



# 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 08-Apr-2025

Version 12

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

### 1.1. Product identifier

**Product No** M0489  
**Product name** OneTaq® Hot Start Quick-Load® 2X Master Mix with GC 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

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

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

Contains a known or suspected endocrine disruptor.

| Chemical name | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of 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 name              | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|----------------------------|----------|---------------------------|---------------------|-----------------------------------------------------------------|------------------------------------|----------|----------------------|
| Dimethyl Sulfoxide 67-68-5 | 7 - 13   | No data available         | 200-664-3           | No data available                                               | -                                  | -        | -                    |
| Ammonium Sulfate 7783-20-2 | 0.1 - 1  | No data available         | 231-984-1           | No data available                                               | -                                  | -        | -                    |
| Igepal CA-630 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 - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|----------------------------|-----------------|-------------------|---------------------------------------------|-----------------------------------------|--------------------------------------|
| Dimethyl Sulfoxide 67-68-5 | 28300           | 40000             | No data available                           | No data available                       | No data available                    |
| Ammonium Sulfate 7783-20-2 | 2840            | 2000              | No data available                           | No data available                       | No data available                    |
| Igepal CA-630 9002-93-1    | 1800            | No data available | No data available                           | No data available                       | No data available                    |

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 |
|---------------|-----------|-----------------|
| Igepal CA-630 | 9002-93-1 | X               |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Remove to fresh air.                                                                                                 |
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin contact</b> | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.                 |
| <b>Ingestion</b>    | Rinse mouth.                                                                                                         |

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

**Symptoms** No information available.

**Effects of Exposure** None.

### 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

**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 the substance or mixture

**Specific hazards arising from the chemical** No information available.

### 5.3. Advice for firefighters

|                                                                       |                                                                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special protective equipment and precautions for fire-fighters</b> | 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

|                                 |                                                   |
|---------------------------------|---------------------------------------------------|
| <b>Personal precautions</b>     | Ensure adequate ventilation.                      |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8. |

### 6.2. Environmental precautions

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|-------------------------------------------------------|

### 6.3. Methods and material for containment and cleaning up

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Take up mechanically, placing in appropriate containers for disposal.                |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

### 6.4. Reference to other sections

|                                    |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| <b>Reference to other sections</b> | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--------------------------------------------------------------------------|

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| <b>Advice on safe handling</b>        | Ensure adequate ventilation.                                           |
| <b>General hygiene considerations</b> | Handle in accordance with good industrial hygiene and safety practice. |

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

|                                 |                                                                   |
|---------------------------------|-------------------------------------------------------------------|
| <b>Storage Conditions</b>       | Keep container tightly closed in a dry and well-ventilated place. |
| <b>Storage class (TRGS 510)</b> | Storage class 10.                                                 |

### 7.3. Specific end use(s)

|                                      |                                                                  |
|--------------------------------------|------------------------------------------------------------------|
| <b>Risk management methods [RMM]</b> | 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                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Dimethyl Sulfoxide<br>67-68-5 | -                                                                                                                    | TWA: 50 ppm<br>TWA: 160 mg/m <sup>3</sup><br>Sk* | -                                                                                                | -                                                                                                | -                                                                                                |
| Ammonium Sulfate<br>7783-20-2 | -                                                                                                                    | -                                                | -                                                                                                | TWA: 10.0 mg/m <sup>3</sup>                                                                      | -                                                                                                |
| Chemical name                 | Cyprus                                                                                                               | Czech Republic                                   | Denmark                                                                                          | Estonia                                                                                          | Finland                                                                                          |
| Dimethyl Sulfoxide<br>67-68-5 | -                                                                                                                    | -                                                | TWA: 50 ppm<br>TWA: 160 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 320 mg/m <sup>3</sup>        | TWA: 50 ppm<br>TWA: 150 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 500 mg/m <sup>3</sup><br>Sk* | TWA: 50 ppm<br>Sk*                                                                               |
| Chemical name                 | France                                                                                                               | Germany TRGS                                     | Germany DFG                                                                                      | Greece                                                                                           | Hungary                                                                                          |
| Dimethyl Sulfoxide<br>67-68-5 | -                                                                                                                    | TWA: 50 ppm<br>TWA: 160 mg/m <sup>3</sup><br>Sk* | TWA: 50 ppm<br>TWA: 160 mg/m <sup>3</sup><br>Peak: 100 ppm<br>Peak: 320 mg/m <sup>3</sup><br>Sk* | -                                                                                                | -                                                                                                |
| Chemical name                 | Ireland                                                                                                              | Italy MDLPS                                      | Italy AIDII                                                                                      | Latvia                                                                                           | Lithuania                                                                                        |
| Dimethyl Sulfoxide<br>67-68-5 | -                                                                                                                    | -                                                | -                                                                                                | -                                                                                                | TWA: 50 ppm<br>TWA: 150 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 500 mg/m <sup>3</sup><br>Sk* |
| Ammonium Sulfate<br>7783-20-2 | -                                                                                                                    | -                                                | -                                                                                                | TWA: 0.02 mg/m <sup>3</sup>                                                                      | -                                                                                                |
| Chemical name                 | Portugal                                                                                                             | Romania                                          | Slovakia                                                                                         | Slovenia                                                                                         | Spain                                                                                            |
| Dimethyl Sulfoxide<br>67-68-5 | -                                                                                                                    | -                                                | -                                                                                                | TWA: 160 mg/m <sup>3</sup><br>TWA: 50 ppm<br>STEL: 100 ppm<br>STEL: 320 mg/m <sup>3</sup><br>Sk* | -                                                                                                |
| Chemical name                 | Sweden                                                                                                               |                                                  | Switzerland                                                                                      | United Kingdom                                                                                   |                                                                                                  |
| Dimethyl Sulfoxide<br>67-68-5 | NGV: 50 ppm<br>NGV: 150 mg/m <sup>3</sup><br>Vägledande KGV: 150 ppm<br>Vägledande KGV: 500 mg/m <sup>3</sup><br>Sk* |                                                  | TWA: 50 ppm<br>TWA: 160 mg/m <sup>3</sup><br>STEL: 100 ppm<br>STEL: 320 mg/m <sup>3</sup><br>Sk* | -                                                                                                |                                                                                                  |

**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<br>56-81-5            | -    | -                          | 56 mg/m <sup>3</sup> [5] [6]                                   |
| Dimethyl Sulfoxide<br>67-68-5  | -    | 200 mg/kg bw/day [4] [6]   | 484 mg/m <sup>3</sup> [4] [6]<br>265 mg/m <sup>3</sup> [5] [6] |
| Tris (Tris Base)<br>77-86-1    | -    | 166.7 mg/kg bw/day [4] [6] | 117.5 mg/m <sup>3</sup> [4] [6]                                |
| Magnesium Sulfate<br>7487-88-9 | -    | 21.3 mg/kg bw/day [4] [6]  | 37.6 mg/m <sup>3</sup> [4] [6]                                 |
| Tartrazine<br>1934-21-0        | -    | 52.82 mg/kg bw/day [4] [6] | 372.52 mg/m <sup>3</sup> [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<br>56-81-5            | 229 mg/kg bw/day [4] [6]   | -      | 33 mg/m³ [5] [6]                      |
| Dimethyl Sulfoxide<br>67-68-5  | 60 mg/kg bw/day [4] [6]    | -      | 120 mg/m³ [4] [6]<br>47 mg/m³ [5] [6] |
| Tris (Tris Base)<br>77-86-1    | 8.3 mg/kg bw/day [4] [6]   | -      | 29 mg/m³ [4] [6]                      |
| Magnesium Sulfate<br>7487-88-9 | 12.8 mg/kg bw/day [4] [6]  | -      | 11.1 mg/m³ [4] [6]                    |
| Tartrazine<br>1934-21-0        | 26.41 mg/kg bw/day [4] [6] | -      | 91.86 mg/m³ [4] [6]                   |

**Notes**

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

**Predicted No Effect Concentration (PNEC)**

| Chemical name                  | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|--------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| Glycerol<br>56-81-5            | 0.885 mg/L | 8.85 mg/L                            | 0.0885 mg/L  | -                                      | -   |
| Dimethyl Sulfoxide<br>67-68-5  | 17 mg/L    | -                                    | 1.7 mg/L     | -                                      | -   |
| Tween-20<br>9005-64-5          | 0.2 mg/L   | 0.239 mg/L                           | 0.02 mg/L    | -                                      | -   |
| Magnesium Sulfate<br>7487-88-9 | 0.68 mg/L  | 6.8 mg/L                             | 0.068 mg/L   | -                                      | -   |
| Tartrazine<br>1934-21-0        | 0.12 mg/L  | 1.2 mg/L                             | 0.012 mg/L   | -                                      | -   |

| Chemical name                  | Freshwater<br>sediment    | Marine sediment            | Sewage treatment | Soil                  | Food chain    |
|--------------------------------|---------------------------|----------------------------|------------------|-----------------------|---------------|
| Glycerol<br>56-81-5            | 3.3 mg/kg sediment dw     | 0.33 mg/kg sediment dw     | 1000 mg/L        | 0.141 mg/kg soil dw   | -             |
| Dimethyl Sulfoxide<br>67-68-5  | 13.4 mg/kg sediment dw    | -                          | 11 mg/L          | 3.02 mg/kg soil dw    | 0.7 g/kg food |
| Tris (Tris Base)<br>77-86-1    | -                         | -                          | 300 mg/L         | -                     | -             |
| Tween-20<br>9005-64-5          | 1.141 mg/kg sediment dw   | 1000 mg/kg sediment dw     | -                | -                     | -             |
| Magnesium Sulfate<br>7487-88-9 | -                         | -                          | 10 mg/L          | -                     | -             |
| Tartrazine<br>1934-21-0        | 0.46992 mg/kg sediment dw | 0.046992 mg/kg sediment dw | 10 mg/L          | 0.02353 mg/kg soil 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

### 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 range | No data available | None known              |
| Flammability (solid, gas)               | No data available | None known              |
| Flammability Limit in Air               |                   | None known              |
| Upper flammability or explosive limits  | No data available |                         |
| Lower flammability or explosive limits  | No data available |                         |
| Flash point                             | No data available | None known              |
| Autoignition temperature                | 215 °C            |                         |
| Decomposition temperature               |                   | None known              |
| pH                                      | 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 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)                 | 67,772.60 | mg/kg |
| ATEmix (dermal)               | 61,063.20 | 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         |
|--------------------|-----------------------|-----------------------|-------------------------|
| Dimethyl Sulfoxide | = 28300 mg/kg ( Rat ) | = 40000 mg/kg ( Rat ) | > 5.33 mg/L ( Rat ) 4 h |
| Ammonium Sulfate   | = 2840 mg/kg ( Rat )  | > 2000 mg/kg ( Rat )  | -                       |
| Igepal CA-630      | = 1800 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                          |
|--------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------|
| Dimethyl Sulfoxide | -                    | LC50: =34000mg/L (96h, Pimephales promelas)<br>LC50: 33 - 37g/L (96h, Oncorhynchus mykiss)<br>LC50: >40g/L (96h, Lepomis macrochirus)<br>LC50: =41.7g/L (96h, Cyprinus carpio)                                                                                                                                                                                                                                          | -                          | -                                  |
| Ammonium Sulfate   | -                    | LC50: =250mg/L (96h, Brachydanio rerio)<br>LC50: =480mg/L (96h, Brachydanio rerio)<br>LC50: =420mg/L (96h, Brachydanio rerio)<br>LC50: =18mg/L (96h, Cyprinus carpio)<br>LC50: 32.2 - 41.9mg/L (96h, Oncorhynchus mykiss)<br>LC50: 5.2 - 8.2mg/L (96h, Oncorhynchus mykiss)<br>LC50: >100mg/L (96h, Pimephales promelas)<br>LC50: 123 - 128mg/L (96h, Poecilia reticulata)<br>LC50: =126mg/L (96h, Poecilia reticulata) | -                          | LC50: =14mg/L (48h, Daphnia magna) |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

#### Bioaccumulation

#### Component Information

| Chemical name      | Partition coefficient |
|--------------------|-----------------------|
| Dimethyl Sulfoxide | -1.35                 |
| Ammonium Sulfate   | -5.1                  |

### 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 |
|--------------------|-------------------------|
| Dimethyl Sulfoxide | Not PBT/vPvB            |
| Ammonium Sulfate   | 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

#### IATA

14.1 UN number or ID number Not regulated  
 14.2 Extended Proper Shipping Name Not regulated  
 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

#### IMDG

14.1 UN number or ID number Not regulated  
 14.2 Extended Proper Shipping Name Not regulated  
 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  
 14.7 Maritime transport in bulk according to IMO instruments No information available

#### RID

14.1 UN number or ID number Not regulated

|                                    |                |
|------------------------------------|----------------|
| 14.2 Extended Proper Shipping Name | Not regulated  |
| 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           |

#### ADR

|                                   |                |
|-----------------------------------|----------------|
| 14.1 UN number or ID number       | Not regulated  |
| 14.2 UN proper shipping name      | Not regulated  |
| 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

#### National regulations

##### France

#### Occupational Illnesses (R-463-3, France)

| Chemical name                | French RG number |
|------------------------------|------------------|
| Dimethyl Sulfoxide - 67-68-5 | RG 84            |

##### 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 |
|---------------------------|-------------------------------------------|--------------------------------------------------------|
| Igepal CA-630 - 9002-93-1 | -                                         | 42                                                     |

#### Persistent Organic Pollutants

Not applicable

#### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

#### Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name                | Biocidal Products Regulation (EU) No 528/2012 (BPR)                                                     |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| Ammonium Sulfate - 7783-20-2 | Product-type 11: Preservatives for liquid-cooling and processing systems<br>Product-type 12: Slimicides |

#### 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

|              |                                                  |
|--------------|--------------------------------------------------|
| <b>IECSC</b> | Contact supplier for inventory compliance status |
| <b>KECL</b>  | Contact supplier for inventory compliance status |
| <b>PICCS</b> | Contact supplier for inventory compliance status |
| <b>AIIC</b>  | Contact supplier for inventory compliance status |
| <b>NZIoC</b> | Contact supplier for inventory compliance status |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - 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 Chemicals Inventory  
**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         | Sk*  | 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)  
 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)  
 U.S. 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

**Revision date** 08-Apr-2025

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

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**End of Safety Data Sheet**