible materials.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

Showers
Eyewash stations
Ventilation systems

Personal protective equipment

Gloves. Protective goggles. Laboratory Coat.

Hand protection

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier. Suggested glove materials are: Neoprene, Nitrile.

Eye/Face protection

Safety goggles should be worn when working with mixture. Avoid direct contact with eyes.

Skin and body protection

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Otherwise, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or symptoms are experienced.

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid, contains dissolved powder
Color	Clear viscous solution
Odor	Odorless
Odor Threshold	No data available
pH	3.3 to 8.8
Melting point	32°F / (0°C)
Freezing point	32°F / (0°C)
Boiling point	212°F/100°C

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Flash point	No data available
Relative evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapor pressure	Minimal
Relative vapor density at 20 °C	No data available
Relative density	=1 Water =1
Solubility in Water	Soluble 100%
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosive limits	No data available

10: STABILITY AND REACTIVITY

No additional physical or chemical parameters noted.

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3 Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4 Conditions to avoid

Avoid excess heat.

10.5 Incompatible materials

Strong oxidizing agents, reacts mildly with alkaline materials.

10.6. Hazardous decomposition products

Nitrogen oxides, carbon monoxide, and carbon dioxide.

11: TOXICOLOGY INFORMATION

11.1 Information on likely routes of exposure

GHS Properties	Classification
Acute toxicity	EU/CLP: Data lacking UN GHS: Acute Toxicity - Oral 5 OSHA HCS 2012: Data lacking
Skin corrosion/irritation	EU/CLP: Data lacking UN GHS: Skin Mild Irritation 3 OSHA HCS 2012: Data lacking
Serious eye damage/irritation	EU/CLP: Data lacking UN GHS: Eye Mild Irritation 2B OSHA HCS 2012: Eye Mild Irritation 2B
Respiratory or skin sensitization	EU/CLP: Data lacking UN GHS: Data lacking

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	OSHA HCS 2012: Data lacking
Germ cell mutagenicity	EU/CLP: Data lacking UN GHS: Data lacking OSHA HCS 2012: Data lacking
Carcinogenicity	EU/CLP: Data lacking UN GHS: Data lacking OSHA HCS 2012: Data lacking
Reproductive toxicity	EU/CLP: Data lacking UN GHS: Data lacking OSHA HCS 2012: Data lacking
Specific target organ toxicity (single exposure)	EU/CLP: Data lacking UN GHS: Data lacking OSHA HCS 2012: Data lacking
Specific target organ toxicity (repeated exposure)	EU/CLP: Data lacking UN GHS: Data lacking OSHA HCS 2012: Data lacking
Aspiration hazard	EU/CLP: Data lacking UN GHS: Data lacking OSHA HCS 2012: Data lacking
Symptoms/injuries after inhalation	May cause respiratory irritation.
Symptoms/injuries after skin contact	May cause skin irritation.
Symptoms/injuries after eye contact	Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	May cause gastrointestinal irritation.
Additional Information	Possible hazardous long-term degradation may occur. Degraded products are more toxic than the solution.

12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The environmental impact of this product has not been fully investigated.

12.2 Persistence and Degradability

No information available.

12.3 Bioaccumulation

No information available

12.4 Other adverse effects

No information available.

13: DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste.

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Contaminated Packaging

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Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

13.2 Other information

Biological specimens, transfer devices, and used cartridges should be considered capable of transmitting infectious agents requiring standard precautions. Follow your institution's environmental waste procedures for proper disposal of used cartridges and unused reagents. These materials may exhibit characteristics of chemical hazardous waste requiring specific national or regional disposal procedures. If national or regional regulations do not provide clear direction on proper disposal, biological specimens and used cartridges should be disposed per WHO (World Health Organization) medical waste handling and disposal guidelines.

14: TRANSPORT INFORMATION

14.1 DOT

NOT REGULATED, Not hazardous for transport

Additional information: No supplementary information available.

14.2 Transport by sea

No additional information available

14.3 Air transport

No additional information available

14.4 UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
DOT	Not Regulated	Not Regulated	Not Regulated	Not Regulated
TDG	Not Regulated	Not Regulated	Not Regulated	Not Regulated
IMO/IMDG	Not Regulated	Not Regulated	Not Regulated	Not Regulated
IATA/ICAO	Not Regulated	Not Regulated	Not Regulated	Not Regulated

14.5 Special Precautions for User

None specified.

14.6 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

15: REGULATORY INFORMATION

15.1 US Federal Regulations

OSHA Hazards

No OSHA Hazards.

CERCLA Reportable Quantity

This product does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This product does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

No SARA Hazards

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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15.2 United States - California
California Proposition 65
This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm
This mixture not listed on the following:
U.S. - Massachusetts - Right to Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
15.3 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out.

16: OTHER INFORMATION
16.1 NFPA health hazard
2 – Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury.
NFPA fire hazard
1 – Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur.
NFPA reactivity
0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
16.2 HMIS III Rating
Health: 2
Flammability: 1
Physical Hazard: 0
Personal Protection: X

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties, protections, and disposal which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.