1. **IDENTIFICATION OF THE SUBSTANCE /COMPANY DETAILS**

   **Product Name:** AMV Reverse Transcriptase

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0070</td>
<td>300 U</td>
</tr>
<tr>
<td>P0071</td>
<td>1,000 U</td>
</tr>
<tr>
<td>P0071-CS</td>
<td>1,000 U</td>
</tr>
</tbody>
</table>

Product Information: For research use only, not for human or veterinary use.

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Emergency Telephone No.:
900-868538 (CHEMTREC Spain)
+(34)-931768545 (CHEMTREC international)

2. **COMPOSITION / INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>50.0</td>
</tr>
<tr>
<td>AMV Reverse Transcriptase</td>
<td>NA</td>
<td>49.6</td>
</tr>
</tbody>
</table>

3. **HAZARDS IDENTIFICATION**

**Classification of the substance or mixture:** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Specific target organ toxicity (single exposure) \textit{Category 3}
Target Organs - Respiratory system.
Specific target organ toxicity - (repeated exposure) \textit{Category 2}
Target Organs - Kidney.

\textbf{Label elements:}

\textbf{Signal Word:}
Warning.

\textbf{Hazard Statements:}
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

\textbf{Precautionary Statements}

\textbf{Prevention:}
Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.

\textbf{Response:}
Get medical attention/advice if you feel unwell.

\textbf{Inhalation:}
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

\textbf{Storage:}
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

\textbf{Disposal:}
Dispose of contents/container to an approved waste disposal plant.

\textbf{Other hazards:} None identified.

\textbf{4. FIRST – AID MEASURES}

\textbf{Inhalation:} Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

\textbf{Skin Contact:} Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

\textbf{Eye Contact:} Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
5. FIRE FIGHTING MEASURES

**Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Fire Fighting Protective Equipment:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Hazardous Combustion Products:** Carbon monoxide (CO) Carbon dioxide (CO₂).

**Specific Hazards:** Keep product and empty container away from heat and sources of ignition.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Ensure adequate ventilation. Use personal protective equipment.

**Environmental precautions:** Should not be released into the environment. See Section 12 for additional ecological information.

**Method for cleaning up:** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

**Handling:** Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

**Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatura not exceeding -20°C.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Exposure Guidelines:**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>Mexico OEL (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>-</td>
<td>(Vacated) TWA: 10 mg/m³</td>
<td>-</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Vacated) TWA: 5 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 15 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 5 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Engineering measures:** None under normal use conditions.

**Respirators:** No protective equipment is needed under normal use conditions.
**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

**Personal protective equipment:**
- **Gloves:** Yes
- **Safety glasses:** Yes

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form:** Liquid
- **Appearance:** Colorless
- **Odour:** No data available
- **PH (Value):** No data available
- **Boiling Point:** No data available
- **Melting Point:** No data available
- **Flash Point:** No data available
- **Flammable Limits:** No data available
- **Auto Ignition Temperature:** No data available
- **Explosive Properties:** No data available
- **Oxidising Properties:** No data available
- **Density (g/ml):** No data available
- **Solubility (Other):** No data available
- **Partition Coefficient:** Not available

### 10. STABILITY AND REACTIVITY

- **Reactive Hazard:** None known, based on information available.
- **Hazardous Reactions:** None under normal processing.
- **Hazardous Decomposition Product(s):** Carbon monoxide (CO), Carbon dioxide (CO₂).
- **Hazardous Polymerization:** Hazardous polymerization does not occur.
- **Conditions to avoid:** Incompatible products. Excess heat.
- **Chemical stability:** Stable under recommended storage conditions.
- **Materials to avoid:** Strong oxidizing agents.

### 11. TOXICOLOGY INFORMATION

- **Acute toxicity:**
  - **Inhalation (LC50):** Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.
  - **Skin Contact (Dermal – LD50):** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
  - **Eye Contact:** Not Available
**Material Safety Data Sheet**

**Ingestion (Oral – LD50):** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>12600 mg/kg (Rat)</td>
<td>&gt; 10 g/kg (Rabbit)</td>
<td>&gt; 2.75 mg/L/4h (Rat) (mist)</td>
</tr>
</tbody>
</table>

**Delayed and immediate effects as well as chronic effects from short and long-term exposure:**

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>AMV Reverse Transcriptase</td>
<td>NA</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**Teratogenicity:** No information available.
**STOT - single exposure:** Respiratory system.
**STOT - repeated exposure:** Kidney.

12. **ECOLOGICAL INFORMATION**

**Environmental Hazards:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Not listed</td>
<td>LC50: 51 - 57 mL/L, 96h Static (Oncorhynchus mykiss)</td>
<td>Not listed</td>
<td>EC50: &gt; 500 mg/L, 24h (Daphnia magna)</td>
</tr>
</tbody>
</table>

**Persistence and Degradation:** Not Available
**Toxicity:** Not Available
**Effect on Effluent Treatment:** Not Available
**Mobility:**

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>-1.76</td>
</tr>
</tbody>
</table>

13. **DISPOSAL CONSIDERATIONS**
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### 14. TRANSPORT INFORMATION

**DOT:**
- **UN-No:** UN1845
- **Proper Shipping Name:** CARBON DIOXIDE, SOLID
- **Hazard Class:** 9
- **Packing Group:** III

**TDG:**
- **UN-No:** UN1845
- **Proper Shipping Name:** CARBON DIOXIDE, SOLID
- **Hazard Class:** 9
- **Packing Group:** III

**IATA:** Not regulated

**IMDG/IMO:** Not regulated

### 15. REGULATORY INFORMATION

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

**Relevant provisions of the European Union (EU)**
- Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) **Not listed.**
- Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS) **Not listed.**
- Regulation 850/2004/EC on persistent organic pollutants (POP) **Not listed.**
- Restrictions according to REACH, Annex XVII: **Not listed.**
- List of substances subject to authorization (REACH, Annex XIV): **Not listed.**
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II: **Not listed.**
- Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): **Not listed.**
- Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD): **Not listed.**

**National inventories**

Substance is listed in the following national inventories:
- EINECS/ELINCS/NLP (Europe)

### 16. OTHER INFORMATION
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.