

**4lfa** *4***esar** 

Page 1/4 Printing date 11/24/2015 Reviewed on 03/31/2009

#### 1 Identification

Product identifier

Product name: Carbon, plasma standard solution, Specpure ®, C 1000 µg/ml

Stock number: 13844

Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: tech@alfa.com
www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

## 2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

#### Label elements

GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled

Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 0
Flammability = 0 Flammability = 0

Flammability = 0

Physical Hazard = 0

## Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable.

## 3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description:

Carbon, plasma standard solution, Specpure ®, C 1000 µg/ml

#### 4 First-aid measures

## Description of first aid measures

**General information** No special measures required. After inhalation Seek medical treatment in case of complaints.

After skin contact Generally the product does not irritate the skin.

After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing If symptoms persist consult doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:

Advice for firefighters Protective equipment: No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Prevention of secondary research the process are secondary research.

Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## 7 Handling and storage

Handling
Precautions for safe handling
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires: The product is not flammable

No special measures required.

(Contd. on page 2)

# Product name: Carbon, plasma standard solution, Specpure ®, C 1000 µg/ml

(Contd. of page 1)

Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Water reacts with many metals to give hydrogen, often violently. Water is also incompatible with many reactive organic and inorganic chemicals.

Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **Specific end use(s)** No further relevant information available.

#### 8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters Components with limit values that require monitoring at the workplace:

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Acetic acid
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ACGIH TI V 10; 15-STEL Austria MAK Belgium TWA 10; 15-STEL Denmark TWA Finland TWA 10; 15-STEL (skin) 10 10 mg/m3; 20 mg/m3-STEL

France VLE
France VLE
Germany MAK
10
Hungary TWA
10 mg/m3; 20 n
Japan OEL
10
Korea TLV
10; 15-STEL
Netherlands MAC-TGG 25 mg/m3
Norway TWA
10
5 ma/m3; 35 mc Norway TWA Poland TWA Russia TWA 10 5 mg/m3; 35 mg/m3-STEL 10; 5 mg/m3-STEL (skin) 5; 10-KTV 10; 20-KZG-W /A 10; 15-STEL -STEI Sweden NGV Switzerland TWA SMITZERIAND TWA 10; 20 United Kingdom TWA 10; Russia 10-STEL Denmark 10-STEL Finland 10-STEL Hungary

10 mg/m3-STEL 5 mg/m3 10-STEL Poland TWA Sweden USA PEL Additional information: No data

Exposure controls Personal protective equipment

General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Not required.
Protection of hands: Not required.

Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses

**Body protection:** Protective work clothing.

## 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance: Form:

Liguid Color: Clear

Not determined Odor: Odor threshold: Not determined pH-value: Not determined.

Change in condition

Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 100 °C (212 °F) (approx) Not determined

Flash point: Flammability (solid, gaseous) Not determined Not applicable. Not determined Ignition temperature:
Decomposition temperature: Not determined Auto igniting: Not determined

Danger of explosion: Explosion limits: Lower: Product does not present an explosion hazard.

Not determined Upper: Not determined Vapor pressure: Density at 20 °C (68 °F): Relative density Not determined

1 g/cm³ (8.345 lbs/gal) (approx) Not determined.

Vapor density Evaporation rate Solubility in / Miscibility with Not determined. Not determined. Fully miscible Partition coefficient (n-octanol/water): Not determined.

Viscosity: dynamic: kinematic: Not determined. Not determined.

Other information No further relevant information available.

Page 3/4 Printing date 11/24/2015 Reviewed on 03/31/2009

## Product name: Carbon, plasma standard solution, Specpure ®, C 1000 μg/ml

(Contd. of page 2)

## 10 Stability and reactivity

Reactivity No information known.

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions Water reacts violently with alkali metals. Reacts with alkaline earth metals.

Water reacts with many metals to give hydrogen, often violently. Water is also incompatible with many reactive organic and inorganic chemicals. Conditions to avoid No further relevant information available. Incompatible materials: No information known.

Hazardous decomposition products:

Nitrogen oxides Sulfur dioxide

#### 11 Toxicological information

Information on toxicological effects

Acute toxicity: No effects known.

LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: No irritant effect. Eye irritation or corrosion: No irritant effect. Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity: No effects known.

Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity:

Acetic acid is corrosive and causes burns, lachrymation and conjunctivitis. It may cause skin ulcers and dermatitis. Inhalation causes damage to the lining of the nose, throat and lungs. Ingestion may cause severe injury leading to death. Severity of symptoms is a function of concentration.

Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Do not allow material to be released to the environment without proper governmental permits.

Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

### 13 Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

**UN-Number** 

14 Transport information

Not a hazardous material for transportation.

DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA None None

None

Transport hazard class(es)

DOT, ADR, IMDG, IATA

Class

Packing group DOT, IMDG, IATA

Environmental hazards:

None Not applicable.

Special precautions for user Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

Marine Pollutant (DOT): No

## 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable

Hazard statements Not applicable

National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

(Contd. on page 4)

## Product name: Carbon, plasma standard solution, Specpure ®, C 1000 µg/ml

All components of this product are listed on the Canadian Domestic Substances List (DSL).

(Contd. of page 3)

SARA Section 313 (specific toxic chemical listings)

Carbon, plasma standard solution, Specpure ®, C 1000 µg/ml

California Proposition 65

California Proposition 65
Prop 65 - Chemicals known to cause cancer Substance is not listed.
Prop 65 - Developmental toxicity Substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.
Information about limitation of use: For use only by technically qualified individuals.
Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Abstracts Service (division of the American Chemical Society)
HIMIS: Hazardous Materials Information System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal dose, 50 percent
LD50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
LD50: Lethal dose, 50 percent
VPVB: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
ITP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA