

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 07/22/2013

Version1.1

#### **SECTION 1.Identification**

**Product identifier** 

Catalog No. 116899

Product name Ammonium Test Method: reflectometric with test strips and reagents

5.0 - 20.0 mg/l NH<sub>4</sub><sup>+</sup> Reflectoquant®

NH₄-1

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

Identified uses Reagent for analysis

Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to

4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

# **SECTION 2. Hazards identification**

### **GHS Classification**

Corrosive to Metals, Category 1, H290 Skin corrosion, Category 1B, H314

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

# **GHS-Labeling**

Hazard pictograms



Signal Word Danger

Hazard Statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or

doctor/physician.

#### **OSHA Hazards**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Other hazards

None known.

### SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution of inorganic and organic compounds.

### Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

sodium hydroxide (>= 1 % - < 5 %)

1310-73-2

1-hydroxyethane-1,1-diphosphonic acid (>= 1 % - < 5 %)

2809-21-4

#### **SECTION 4. First aid measures**

#### Description of first-aid measures

Inhalation

After inhalation: fresh air. Call in physician.

Skin contact

After skin contact: wash off with plenty of water. Immediately remove contaminated clothing. If available swab with polyethylene glycol 400. Call a physician immediately.

Eve contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

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

Irritation and corrosion, Cough, Shortness of breath, collapse, death

# Indication of any immediate medical attention and special treatment needed

No information available.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

# **SECTION 5. Fire-fighting measures**

### Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

#### Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

# SECTION 6. Accidental release measures

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

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

#### **Environmental precautions**

Do not empty into drains.

# Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® OH-, Merck Art. No.

101596). Dispose of properly. Clean up affected area.

# SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

# Conditions for safe storage, including any incompatibilities

Tightly closed.

Store at  $+2^{\circ}$ C to  $+8^{\circ}$ C ( $+36^{\circ}$ F to  $+46^{\circ}$ F).

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

The data applies to the entire pack.

# SECTION 8. Exposure controls/personal protection

# Exposure limit(s)

Ingredients

Basis Value Threshold Remarks

limits

2 mg/m<sup>3</sup>

sodium hydroxide (1310-73-2)

ACGIH Ceiling Limit Value: 2 mg/m³

NIOSH/GUIDE Ceiling Limit Value and

Time Period (if

specified):

OSHA\_TRANS PEL: 2 mg/m³

Z1A Ceiling Limit Value: 2 mg/m³

#### **Engineering measures**

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection

Tightly fitting safety goggles

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other protective equipment:

protective clothing

Respiratory protection

required when vapors/aerosols are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### SECTION 9. Physical and chemical properties

Physical state liquid

Color colorless

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

Odor characteristic odor

Odor Threshold No information available.

pH ca. 14

at 68 °F (20 °C)

Melting point No information available.

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Relative density ca.1.34 g/cm<sup>3</sup>

at 68 °F (20 °C)

Water solubility at 68 °F (20 °C)

soluble

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

#### SECTION 10. Stability and reactivity

#### Reactivity

See below

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# Possibility of hazardous reactions

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

Metals, Light metals, Possible formation of:

Hydrogen

ammonium compounds, Possible formation of:

Ammonia

Violent reactions possible with:

Acids

#### Conditions to avoid

no information available

# Incompatible materials

Metals

Hydrogen may form upon contact with light metals (danger of explosion!).

# Hazardous decomposition products

no information available

# **SECTION 11. Toxicological information**

# Information on toxicological effects

Likely route of exposure
Eye contact, Skin contact
Target Organs

Eyes

Skin

Respiratory system

Lungs

Gastro-intestinal system

head

tongue

trachea

Acute oral toxicity

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

Skin irritation

Mixture causes burns.

Eye irritation

Mixture causes serious eye damage. Risk of blindness!

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

### Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

#### **Further information**

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

Systemic effects:

collapse, death

Further data:

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# Ingredients

sodium hydroxide

Skin irritation

rabbit

Result: Causes burns.

(RTECS)

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

Eye irritation

rabbit

Result: Causes burns.

(RTECS)

Germ cell mutagenicity Genotoxicity in vitro

Mutagenicity (mammal cell test): micronucleus.

Result: negative

(Lit.)

Ames test Result: negative (IUCLID)

1-hydroxyethane-1,1-diphosphonic acid

No information available.

# **SECTION 12. Ecological information**

### **Ecotoxicity**

No information available.

# Persistence and degradability

No information available.

# Bioaccumulative potential

No information available.

# Mobility in soil

No information available.

# Other adverse effects

Additional ecological information

Discharge into the environment must be avoided.

#### Ingredients

# sodium hydroxide

Toxicity to fish

LC50 Gambusia affinis (Mosquito fish): 125 mg/l; 96 h (External MSDS)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 76 mg/l; 24 h (External MSDS)

Toxicity to bacteria

EC50 Photobacterium phosphoreum: 22 mg/l; 15 min (External MSDS)

Biodegradability

The methods for determining biodegradability are not applicable to inorganic substances.

PBT/vPvB: Not applicable for inorganic substances

1-hydroxyethane-1,1-diphosphonic acid

No information available.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

# **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **SECTION 14. Transport information**

# Land transport (DOT)

UN number UN3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group II
Environmentally hazardous ---

# Air transport (IATA)

UN number UN 3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group II
Environmentally hazardous -Special precautions for user no

#### Sea transport (IMDG)

UN number UN 3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group II
Environmentally hazardous -Special precautions for user yes
EmS F-A S-P

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

# **SECTION 15. Regulatory information**

# **United States of America**

#### **OSHA Hazards**

Target organ effects Harmful if swallowed. Corrosive to skin Corrosive to eyes

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

Corrosive by inhalation.

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

#### SARA 311/312 Hazards

Acute Health Hazard Chronic Health Hazard

#### **SARA 313**

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 302**

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

# Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A: *Ingredients* 

sodium hydroxide

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Ingredients

sodium hydroxide

# **DEA List I**

Not listed

### **DEA List II**

Not listed

# **US State Regulations**

### Massachusetts Right To Know

Ingredients

sodium hydroxide

# Pennsylvania Right To Know

Ingredients

water

Potassium sodium tartrate

sodium hydroxide

1-hydroxyethane-1,1-diphosphonic acid

# New Jersey Right To Know

Ingredients

water

Potassium sodium tartrate

sodium hydroxide

1-hydroxyethane-1,1-diphosphonic acid

### California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer,

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-1

birth, or any other reproductive defects.

### **Notification status**

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

#### **SECTION 16. Other information**

# Training advice

Provide adequate information, instruction and training for operators.

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

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date07/22/2013

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

All rights reserved. Millipore and the "M" Mark are registered trademarks of Merck KGaA, Darmstadt, Germany.



Version1.1

# MATERIAL SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 07/22/2013

**SECTION 1.Identification** 

Product identifier

Catalog No. 116899

Product name Ammonium Test Method: reflectometric with test strips and reagents

5.0 - 20.0 mg/l NH<sub>4</sub>+ Reflectoquant®

NH<sub>4</sub>-2

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

Identified uses Reagent for analysis

Details of the supplier of the safety data sheet

Company EMD Millipore Corporation | 290 Concord Road, Billerica, MA 01821,

United States of America | SDS Phone Support: +1-978-715-1335 | General Inquiries: +1-978-715-4321 | Monday to Friday, 9:00 AM to

4:00 PM Eastern Time (GMT-5)

Emergency telephone 800-424-9300 CHEMTREC (USA)

+1-703-527-3887 CHEMTREC (International)

24 Hours/day; 7 Days/week

# **SECTION 2. Hazards identification**

#### **GHS Classification**

Chronic aquatic toxicity, Category 2, H411

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

# **GHS-Labeling**

Hazard pictograms



Hazard Statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

# **OSHA Hazards**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other hazards

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

None known.

# SECTION 3. Composition/information on ingredients

Chemical nature Mixture of inorganic and organic compounds

### Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

Sodium chloride (>= 30 % - < 50 %)

7647-14-5

troclosene sodium, dihydrate (>= 1 % - < 5 %)

51580-86-0

#### **SECTION 4. First aid measures**

### Description of first-aid measures

Inhalation

After inhalation: fresh air.

Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

Eye contact

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in

ophthalmologist if necessary.

Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

# Most important symptoms and effects, both acute and delayed

irritant effects

# Indication of any immediate medical attention and special treatment needed

No information available.

#### SECTION 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

Fire may cause evolution of:

Sulfur oxides, Hydrogen chloride gas

# Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

#### **Environmental precautions**

Do not empty into drains.

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

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### SECTION 7. Handling and storage

# Precautions for safe handling

Observe label precautions.

## Conditions for safe storage, including any incompatibilities

Tightly closed.

Store at  $+2^{\circ}$ C to  $+8^{\circ}$ C ( $+36^{\circ}$ F to  $+46^{\circ}$ F).

The data applies to the entire pack.

# SECTION 8. Exposure controls/personal protection

#### Exposure limit(s)

Contains no substances with occupational exposure limit values.

#### **Engineering measures**

# Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

### Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

### Eye/face protection

Safety glasses

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### SECTION 9. Physical and chemical properties

Physical state solid

Color colorless

Odor characteristic odor

Odor Threshold No information available.

pH No information available.

Melting point No information available.

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapor pressure No information available.

Relative vapor density No information available.

Relative density No information available.

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

Water solubility at 68 °F (20 °C)

soluble

Partition coefficient: n-

octanol/water

No information available.

Autoignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

Bulk density ca.1,150 kg/m<sup>3</sup>

#### SECTION 10. Stability and reactivity

# Reactivity

See below

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

# Possibility of hazardous reactions

Dangerous reactions are not expected handling the product according to its intented use.

#### Conditions to avoid

no information available

# Incompatible materials

no information available

# Hazardous decomposition products

in the event of fire: See section 5.

# **SECTION 11. Toxicological information**

# Information on toxicological effects

Likely route of exposure
Eye contact, Skin contact, Ingestion
Target Organs

Skin

Eyes

Stomach

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

Acute oral toxicity

Symptoms: Irritation of mucous membranes Acute toxicity estimate: > 2,000 mg/kg

Calculation method

Acute inhalation toxicity

Symptoms: slight mucosal irritations

Eye irritation slight irritation

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

### Carcinogenicity

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

#### **Further information**

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

#### Ingredients

Sodium chloride

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

Acute oral toxicity

LD50 rat: 3,000 mg/kg (RTECS)

Acute dermal toxicity

LD50 rabbit: > 10,000 mg/kg (RTECS)

Germ cell mutagenicity
Genotoxicity in vitro
Mutagenicity (mammal cell test): micronucleus.
Result: negative
(IUCLID)

Ames test Result: negative (IUCLID)

# troclosene sodium, dihydrate

Acute oral toxicity

LD50 rat: 550 - 1,600 mg/kg (External MSDS)

Acute dermal toxicity

LD50 rabbit: > 5,000 mg/kg (External MSDS)

# SECTION 12. Ecological information

# **Ecotoxicity**

No information available.

# Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

# Mobility in soil

No information available.

#### Other adverse effects

# Ingredients

# Sodium chloride

Toxicity to fish

LC50 Pimephales promelas (fathead minnow): 7,650 mg/l; 96 h (IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 1,000 mg/l; 48 h (IUCLID)

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

# troclosene sodium, dihydrate

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout): 0.25 mg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 0.28 mg/l; 48 h (ECOTOX Database)

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

# **SECTION 13. Disposal considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **SECTION 14. Transport information**

# Land transport (DOT)

**UN number** UN3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group II
Environmentally hazardous ---

Air transport (IATA)

UN number UN 3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group II
Environmentally hazardous -Special precautions for user no

Sea transport (IMDG)

UN number UN 3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group II
Environmentally hazardous -Special precautions for user
EmS F-A S-P

THIS TRANSPORT DATA APPLIES TO THE ENTIRE PACK!

# **SECTION 15. Regulatory information**

**United States of America** 

**OSHA Hazards** 

Target organ effects

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

Harmful if swallowed.

Eye irritant

Respiratory irritant

This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2.

#### SARA 311/312 Hazards

Acute Health Hazard Chronic Health Hazard

#### **SARA 313**

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 302**

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

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311,

Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311,

Table 117.3.

#### **DEA List I**

Not listed

#### **DEA List II**

Not listed

# **US State Regulations**

# Massachusetts Right To Know

Ingredients

Sodium sulphate

troclosene sodium, dihydrate

# Pennsylvania Right To Know

Ingredients

Sodium chloride

Sodium sulphate

troclosene sodium, dihydrate

# **New Jersey Right To Know**

Ingredients

Sodium chloride

Sodium sulphate

troclosene sodium, dihydrate

# California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer,

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Product number 116899 Version1.1

Product name Ammonium Test Method: reflectometric with test strips and reagents 5.0 - 20.0

mg/l NH₄⁺ Reflectoquant®

NH₄-2

birth, or any other reproductive defects.

### **Notification status**

TSCA: Not Listed on TSCA inventory. For Research and Development

Use only. Not For Manufacturing or Commercial Purposes.

Ingredients

troclosene sodium, dihydrate

DSL: This product contains one or several components that are not on

the Canadian DSL nor NDSL.

Ingredients

troclosene sodium, dihydrate

#### **SECTION 16. Other information**

### Training advice

Provide adequate information, instruction and training for operators.

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

H411 Toxic to aquatic life with long lasting effects.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date07/22/2013

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

All rights reserved. Millipore and the "M" Mark are registered trademarks of Merck KGaA, Darmstadt, Germany.