

# SAFETY DATA SHEET

Document Type AGHS - OSHA GHS

Revision date 29-Dec-2016

Version 4

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

| Product name<br>Product No                       | M13K07 Helper Phage<br>N0315                      |  |  |  |
|--|---|--|--|--|
| Recommended use of the chemical                  | and restrictions on use_                          |  |  |  |
| Recommended use                                  | This product is for research and development only |  |  |  |
| Uses advised against                             | No information available                          |  |  |  |
| Details of the supplier of the safety data sheet |   |  |  |  |
| Supplier Address                                 | New England BioLabs                               |  |  |  |
|  | 240 County Road                                   |  |  |  |
|  | lpswich, MA 01938                                 |  |  |  |
|  | ÚSA Í   |  |  |  |
| Company Phone Number                             | 978-927-5054                                      |  |  |  |
|  | 800-632-5227 (toll free)                          |  |  |  |
| Telefax  | 978-921-1350                                      |  |  |  |
| E-mail address                                   | info@neb.com                                      |  |  |  |
| Emergency telephone number                       |   |  |  |  |
| Emergency telephone                              | 978-927-5054                                      |  |  |  |
|  | 800-632-5227 (toll free)                          |  |  |  |
|  | 9:00am - 5:00pm Monday-Friday EST                 |  |  |  |

# 2. HAZARDS IDENTIFICATION

#### **Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

# Emergency Overview The product contains no substances which at their given concentration, are considered to be hazardous to health Appearance Colorless Physical state Liquid Odor Mild

## Hazards not otherwise classified (HNOC)

## Other information

Note: No data available

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health.

# 4. FIRST AID MEASURES

#### First aid measures

**General advice** No hazards which require special first aid measures.

#### Eye contact

None under normal use conditions.

#### Skin contact

None under normal use conditions.

#### Inhalation

None under normal use conditions.

#### Ingestion

None under normal use conditions.

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

No information available.

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

#### Note to physicians

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

None.

#### Specific hazards arising from the chemical

None in particular.

#### Protective equipment and precautions for firefighters

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

# 6. ACCIDENTAL RELEASE MEASURES

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

#### Personal precautions

No information available.

#### Personal protective equipment [PPE]

Use personal protection recommended in Section 8.

#### Environmental precautions

See Section 12 for additional Ecological Information.

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

# Methods for containment

Not applicable.

#### Methods for cleaning up

Collect spillage.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

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

#### Storage temperature

No information available.

#### **Storage Conditions**

Keep/store only in original container.

#### Incompatible materials

None known based on information supplied.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

#### **Exposure Guidelines**

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

#### Appropriate engineering controls

Showers. Eyewash stations.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin and body protection

Wear suitable protective clothing and gloves.

# Respiratory protection

Not applicable.

#### **General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

| Physical state | Liquid    |
|----------------|-----------|
| Appearance     | Colorless |
| Odor           | Mild      |

Property pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit Lower flammability limit Vapor pressure Vapor density **Relative density** Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature Kinematic viscosity** Dynamic viscosity **Explosive properties Oxidizing properties** 

**Other information** 

Softening point Molecular weight VOC content (%) Density Bulk density

#### Remarks • Method

Not applicable No information available No information available

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# **10. STABILITY AND REACTIVITY**

#### Reactivity

No data available.

#### Chemical stability

Stable under normal conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

None known based on information supplied.

#### Hazardous decomposition products

None under normal use conditions.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Inhalation No known effect.

#### Eye contact

No known effect.

Skin contact No known hazard in contact with skin.

Ingestion

No known effect.

#### Information on toxicological effects

#### Symptoms

No information available.

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

| Skin corrosion/irritation<br>Serious eye damage/eye irritation<br>Irritation<br>Corrosivity<br>Sensitization | Not applicable<br>Not applicable<br>No information available<br>Not applicable |
|--|--|
| Skin   | No information available   |
| Respiratory  | No information available   |
| Germ cell mutagenicity   | No information available   |
| Carcinogenicity  | No information available   |
| Reproductive toxicity  | No information available   |
| Developmental toxicity   | No information available   |
| Teratogenicity   | No information available   |
| STOT - single exposure   | No information available   |
| STOT - repeated exposure   | No information available   |
| Chronic toxicity   | No information available   |
| Subchronic toxicity  | No information available   |
| Target organ effects   | None known.  |
| Neurological effects   | No information available   |
| Other adverse effects  | No information available   |
| Aspiration hazard  | No information available   |

Numerical measures of toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document . mg/kg mg/l

# **12. ECOLOGICAL INFORMATION**

#### Marine pollutant

No information available

#### **Ecotoxicity**

No information available

#### 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Chemical Name                | Algae/aquatic plants | Fish   | Toxicity to<br>microorganisms | Crustacea  |
|------------------------------|----------------------|--|-------------------------------|--|
| Sodium Chloride<br>7647-14-5 | -                    | 12946: 96 h Lepomis<br>macrochirus mg/L LC50<br>static 5560 - 6080: 96 h<br>Lepomis macrochirus mg/L<br>LC50 flow-through 4747 -<br>7824: 96 h Oncorhynchus<br>mykiss mg/L LC50<br>flow-through 7050: 96 h | -                             | 1000: 48 h Daphnia magna<br>mg/L EC50 340.7 - 469.2: 48<br>h Daphnia magna mg/L<br>EC50 Static |

|                                 |   | Pimephales promelas mg/L<br>LC50 semi-static 6020 -<br>7070: 96 h Pimephales<br>promelas mg/L LC50 static<br>6420 - 6700: 96 h<br>Pimephales promelas mg/L<br>LC50 static |   |   |
|---------------------------------|---|---|---|---|
| Potassium Chloride<br>7447-40-7 | 2500: 72 h Desmodesmus<br>subspicatus mg/L EC50 | 1060: 96 h Lepomis<br>macrochirus mg/L LC50<br>static 750 - 1020: 96 h<br>Pimephales promelas mg/L<br>LC50 static   | - | 83: 48 h Daphnia magna<br>mg/L EC50 Static 825: 48 h<br>Daphnia magna mg/L EC50 |

#### Persistence and degradability

No information available

#### **Bioaccumulation**

No information available

#### Mobility

No information available

# Other adverse effects

Ozone Ozone depletion potential (ODP) No information available No information available

# **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

#### **Disposal considerations**

Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

#### Contaminated packaging

Empty containers must be tripled rinsed prior to disposal.

# **14. TRANSPORT INFORMATION**

DOT

Not regulated

Complies

# **15. REGULATORY INFORMATION**

International Inventories TSCA Legend:

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

# US Federal Regulations

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

# US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

| Prepared by     EH&S Manager       978-927-5054       Prepared by     New England BioLabs       Issue date     No data available   | 16. OTHER INFORMATION |  |                     |  |   |  |
|--|-----------------------|--|---------------------|--|---|--|
| 978-927-5054         Prepared by       New England BioLabs         Issue date       No data available  |                       |  |                     |  | Special Hazard -<br>Personal protection - |  |
| Issue date No data available   | Prepared by           | 5  |                     |  |   |  |
|  | Prepared by           | New Eng  | New England BioLabs |  |   |  |
|  | Issue date            | No data  | No data available   |  |   |  |
| Revision note       SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.         Disclaimer       IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or |                       | SDS is valid 3 years from revision date. Contact info@neb.com for latest revision. |                     |  |   |  |

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**End of Safety Data Sheet**