

# 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

Revision date 06-May-2023 Version 9

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

1.1. Product identifier

Product No M0482

Product name OneTaq® 2X Master Mix with Standard Buffer

Pure substance/mixture Mixture

1.2. Relevant identified uses of the 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 safety data sheet

Supplier Address
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
Igepal CA-630	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)
Igepal CA-630	Endocrine disrupting properties

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical	Weight-%	REACH registration	EC No (EU Index	Classification according to	Specific	M-Facto	M-Factor
name		number	No)	Regulation (EC) No.	concentratio	r	(long-ter
				1272/2008 [CLP]	n limit (SCL)		m)
Ammonium	0.1 - 1	No data available	(017-014-00-8)	Acute Tox. 4 (H302)	-	-	-
Chloride			235-186-4	Eye Irrit. 2 (H319)			
12125-02-9							
Igepal	0.1 - 1	No data available	-	No data available	-	-	-
CA-630							
9002-93-1							

### 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	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist -	hour - vapor - mg/L	hour - gas - ppm
			mg/L		
Ammonium Chloride	1650	2000	No data available	No data available	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapor - mg/L	
12125-02-9					
Igepal CA-630	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

/		
Chemical name	CAS No	SVHC candidates
Igepal CA-630	9002-93-1	X

## **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 effects, both acute and delayed

**Symptoms** No information available.

**Effects of Exposure** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

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 the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation.

6.2. Environmental precautions

**Environmental precautions**See Section 12 for additional Ecological Information.

6.3. Methods and material for containment 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.

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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, including 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** 

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ammonium Chloride	-	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10.0 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
12125-02-9			STEL: 20 mg/m <sup>3</sup>		STEL: 20 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ammonium Chloride	-	TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	-
12125-02-9		Ceiling: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup>		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary

TWA: 10 mg/m<sup>3</sup>

Ireland

TWA: 10 mg/m<sup>3</sup>

STEL: 20 mg/m<sup>3</sup>

Luxembourg

Portugal

TWA: 10 mg/m<sup>3</sup>

STEL: 20 mg/m<sup>3</sup>

Sweden

-	•	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	•
Italy MDLPS	Italy AIDII	Latvia	Lithuania
-	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Malta	Netherlands	Norway	Poland
-	-	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Romania	Slovakia	Slovenia	Spain
TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	-	-	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>

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United Kingdom

TWA: 10 mg/m<sup>3</sup>

STEL: 20 mg/m<sup>3</sup>

**Biological occupational exposure** limits

Ammonium Chloride

Ammonium Chloride

Chemical name

Ammonium Chloride 12125-02-9 Chemical name

Ammonium Chloride

12125-02-9

Chemical name

Ammonium Chloride

12125-02-9

12125-02-9

12125-02-9 Chemical name

> This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Switzerland

TWA: 3 mg/m<sup>3</sup>

### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Glycerol	-	-	56 mg/m³ [5] [6]
56-81-5			
Tris-HCI	-	216.6 mg/kg bw/day [4] [6]	152.8 mg/m³ [4] [6]
1185-53-1			
Potassium Chloride	-	303 mg/kg bw/day [4] [6]	1064 mg/m³ [4] [6]
7447-40-7		910 mg/kg bw/day [4] [7]	5320 mg/m <sup>3</sup> [4] [7]

**Notes** 

Systemic health effects. [4] Local health effects. [5] Long term. [6] [7] Short 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]
Tris-HCI 1185-53-1	10.8 mg/kg bw/day [4] [6]	-	37.7 mg/m³ [4] [6]
Magnesium Chloride 7786-30-3	7 mg/kg bw/day [4] [6]	-	-
Potassium Chloride 7447-40-7	91 mg/kg bw/day [4] [6] 455 mg/kg bw/day [4] [7]	910 mg/kg bw/day [4] [6] 910 mg/kg bw/day [4] [7]	273 mg/m³ [4] [6] 1365 mg/m³ [4] [7]

**Notes** 

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

Short term. [7]

# **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	-	-
Magnesium Chloride 7786-30-3	3.21 mg/L	5.48 mg/L	0.32 mg/L	-	-
Potassium Chloride 7447-40-7	0.1 mg/L	1 mg/L	0.1 mg/L	-	-
Tween-20 9005-64-5	0.2 mg/L	0.239 mg/L	0.02 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Glycerol 56-81-5	3.3 mg/kg sediment dw	0.33 mg/kg sediment dw	1000 mg/L	0.141 mg/kg soil dw	-
Magnesium Chloride 7786-30-3	288.9 mg/kg sediment dw	28.89 mg/kg sediment dw	90 mg/L	662.77 mg/kg soil dw	-
Potassium Chloride 7447-40-7	-	-	10 mg/L	-	-
Tween-20 9005-64-5	1.141 mg/kg sediment dw	1000 mg/kg 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.

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

9.1. Information on basic physical and chemical properties

Physical state Liquid Appearance Colorless

**Color** No information available

Odor Mild.

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point No data available None known

Initial boiling point and boiling rangeNo data available

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 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 None known

Relative density

Bulk density

Liquid Density

No data available

No data available

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**None known based on information supplied.

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** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

#### Symptoms related to the physical, chemical and toxicological characteristics

**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)
 126,000.00 mg/kg

 ATEmix (dermal)
 100,000.00 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
Ammonium Chloride	= 1650 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Igepal CA-630	= 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 hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

### **Ecotoxicity**

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ammonium Chloride	-	LC50: =209mg/L (96h, Cyprinus carpio)	-	-

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** 

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

Chemical name	PBT and vPvB assessment	
Ammonium Chloride	The substance is not PBT / vPvB	

### 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**

Α	T	Ά
_		$\boldsymbol{n}$

14.1 UN number or ID number14.2 Extended Proper ShippingNot regulatedNot regulated

Name

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazard
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions None

**IMDG** 

14.1UN number or ID numberNot regulated14.2Extended Proper ShippingNot regulated

Name

14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazard
Not regulated
Not applicable

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk No information available according to IMO instruments

RID

14.1 UN/ID No Not regulated
14.2 Extended Proper Shipping Not regulated
Name

14.3 Transport hazard class(es) Not regulated14.4 Packing group Not regulated

**14.4 Packing group** Not regulated **14.5 Environmental hazard** Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)

Not regulated
Not regulated
Not regulated

14.4 Packing group Not regulated14.5 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) This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH	Substance subject to authorization per
	Annex XVII	REACH Annex XIV
Ammonium Chloride - 12125-02-9	75.	-
	65.	
Igepal CA-630 - 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 Contact supplier for inventory compliance status DSL/NDSL **EINECS/ELINCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **ENCS IECSC** Contact supplier for inventory compliance status Contact supplier for inventory compliance status KECL **PICCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status AIIC Contact supplier for inventory compliance status **NZIoC** 

### 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 TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

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

Prepared by Environmental, Health and Safety

**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**