

Revision date 06-May-2023

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

Version 9

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product No	M0277
Product name	AMV Reverse Transcriptase
Pure substance/mixture	Mixture
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
Recommended use	This product is for research and development only
Uses advised against	No information available
1.3. Details of the supplier of the sat	fety data sheet
<u>Supplier Address</u> New England BioLabs 240 County Road Ipswich, MA 01938 USA	
For further information, please contact	
Company Phone Number	978-927-5054, 800-632-5227 (toll free)
Telefax	978-921-1350
E-mail address	info@neb.com
1.4. Emergency telephone number	-
24 Hour Emergency Phone Number	Chemtrec +44 20 3885 0382
Europe	+1 978-380-2125

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] EUH210 - Safety data sheet available on request

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

No information available.

#### **Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1)	EU - REACH (1907/2006) - Endocrine
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
Triton X-100	Endocrine disrupting properties	-

Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Triton X-100	Endocrine disrupting properties

# SECTION 3: Composition/information on ingredients

# 3.1 SubstancesNot applicable3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)		Specific concentratio n limit (SCL)	r	M-Factor (long-ter m)
Triton X-100 9002-93-1	0.1 - 1	No data available	-	No data available	-	-	-

#### Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapor - mg/L	
			mg/L		• • • •
Triton X-100	1800	No data available	No data available	No data available	No data available
9002-93-1	1700				

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No	SVHC candidates
Triton X-100	9002-93-1	Х

# SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.
4.2. Most important symptoms and Symptoms Effects of Exposure	effects, both acute and delayed No information available. No information available.

4.3. Indication of any immediate medical attention and special treatment neededNote to physiciansTreat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
5.2. Special hazards arising from th	e substance or mixture
Specific hazards arising from the chemical	No information available.
5.3. Advice for firefighters	

Special protective equipment and<br/>precautions for fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout gear.<br/>Use personal protection equipment.

# SECTION 6: Accidental release measures

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

Personal precautions Ensure adequate ventilation.

For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	See Section 12 for additional Ecological Information.
6.3. Methods and material for conta	ainment and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4. Reference to other sections	
Reference to other sections	See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

7.1. Precautions for safe handling			
Advice on safe handling	Ensure adequate ventilation.		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.		
7.2. Conditions for safe storage, inc	luding any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.		
Storage class (TRGS 510)	Storage class 10.		
7.3. Specific end use(s)			
Risk management methods [RMM]	The information required is contained in this Safety Data Sheet.		

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

## Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Glycerol 56-81-5	-	-	56 mg/m³ [5] [6]
Potassium Phosphate 7758-11-4	-	-	19.1 mg/m³ [4] [6]

Notes	
[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.

## Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Glycerol 56-81-5	229 mg/kg bw/day [4] [6]	-	33 mg/m³ [5] [6]
Potassium Phosphate 7758-11-4	-	-	8.17 mg/m <sup>3</sup> [4] [6]

Notes

Systemic health effects.
Local health effects.
Long term.

## Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Glycerol 56-81-5	0.885 mg/L	8.85 mg/L	0.0885 mg/L	-	-

Chemical name	Freshwater	Marine sediment	Sewage treatment	Soil	Food chain
	sediment				
Glycerol	3.3 mg/kg sediment	0.33 mg/kg	1000 mg/L	0.141 mg/kg soil dw	-
56-81-5	dw	sediment dw			

## 8.2. Exposure controls

Engineering controls	No information available.
Individual protection measures, such as personal protective equipment Eye/face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
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.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

# **SECTION 9: Physical and chemical properties**

**Physical state** 

9.1. Information on basic physical and chemical properties

Liquid

Appearance	Colorless	
Color	No information available	
Odor	Mild.	
Odor threshold	No information available	
Property_	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling rang	<b>je</b> No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Flash point	No data available	None known
Autoignition temperature	392.78 °C	
Decomposition temperature		None known
рН	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Vapor density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity

No information available.

10.2. Chemical stability

Stability

Stable under normal conditions.

Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of exposure

**Product Information** 

vmptoms related to the physical, chemical and toxicological characteristics		
Ingestion	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Inhalation	Specific test data for the substance or mixture is not available.	

None known based on information supplied.

Symptoms related to the physical,

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	25,200.00	mg/kg
ATEmix (dermal)	20,000.00	mg/kg
ATEmix (inhalation-gas)	99,999.00	ppm
ATEmix (inhalation-vapor)	99,999.00	mg/l
ATEmix (inhalation-dust/mist)	99,999.00	mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triton X-100	= 1800 mg/kg (Rat)	-	-
	= 1700 mg/kg (Rat)		

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
11.2. Information on other hazard	<u>S</u>
11.2.1. Endocrine disrupting prop	erties
Endocrine disrupting properties	No information available.
11.2.2. Other information	
Other adverse effects	No information available.
Other adverse effects	
Other adverse effects SECTION 12: Ecological in	
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity	
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity	Contains 0 % of components with unknown hazards to the aquatic environment.
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity Unknown aquatic toxicity 12.2. Persistence and degradability	Contains 0 % of components with unknown hazards to the aquatic environment.
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity Unknown aquatic toxicity 12.2. Persistence and degradability Persistence and degradability	Contains 0 % of components with unknown hazards to the aquatic environment.
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity Unknown aquatic toxicity 12.2. Persistence and degradability Persistence and degradability 12.3. Bioaccumulative potential	Contains 0 % of components with unknown hazards to the aquatic environment.
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity Unknown aquatic toxicity 12.2. Persistence and degradability Persistence and degradability 12.3. Bioaccumulative potential Bioaccumulation	Contains 0 % of components with unknown hazards to the aquatic environment.
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity Unknown aquatic toxicity 12.2. Persistence and degradability Persistence and degradability 12.3. Bioaccumulative potential Bioaccumulation 12.4. Mobility in soil	And the second s
Other adverse effects SECTION 12: Ecological in 12.1. Toxicity Ecotoxicity Unknown aquatic toxicity 12.2. Persistence and degradability 12.3. Bioaccumulative potential Bioaccumulation 12.4. Mobility in soil Mobility in soil	And the second s

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# **SECTION 14: Transport information**

ΙΑΤΑ	_	
14.1	UN number or ID number	Not regulated
14.2	Extended Proper Shipping	Not regulated
Name	9	
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
IMDG	<u>i</u>	
14.1	UN number or ID number	Not regulated
14.2	Extended Proper Shipping	Not regulated
Name	9	
	Transport hazard class(es)	Not regulated
	Packing group	Not regulated
	Environmental hazard	Not applicable
446	Special propositions for user	
	Special precautions for user	
S	pecial Provisions	None
S 14.7	pecial Provisions Maritime transport in bulk	None No information available
S 14.7	pecial Provisions	
S 14.7 acco	pecial Provisions Maritime transport in bulk	
S 14.7 acco <u>RID</u>	pecial Provisions Maritime transport in bulk rding to IMO instruments	No information available
S 14.7 acco <u>RID</u> 14.1	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No	No information available Not regulated
S 14.7 acco <u>RID</u> 14.1 14.2	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping	No information available
S 14.7 acco <u>RID</u> 14.1 14.2 Name	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping	No information available Not regulated Not regulated
S 14.7 acco <u>RID</u> 14.1 14.2 Name 14.3	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping e Transport hazard class(es)	No information available Not regulated Not regulated Not regulated
S 14.7 acco <u>RID</u> 14.1 14.2 Namo 14.3 14.4	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping e Transport hazard class(es) Packing group	No information available Not regulated Not regulated Not regulated Not regulated
S 14.7 acco <u>RID</u> 14.1 14.2 Name 14.3 14.4 14.5	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard	No information available Not regulated Not regulated Not regulated
S 14.7 acco <u>RID</u> 14.1 14.2 Namo 14.3 14.4 14.5 14.6	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard Special precautions for user	No information available Not regulated Not regulated Not regulated Not regulated Not applicable
S 14.7 acco <u>RID</u> 14.1 14.2 Namo 14.3 14.4 14.5 14.6	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard	No information available Not regulated Not regulated Not regulated Not regulated
S 14.7 acco <u>RID</u> 14.1 14.2 Namo 14.3 14.4 14.5 14.6 S	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard Special precautions for user pecial Provisions	No information available Not regulated Not regulated Not regulated Not regulated Not applicable
S 14.7 acco RID 14.1 14.2 Namo 14.3 14.4 14.5 14.6 S ADR	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard Special precautions for user pecial Provisions	No information available Not regulated Not regulated Not regulated Not regulated Not applicable None
S 14.7 acco <u>RID</u> 14.1 14.2 Namo 14.3 14.4 14.5 14.6 S	pecial Provisions Maritime transport in bulk rding to IMO instruments UN/ID No Extended Proper Shipping Transport hazard class(es) Packing group Environmental hazard Special precautions for user pecial Provisions	No information available Not regulated Not regulated Not regulated Not regulated Not applicable

14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazard	Not applicable
14.6	Special precautions for user	
Special Provisions		None

# SECTION 15: Regulatory information

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Triton X-100 - 9002-93-1	-	42.

### **Persistent Organic Pollutants**

Not applicable Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIOC	Contact supplier for inventory compliance status

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**NZIOC** - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

# **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL Ceiling Maximum limit value Skin designation Sensitizers + Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC) European Chemicals Agency (ECHA) (ECHA API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization Environmental, Health and Safety Prepared by

Revision note	SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.
Revision date	06-May-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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**End of Safety Data Sheet**