

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

Revision Date 07/19/2013

Version1.1

SECTION 1.Identification

Product identifier

Catalog No. 114758

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l

Cr 0.02 - 6.69 mg/l CrO₄ Spectroquant®

Cr-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-Labeling

Not a dangerous substance according to GHS.

OSHA Hazards

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

Other hazards

None known.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 30 %

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

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

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.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Consult doctor in the event of any complaints.

Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

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

Mixture with combustible ingredients.

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of:

nitrogen oxides, Sulfur oxides

Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

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

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

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 +15°C to +25°C (+59°F to +77°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.

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.

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

SECTION 9. Physical and chemical properties

Physical state solid

Color white

Odor odorless

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.

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.1,000 - 1,150 kg/m³

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

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

the constituents may react with:

Strong oxidizing agents

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

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

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

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

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)

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

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

Additional ecological information

Discharge into the environment must be avoided.

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.

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 III
Environmentally hazardous ---

Air transport (IATA)

UN number UN 3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group III
Environmentally hazardous -Special precautions for user

Sea transport (IMDG)

UN 3316
Proper shipping name CHEMICAL KIT

Class 9
Packing group III

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

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

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

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

Pennsylvania Right To Know

Ingredients

1,5-diphenylcarbazide

Sodium chloride

Sodium sulphate

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-1

New Jersey Right To Know

Ingredients
1,5-diphenylcarbazide
Sodium chloride
Sodium sulphate

California Prop 65 Components

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

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 Date07/19/2013

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.



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

Revision Date 07/19/2013

Version1.1

SECTION 1.Identification

Product identifier

Catalog No. 114758

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l

Cr 0.02 - 6.69 mg/l CrO₄ Spectroquant®

Cr-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

Corrosive to Metals, Category 1, H290

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

GHS-Labeling

Hazard pictograms



Signal Word Warning

Hazard Statements

H290 May be corrosive to metals.

OSHA Hazards

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

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature Mixture of inorganic and organic compounds

Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

dimethyl sulphoxide (>= 70 % - < 90 %)

67-68-5

phosphoric acid (>= 1 % - < 5 %)

7664-38-2

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: immediately make victim drink water (two glasses at most). Subsequently administer: activated charcoal (20 - 40 g in 10% slurry). Consult a physician.

Most important symptoms and effects, both acute and delayed

irritant effects, Nausea, Headache, Tiredness, CNS disorders

Indication of any immediate medical attention and special treatment needed

Laxative: Sodium sulfate (1 tablespoon/1/4 I water). Get medical attention.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO2), Foam, Dry powder

Unsuitable extinguishing media

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

Special hazards arising from the substance or mixture

Combustible.

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of:

Sulfur oxides, Oxides of phosphorus

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 substance contact. Do not breathe vapors, aerosols. 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® H*, Merck Art. No.

101595). 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 +15°C to +25°C (+59°F to +77°F).

The data applies to the entire pack.

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Ingredients

Basis Threshold Remarks Value limits phosphoric acid (7664-38-2) **ACGIH** Time Weighted Average 1 mg/m³ (TWA): Short Term Exposure 3 mg/m³ Limit (STEL): NIOSH/GUIDE Recommended 1 mg/m³ exposure limit (REL): Short Term Exposure 3 mg/m³ Limit (STEL): OSHA_TRANS PEL: 1 mg/m³ 3 mg/m³

71A Short Term Exposure

Limit (STEL):

Time Weighted Average 1 mg/m³

(TWA):

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

Change contaminated clothing. Application of skin- protective barrier cream recommended. 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 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

colorless Color

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

Odor odorless

Odor Threshold not applicable

pH at 68 °F (20 °C)

acidic

Melting point No information available.

Boiling point No information available.

Flash point 203 °F (95 °C)

Method: open cup (Dimethylsulfoxide)

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit 1.8 %(V)

(Dimethylsulfoxide)

Upper explosion limit 63.0 %(V)

(Dimethylsulfoxide)

Vapor pressure 0.6 hPa

at 68 °F (20 °C) (Dimethylsulfoxide)

Relative vapor density No information available.

Relative density ca.1.07 g/cm³

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.

Ignition temperature 572 - 576 °F (300 - 302 °C)

(Dimethylsulfoxide)

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

Corrosion May be corrosive to metals.

SECTION 10. Stability and reactivity

Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability

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

Possibility of hazardous reactions

Exothermic reaction with:

Risk of explosion with:

acid halides, Sulfur trioxide, Sulfur oxides, Strong oxidizing agents, Oxides of phosphorus, nonmetallic halides, Nitric acid, silver salt, silicon compounds, nitrogen dioxide, potassium permanganate, Ketones, Halogenated hydrocarbon, oxyhalogenic compounds, Alkali metals, Potassium, sodium, iron(III) compounds, hydrides, nitrates, halogen-halogen compounds, perchloric acid, perchlorates, chlorates, nonmetallic oxyhalides

Conditions to avoid

Strong heating.

Incompatible materials

various plastics, Metals

Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

Information on toxicological effects

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

Eyes

Respiratory system

Skin irritation

Possible damages: slight irritation

Eye irritation

Possible damages: slight irritation

Specific target organ systemic toxicity - single exposure

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

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

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

After uptake:

CNS disorders, Nausea, Tiredness, Headache

Possible damages:

Damage to:

Liver, Kidney

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

Ingredients

dimethyl sulphoxide

Acute oral toxicity

LD50 rat: 14,500 mg/kg (RTECS)

Acute dermal toxicity

LD50 rat: 40,000 mg/kg (RTECS)

Sensitization

Sensitization test: guinea pig

Result: negative

(IUCLID)

Germ cell mutagenicity Genotoxicity in vitro

Ames test Result: negative (IUCLID)

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

Mutagenicity (mammal cell test): chromosome aberration.

Result: negative

(National Toxicology Program)

Carcinogenicity

No indication of carcinogenic activity. (IUCLID)

Teratogenicity

Did not show teratogenic effects in animal experiments. (IUCLID)

phosphoric acid

Acute oral toxicity

LD50 rat: 1,530 mg/kg (IUCLID) (Regulation (EC) No 1272/2008, Annex VI)

Acute inhalation toxicity

LC50 rat: > 0.85 mg/l; 1 h (RTECS)

Acute dermal toxicity

LD50 rabbit: 2,740 mg/kg (IUCLID)

Skin irritation

rabbi

Result: Causes burns.

(IUCLID)

Eye irritation

rabbit

Result: Causes burns.

(IUCLID)

Sensitization

Patch test: human

Result: negative (IUCLID)

(----/

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Result: negative

(IUCLID)

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.

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

Ingredients

dimethyl sulphoxide

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout): 38,500 mg/l; 96 h (ECOTOX Database)

Toxicity to bacteria

EC10 Pseudomonas putida: 7,100 mg/l; 16 h (IUCLID)

EC50 activated sludge: 10 - 100 mg/l; 30 min (IUCLID)

Biodegradability 3.1 %; 14 d

OECD Test Guideline 301C Not readily biodegradable.

phosphoric acid

Toxicity to fish

LC50 Gambusia affinis (Mosquito fish): 138 mg/l; 96 h (External MSDS)

Toxicity to bacteria

EC50 activated sludge: 270 mg/l(IUCLID)

Biodegradability

Does not cause biological oxygen deficit.

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 III
Environmentally hazardous --

Air transport (IATA)

UN 3316
Proper shipping name CHEMICAL KIT

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

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

Sea transport (IMDG)

UN number UN 3316

Proper shipping name CHEMICAL KIT

Class 9
Packing group III
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
Highly toxic by inhalation
Harmful if swallowed.
Corrosive to skin
Corrosive to eyes

Corrective by inhelation

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.

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

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

phosphoric acid

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

Ingredients

phosphoric acid

DEA List I

Not listed

DEA List II

Not listed

US State Regulations

Massachusetts Right To Know

Ingredients

phosphoric acid

Pennsylvania Right To Know

Ingredients

dimethyl sulphoxide

water

phosphoric acid

New Jersey Right To Know

Ingredients

dimethyl sulphoxide

water

phosphoric acid

California Prop 65 Components

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

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

Product number 114758 Version1.1

Product name Chromate Test (chromium VI) Method: photometric 0.010 - 3.00 mg/l Cr 0.02 -

6.69 mg/l CrO₄ Spectroquant®

Cr-2

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.

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 Date07/19/2013

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.