



Material Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

 www.rojetechnologies.co

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SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier :

Substance name : M-MLV Reverse Transcriptase Buffer, 5X

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended restrictions on use : For professional users only and Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier : ROJETechnologies

Street address / P.O. Box : ROJE street, 69th alley, Foroudgah blvd, Sanaat square, 8917357485, Yazd,
Iran

Country ID / Postcode / Place : Iran

Telephone number : +98 35 3723 7122

TeleFax : +98 35 3723 7122

E-Mail : safety@rojetechnologies.co

National contact: ROJETechnologies

1.4 Emergency Telephone Number

Opening Hours: 8-15 Sa to Wed and 8-13:00 Thurs

Language Of The Phone Service: English/ Persian

Only Available During Office Hours.

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 classification according to regulation (EC) No 1272/2008 (CLP)

Not Hazardous

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

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Hazard pictograms:



Signal word: Warning

Hazard statements: H316 Causes mild skin irritation , May cause respiratory irritation.

Precautionary Statements: Prevention:
 P280 Wear protective gloves/ protective clothing/ eye protection/
 face protection

Precautionary statements:

P332 + P313 If skin irritation occurs: Get medical advice/attention

2.1.2 Carcinogenicity:

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

2.3 Other hazards

eyes	Irritating to eyes.
Skin	Irritating to skin.

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inhalation

Irritating to respiratory system.

Ingestion

May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

2.4 Specific effects

Carcinogenic effects None.

Mutagenic effects None.

Reproductive toxicity None.

Sensitization None.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

Substances name: No data available
 INDEX No.: No data available
 EC NO.: No data available
 REACH No.: No data available
 CAS No.: No data available
 Purity: No data available
 Synonymes: No data available
 Stabilisers: No data available
 Hazard impurities: No data available

3.2 Mixtures

Description of the mixture: No data available

Hazardous ingredients

Chemical Name	CAS-No.	Weight %
(DTT) 2,3-Butanediol, 1,4-dimercapto-, (theta, theta)- 3483-12-3 (0.5-1.5)	3483-12-3	0.5-1.5

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Ingestion	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.
Most important symptoms and effects, both acute and delayed	
H316 - Causes mild skin irritation	
Notes to Physician	Treat symptomatically.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
Specific hazards arising from the chemical	Not known
Hazardous combustion products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Carbon oxides. Nitrogen oxides (NOx) None
Specific extinguishing	In the event of fire and/or explosion do not breathe fumes



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SECTION 6: *Accidental Release Measures*

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

6.3 Methods and materials for containment and cleaning up

6.3.1 For cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7: *Handling and Storage*

7.1 Precautions for safe handling

Advice on safe handling:

Always wear recommended Personal Protective Equipment.
No special handling advices are necessary.
Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure-obtain special instructions before use.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

7.3 Advice on protection against fire and explosion: Normal measures for preventive fire protection and explosion.

7.4 Recommended storage temperature -20 C⁰



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SECTION 8: *Exposure Controls/Personal Protection*

8.1 Control parameters Prevent product from entering drains. Do not allow material to contaminate ground water system.

8.2 Personal protection equipment :

Eye and face protection : Wear safety glasses with side shields (or goggles).

Skin protection : Lightweight protective clothing.

Hand protection : Impervious gloves.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: **Physical and Chemical Properties**

9.1 Information on basic physical and chemical properties:

a) Appearance:	liquid
b) Odour:	Colorless
c) Odour threshold:	No data available
d) pH:	8.3
e) Melting point / freezing point:	No data available
f) Initial boiling point and boiling range:	No data available
g) Flash point:	No data available
h) Evaporation rate:	No data available
j) Upper / lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Solubility(ies)	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available



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q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) oxidizing properties	No data available

9.2 Other information

SECTION 10: Stability and Reactivity

10.1 Reactivity:

No decomposition if stored and applied as directed.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Hazardous reaction has not been reported.
Stable under recommended storage conditions
Hazardous decomposition products formed under fire conditions.
Keep away from oxidizing agents, and acidic or alkaline products.

10.4 Conditions to avoid:

No data available

10.5 Incompatible materials:

No data available

10.6 Hazardous decomposition products:

directed

No decomposition if stored and applied as

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

eyes Irritating to eyes.

Skin Irritating to skin.



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Inhalation Irritating to respiratory system.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Carcinogenic effects None.

Mutagenic effects None.

Reproductive toxicity None.

Sensitization None.

Target Organ Effects None under normal use conditions

SECTION 12: Ecological Information

12.1 Toxicity

Acute (short-term) toxicity

Fish: No data available

Crustatacea: No data available

Algae/aquatic plants: No data available

Other organisms: No data available

Chronic (long-term) toxicity

Fish: No data available

Crustatacea: No data available

Algae/aquatic plants: No data available

Other organisms: No data available

Ingredients: No data available

maleic acid : No data available

Toxicity to fish : No data available

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Toxicity to daphnia and other aquatic

invertebrates : No data available

Toxicity to algae : No data available

12.2 Persistence and degradability

Abiotic Degradation: No data available

Physical- and photo-chemical elimination

Biodegradation: No data available

12.3 Bioaccumulative potential

Partition coefficient No data available

n-octanol/water (log kow): No data available

Bioconcentration factor (BCF): No data available

12.4 Mobility in soil

Known or predicted distribution to environmental compartments: No data available

Surface tension: No data available

Adsorption/Desorption: No data available

12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects No data available

12.7 Additional information No data available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Disposal methods Waste from residues : Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national regulations.

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Contaminated packaging : Dispose of as unused product. Do not re-use empty
containers.

SECTION 14: Transport Information

IATA

- | | |
|------------------------------------|---|
| 14.1. Proper Shipping Name | No dangerous good in sense of these transport regulations |
| 14.2. Hazard Class | None |
| 14.3. Subsidiary class | None |
| 14.4. Packing group | None |
| 14.5. UN-No | None |
| 14.6. Environmental hazards | None |
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code”** No data available

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Authorisations and/or restrictions on use: Laboratory chemicals

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 313: This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous

Air Pollutants (HAPs) (see 40 CFR 61) This product does not contains HAPs.

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

15.2 Chemical safety Assessment

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other Information

- (i) Indication of changes: No information available.
- (ii) Abbreviations and acronyms: No information available.
- (iii) Key literature references and sources for data: No information available.
- (iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: No information available.
- (v) Relevant H-statements (number and full text): No information available.
- (vi) Training advice: No information available.
- (vii) Further information:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.