

**1 Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Number MB601  
Product Name RNA-XPress™ Reagent  
REACH Registration Number Reach registration number is not available for this mixture. The annual tonnage does not require a REACH registration or it is envisaged for a later registration deadline.

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

**1.2.1** Relevant identified uses Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

Produced by HiMedia Laboratories Private Limited  
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Tel. No. +91-22-2500 0970, +91-22-2500 1607 Fax No. : +91-22-25002468  
Mail Id [mb@himedialabs.com](mailto:mb@himedialabs.com) Website : [www.himedialabs.com](http://www.himedialabs.com)

**1.4 Emergency Tel. No.**

Emergency Tel. No. Please contact the regional HiMedia representation in your country

**2 Hazards Identification****2.1 Classification of the substance or mixture**

**CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Acute toxicity, Oral, (Category 3), H301  
Acute toxicity, Oral, (Category 4), H302  
Acute toxicity, Dermal, (Category 3), H311  
Acute toxicity, Dermal, (Category 4), H312  
Skin corrosion or irritation, (Category 1B), H314  
Acute toxicity, Inhaled, (Category 1), H330  
Acute toxicity, Inhaled, (Category 4), H332  
Germ cell mutagenicity, (Category 2), H341  
Specific target organ toxicity, repeated exposure, (Category 2), H373  
Hazardous to the aquatic environment, acute hazard, (Category 3), H402  
For the full text of the H-Statements mentioned in this Section, See Section 16

**2.2 Label elements**

**Labeling according to Regulation (EC) No.1272/2008**



Pictogram

Signal word Danger

Hazard Statement(s)

H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H330	Fatal if inhaled
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life

Precautionary Statement(s)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + 310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P264	Wash hands thoroughly after handling. Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.

### 2.3 Other Hazards

None

## 3 Composition/Information On Ingredients

### 3.2 Mixture

Component		Classification	Concentration
Phenol solution (Equilibrated with 10mM Tris HCl pH 8.0 with 1mM EDTA), For Molecular Biology			
CAS No. :	108-95-2	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral. 3; Acute Tox. dermal. 3; Skin Corr. 1A; Acute Tox.inhal.1, 2; Muta. 2; STOT RE 2 H301; H311; H314; H330; H341; H373	>=50 - <=70%
EC No. :	203-632-7		
Index-No :	604-001-00-2		
Molecular Formula :	C <sub>6</sub> H <sub>6</sub> O		
Molecular Weight :	94.11		

Component	Classification	Concentration
Guanidine thiocyanate, For Molecular Biology		
CAS No. : 593-84-0	<b>As Per EC Regulation 1272/2008</b> Acute Tox. Oral, dermal, inhal, 4; Skin Corr. 1A; Aquatic Chronic 3 H302+H312+H332; H314; H412	>=30 - <=50%
EC No. : 209-812-1		
Molecular Formula : CH <sub>5</sub> N <sub>3</sub> .CHNS		
Molecular Weight : 118.16		

## 4 First Aid Measures

### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash with plenty of soap and water. Consult a physician.

#### **In case of eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

## 5 Fire Fighting Measures

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Use water spray, alcohol- resistant foam, dry chemical or carbon dioxide

#### **Unsuitable extinguishing media**

No data available.

### 5.2 Special hazards arising from the substance or mixture

No data available.

### 5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

### 5.4 Further information

No data available

## 6 Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Wear disposable gloves, dust mask and eye protection.

## **6.2 Environmental precautions**

No special environmental precautions required.

## **6.3 Methods and materials for containment and cleaning up**

Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean up affected area. Flush spill area with water.

## **6.4 Reference to other sections**

For disposal see Section 13.

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# **7 Handling and Storage**

## **7.1 Precautions for safe handling**

For precautions see section 2.2.

## **7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended Storage Temperature :** Store between 15-25°C

## **7.3 Specific end uses**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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# **8 Exposure Controls/Personal Protection**

## **8.1 Control parameters**

Components with workplace control parameters

## **8.2 Exposure controls**

### ***Appropriate engineering controls***

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

### ***Personal protective equipment***

#### ***Hygiene measure***

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

#### ***Eye/face protection***

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### ***Skin protection***

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### ***Body protection***

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### ***Respiratory protection***

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air

respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environment exposure controls**

No special environmental precautions required.

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**9 Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Upper/lower flammability or explosive limits	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Vapour density	No data available
Thermal decomposition	No data available

**9.2 Other safety information**

No data available

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**10 Stability and Reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

Other Decomposition products. No Data Available

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**11 Toxicological Information**

**11.1 Information on toxicological effects**

**Acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity- single exposure**

No data available

**Aspiration hazard**

No data available

**Potential Health Effects****Inhalation**

REFER SECTION 2

**Skin**

REFER SECTION 2

**Eyes**

REFER SECTION 2

**Ingestion**

REFER SECTION 2

**Additional Information**

RTECS : Not applicable

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**12 Ecological Information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

No data available

### 13 Disposal Considerations

#### 13.1 Waste treatments methods

##### Product

Offer surplus and non- recyclable solutions to a licenced company.

#### 13.2 Contaminated packaging

Dispose of as unused product.

### 14 Transport Information

#### 14.1 UN-No

ADNR : 2821 ADR : 2821 IATA\_C : 2821 IATA\_P : 2821 IMDG : 2821 RID : 2821

#### 14.2 UN proper shipping name

ADNR : Phenol solutions

ADR : Phenol solutions

IATA\_C : Phenol solutions

IATA\_P : Phenol solutions

IMDG : Phenol solutions

RID : Phenol solutions

#### 14.3 Transport hazard class(es)

ADNR : 6.1 ADR : 6.1 IATA\_C : 6.1 IATA\_P : 6.1 IMDG : 6.1 RID : 6.1

#### 14.4 Packaging group

ADNR : III ADR : III IATA\_C : III IATA\_P : III IMDG : III RID : III

#### 14.5 Environmental hazards

ADNR : No ADR : No IMDG : Marine Pollutant : No IATA\_C : No IATA\_P : No RID : No

#### 14.6 Special precautions for use

No data available

### 15 Regulatory Information

#### 15.1 Safety health and environment regulations/legislation specific for the substance or mixture

No data available

#### 15.2 Chemical Safety Assessment

No data available

### 16 Other information

H301	Toxic if swallowed
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

Acute Tox. dermal. 3	Acute toxicity, dermal, Category 3
Acute Tox. Oral, dermal, inhal, 4	Harmful if swallowed, in contact with skin or if inhaled
Acute Tox.inhal.1, 2	Acute toxicity, inhaled, Category 1, 2
Acute Tox.oral. 3	Acute toxicity, oral, Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment, long term hazard, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1A	Skin corrosion or irritation, Category 1A
STOT RE 2	Specific target organ toxicity, repeated exposure, Category 2

### Further Information

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.