# 1. PRODUCT

### **1.1 Product identifiers**

Name: Phoxim

CAS-No.: 14816-18-3

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 2), H330

Acute toxicity, Dermal (Category 3), H311

Respiratory sensitisation (Category 1), H334

Reproductive toxicity (Category 2), H361

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal word	Danger
Hazard statement(s)	H301 + H311 Toxic if swallowed or in contact with skin H330 Fatal if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H361 Suspected of damaging fertility or the unborn child. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	<ul> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing.</li> <li>P284 Wear respiratory protection.</li> <li>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P310 Immediately call a POISON CENTER or doctor/ physician.</li> <li>P302 Specific treatment is urgent (see supplemental first aid instructions on this label).</li> <li>P330 Rinse mouth.</li> <li>P330 Rinse mouth.</li> <li>P331 Remove/Take off immediately all contaminated clothing.</li> <li>P333 Wash contaminated clothing before reuse.</li> <li>P391 Collect spillage.</li> <li>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Formula:	$C_{12}H_{15}N_2O_3PS$
CAS-No.:	14816-18-3
EC-No.:	238-887-3

### Hazardous components

Component	Classification	Concentration
Phoxim		
	Acute Tox. 3; Acute Tox. 2; Acute Tox. 3; Skin Sens. 1; Repr. 2; Aquatic Acute 1; Aquatic Chronic 1; H301 + H311, H317, H330, H361, H410	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

### General advice Consult a physicia

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

### **5. FIREFIGHTING MEASURES**

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Phosphorous oxides

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Oxides of phosphorus

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

Eye/face protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the
environmen	environment must be avoided.
tal	
exposure	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Form: liquid
Odour	no data available
Odour Threshold	no data available
рН	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	slightly soluble
Partition coefficient: n-octanol/water	log Pow: 4.39
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### 9.2 Other safety information

no data available

## **10. STABILITY AND REACTIVITY**

# 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

no data available

#### **10.5 Incompatible materials**

Strong oxidizing agents

### **10.6 Hazardous decomposition products**

Other decomposition products - no data available

In the event of fire: see section 5

## 11.1 Information on toxicological effects

Acute toxicity	
LD50 Oral - rat - 300 mg/kg LC50 Inhalation - rat - 1 h - > 3,200 mg/m3 LD50 Dermal - rat - 1,000 mg/kg no data available	
Skin corrosion/irritation	
no data available	
Serious eye damage/eye irritation	
no data available	
Respiratory or skin sensitisation	
no data available	
Germ cell mutagenicity	
no data available	
Carcinogenicity	5
IARC: No component of this product present at levels greater than probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater that carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater that carcinogen or potential carcinogen by OSHA.	n or equal to 0.1% is identified as a provide the first of the first o
Reproductive toxicity	
Suspected human reproductive toxicant no data available Reproductive toxicity - rat - Oral Paternal Effects: Spermatogenesis (including genetic material, spe Testes, epididymis, sperm duct. Reproductive toxicity - rat - Oral Paternal Effects: Prostate, seminal vessicle, Cowper's gland, acce no data available Developmental Toxicity - rat - Oral Effects on Embryo or Fetus: Fetal death. Developmental Toxicity - rat - Oral Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunte	ssory glands.
Specific target organ toxicity -single exposure	
no data available	
Specific target organ toxicity -repeated exposure	C*
no data available	
Aspiration hazard	
no data available	
Additional Information	
RTECS: MD4740000 burning sensation, Cough, wheezing, laryngitis, Shortness of breat disturbance, Incoordination., Lachrymation, Convulsions, May caus chemical, physical, and toxicological properties have not been thou Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence	se cyanosis., To the best of our knowledge, the
Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence	A STO

### **12. ECOLOGICAL INFORMATION**

# 12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.2 - 0.8 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Toxicity to bacteria	No data available

# 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

no data available

### **13. DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# Contaminated packaging

Dispose of as unused product.

### **14. TRANSPORT INFORMATION**

### DOT (US)

UN number: 2810 Class: 6.1 Packing group: III

Proper shipping name: Toxic, liquids, organic, n.o.s. (Phoxim)

Marine pollutant: No

Poison Inhalation Hazard: No

### IMDG

UN number: 2810 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Phoxim)

Marine pollutant: Marine pollutant

### ΙΑΤΑ

UN number: 2810 Class: 6.1 Packing group: III

Proper shipping name: Toxic liquid, organic, n.o.s. (Phoxim)

### **15. REGULATORY INFORMATION**

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the

threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

Component	CAS-No.	Revision Date
Phoxim	14816-18-3	2009-07-17

### New Jersey Right To Know Components

Component	CAS-No.	Revision Date
Phoxim	14816-18-3	2009-07-17

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other

reproductive harm.

### **16. OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity

Aquatic Chronic Chronic aquatic toxicity

H301 Toxic if swallowed.

H301 + H311 Toxic if swallowed or in contact with skin

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H361 Suspected of damaging fertility or the unborn child.

### **HMIS** Rating

Health hazard: 3

Chronic Health Hazard: \*

Flammability: 0

Physical Hazard 0

### **NFPA** Rating

Health hazard: 3

Fire Hazard: 0

Reactivity Hazard: 0