

# SAFETY DATA SHEET

Document Type AGHS - OSHA GHS

Revision date 21-Apr-2015

Solution A (minus aa, tRNA)

Version 1

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

i ioddet fidfie					
Product No	B6841				
	50011				
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				
Supplier address	0				
	240 County Road				
	Ipswich, MA 01938				
	•				
	USA				
0	070 007 5054				
Company phone number	978-927-5054				
	800-632-5227 (toll free)				
Telefax	978-921-1350				
E-mail address	info@neb.com				
Emorgonov tolonkono numbor					
Emergency telephone number					
Emergency telephone	978-927-5054				
	800-632-5227 (toll free)				
	9:00am - 5:00pm Monday-Friday EST				

## 2. HAZARDS IDENTIFICATION

#### **Classification**

**Product name** 

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

18.375% of the mixture consists of ingredient(s) of unknown toxicity *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**

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove from exposure, lie down. Do not breathe dust/fume/gas/mist/vapors/spray.

#### 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.

#### Inhalation

Remove to fresh air.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water.

#### 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

Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the product

No information available.

#### 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

Ensure adequate ventilation, especially in confined areas.

#### 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

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

## 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

Refer to www.neb.com for specific information.

#### 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

Use in well ventilated areas.

#### **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	
Appearance	
Odor	

Liquid Colorless Mild

Property рΗ 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

Refer to www.neb.com for specific information 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

# Can react briskly with oxidizers - danger of explosion.

#### Conditions to avoid

Incompatible materials. Ignition sources. Heat.

#### Incompatible materials

Strong oxidizing agents.

#### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### Inhalation

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

**Product name** Solution A (minus aa, tRNA)

#### Eye contact

Redness. May cause slight irritation.

#### Skin contact

Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

#### Ingestion

May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

#### 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 Serious eye damage/eye irritation Irritation Corrosivity Sensitization	Mild Mild Mild Mild
Skin	No information available
Respiratory	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity Developmental toxicity	No information available No information available No information available
Teratogenicity STOT - single exposure	No information available
STOT - repeated exposure Chronic toxicity Subchronic toxicity Target organ effects Neurological effects Other adverse effects Aspiration hazard	No information available No information available No information available Kidneys, Eyes, Skin, Respiratory system. No information available No information available No information available

#### Numerical measures of toxicity - Product information

Unknown acute toxicity 18.375% of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document . mg/kg

## **12. ECOLOGICAL INFORMATION**

#### Marine pollutant

No information available

## Ecotoxicity

No information available

53.375% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

# Persistence and degradability

No information available

#### **Bioaccumulation**

No information available

**Product name** Solution A (minus aa, tRNA)

Mobility No information available

<u>Other adverse effects</u> Ozone Ozone depletion potential (ODP)

No information available No information available

## **13. DISPOSAL CONSIDERATIONS**

#### Waste treatment methods

#### **Relevant information**

Keep out of drains, sewers, ditches and waterways.

#### **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

## **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

16. OTHER INFORMATION						
NFPA HMIS	Health hazards 0 Health hazards 0	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special Hazard - Personal protection -		
Prepared by	EHS Manager 978-927-5054 info@neb.com					
Prepared by	New Eng	New England BioLabs				
Issue date	No data available					
Revision note	SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.					
<b>Disclaimer</b>						
IMPORTANT: The in	formation in this SDS is	provided in good faith b	ased on our knowledge as	of the issue date (or		

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End of Safety Data Sheet