

# SAFETY DATA SHEET

Version 8.12 Revision Date 09/07/2024 Print Date 09/08/2024

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Water Standard Oven 1% Certified Reference

Material for Karl Fischer oven technique

Aquastar®

Product Number : 1.88054 Catalogue No. : 188054 Brand : Millipore

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

Identified uses : Reagent for analysis

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

# 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

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# 2.2 GHS Label elements, including precautionary statements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Component		Classification	Concentration		
Disodium wolframate dihydrate					
CAS-No.	10213-10-2	Acute Tox. 4; Aquatic	>= 5 - < 10		
EC-No.	236-743-4	Acute 3; H302, H402	%		

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

riacol, shorren

# In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

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

# 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

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

No data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

## Suitable extinguishing media

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

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## Unsuitable extinguishing media

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

# 5.2 Special hazards arising from the substance or mixture

Sulfur oxides

Potassium oxides

Sodium oxides

Tungsten oxide

Not combustible.

Fire may cause evolution of:

Sulfur oxides

Ambient fire may liberate hazardous vapours.

# **5.3** Advice for firefighters

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

# 5.4 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**

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 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.

# 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

# **Storage conditions**

Tightly closed. Dry.

Recommended storage temperature see product label.

#### Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

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# 7.3 Specific end use(s)

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

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Ingredients with workplace control parameters

Ingredients with	TTO: Npiace		4.11.000.0	
Component	CAS-No.	Value	Control parameters	Basis
Disodium wolframate dihydrate	10213-10-	TWA	3 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		STEL	3 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

# 8.2 Exposure controls

# **Appropriate engineering controls**

Change contaminated clothing. Wash hands after working with substance.

# **Personal protective equipment**

# **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other

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substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

# **Respiratory protection**

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Recommended Filter type: Filter type P2

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

required when dusts are generated. required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

# **Control of environmental exposure**

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

a) Appearance Form: solid

Color: white

b) Odor odorless

c) Odor Threshold Not applicable d) pH No data available e) Melting No data available

point/freezing point

f) Initial boiling point No data available

and boiling range

q) Flash point ()Not applicable h) Evaporation rate No data available

Flammability (solid, i)

gas)

The product is not flammable.

Upper/lower No data available j)

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flammability or explosive limits

k) Vapor pressure No data available
l) Vapor density No data available
m) Density No data available
Relative density No data available

n) Water solubility soluble

o) Partition coefficient: No data available

n-octanol/water

p) Autoignition Not applicable temperature

Docompositio

q) Decomposition ca.100 °C (ca.212 °F) - Elimination of water of crystallization temperature

r) Viscosity No data available

s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

# 9.2 Other safety information

Bulk density 460 kg/m3

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No data available

## 10.2 Chemical stability

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

# 10.3 Possibility of hazardous reactions

Risk of explosion with:

sodium acetylidene

Magnesium

smelt

with

Aluminum

## 10.4 Conditions to avoid

no information available

#### 10.5 Incompatible materials

No data available

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Mixture**

# **Acute toxicity**

Acute toxicity estimate Oral - 2,346 mg/kg

(Calculation method)

Acute toxicity estimate Inhalation - 4 h - 57.76 mg/l - dust/mist(Calculation method)

Acute toxicity estimate Dermal - 2,500 mg/kg (Calculation method)

## Skin corrosion/irritation

No data available

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

No data available

# 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.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

# Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

## 11.2 Additional Information

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

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## Components

# Disodium wolframate dihydrate

# **Acute toxicity**

Oral: absorption

LD50 Oral - Rat - male and female - 1,453 mg/kg

(OECD Test Guideline 401)

The value is given in analogy to the following substances: Sodium tungstate LC50 Inhalation - Rat - male and female - 4 h - > 5.01 mg/l - dust/mist

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

# Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: slight irritation (OECD Test Guideline 405)

# Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

The value is given in analogy to the following substances: Sodium tungstate

# **Germ cell mutagenicity**

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma test

Result: negative Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 474 Species: Mouse - male - Bone marrow

Result: negative Carcinogenicity

No data available

# Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

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# **Aspiration hazard**

No data available

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Mixture**

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 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available

# **Components**

# Disodium wolframate dihydrate

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 200 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

and other aquatic invertebrates

static test - Daphnia magna (Water flea) - > 163 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green

algae) - > 17.7 mg/l - 72 h (OECD Test Guideline 201)

Remarks: The value is given in analogy to the following

substances: Sodium tungstate

static test EC10 - Pseudokirchneriella subcapitata (green algae)

- 5.76 mg/l - 72 h

(OECD Test Guideline 201)

Remarks: The value is given in analogy to the following

substances: Sodium tungstate

Toxicity to bacteria  $\,$  static test - activated sludge - > 1,000 mg/l - 30 min

(OECD Test Guideline 209)

Toxicity to flow-through test NOEC - Danio rerio (zebra fish) - > 9.8 mg/l

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fish(Chronic toxicity) - 38 d

(OECD Test Guideline 210)

Remarks: The value is given in analogy to the following

substances: Sodium tungstate

Toxicity to daphnia and other aquatic

static test NOEC - Daphnia magna (Water flea) - >= 44.2 mg/l

- 21 d

toxicity)

invertebrates(Chronic (OECD Test Guideline 211)

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

# **SECTION 14: Transport information**

# DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

## **IATA**

Not dangerous goods

# **Further information**

Not classified as dangerous in the meaning of transport regulations.

# **SECTION 15: Regulatory information**

# **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

# SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

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#### **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.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### **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.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

# **US State Regulations**

# **Massachusetts Right To Know**

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

# **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

## **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

# **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

# The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

## **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## **SECTION 16: Other information**

## **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture

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