SAFETY DATA SHEET



Order Number

Synonym

Customer Number

Identification of the substance/preparation and of the company/undertaking

Product name : Clonables[™] 2X Ligation Premix

Not available.

Catalog #

70573

Supplier

Manufactured by EMD Biosciences, Inc.

441 Charmany Drive Madison, WI 53719 (608)238-6110 (800)207-0144 FAX: (608)238-1388

P.O. Box 12087

La Jolla, CA 92039-2087

(858)450-5558 (800)854-3417 FAX: (858)453-3552

Emergency telephone number

Call Chemtrec®

(800)424-9300 (within U.S.A.) (703)527-3887 (outside U.S.A.)

2. Composition / information on ingredients

Substance/Preparation

Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
1) Clonables™ 2X Ligation Premix		Not available.	Xi	R36/38

3. Hazards identification

Physical/chemical hazards

: Not applicable.

Human health hazards

: CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.

4. First-aid measures

First-Aid measures

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact

: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact

: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Effects and symptoms

Skin Contact

: Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye Contact

: Hazardous in case of eye contact (irritant).

Aggravating conditions

: Repeated or prolonged exposure is not known to aggravate medical condition.

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5. Fire-fighting measures

Flammability of the Product

Extinguishing Media

: May be combustible at high temperature.

Suitable

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special fire-fighting procedures

Protection of fire-fighters

: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

: Be sure to use an approved/certified respirator or equivalent.

Accidental release measures 6.

Personal precautions Small Spill and Leak : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Absorb with an inert material and put the spilled material in an appropriate waste dispose

Large Spill and Leak

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and storage

Handling

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above -70°C (-94°F).

Packaging materials

Recommended use : Use original container.

Exposure controls/personal protection

Engineering measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures

Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name

Occupational Exposure Limits

Not available.

Personal protective equipment

1) Clonables™ 2X Ligation Premix

Skin and body Lab coat. **Hands** Gloves.

Eyes Splash goggles.

Protective Clothing (Pictograms)







Physical and chemical properties

Physical state

Liquid.

Color

Not available.

Molecular Weight

Not available.

Solubility Flash point Not available. Not available.

Explosive properties

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

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10. Stability and reactivity

Stability : The product is stable.

Conditions to avoid : Not available.

11. Toxicological information

RTECS # : Not available.

Local effects

Skin irritation : Hazardous in case of skin contact (irritant).

Acute toxicity : LD50: Not available.

LC50: Not available.

Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on

Humans

: Not available.

Hazardous in case of skin contact (irritant).

Not available.

To the best of our knowledge, the toxicological properties of this product have not been thoroughly

investigated.

Carcinogenic effects: Not available.Mutagenic effects: Not available.Reproduction toxicity: Not available.Teratogenic effects: Not available.

12. Ecological information

Ecotoxicity : Not available.

Toxicity of the Products of Biodegradation

: Not available.

Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

Land - Road/Railway

ADR/RID Class : Not controlled under ADR (Europe).

<u>Sea</u>

IMDG Class : Not controlled under IMDG.

<u>Air</u>

IATA-DGR Class : Not controlled under IATA.

Special Provisions for

Transport

Not applicable.

15. Regulatory information

EU Regulations

Hazard symbol(s)



Classification : Irritan

Risk Phrases : R36/38- Irritating to eyes and skin.

Safety Phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

U.S. Federal Regulations : TSCA: No products were found.

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SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.

HCS Classification : CLASS: Irritating substance.

State Regulations :

WHMIS (Canada) : Not controlled under WHMIS (Canada).

No products were found.

16. Other information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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