

Revision date: 08-05-2014

# SAFETY DATA SHEET

## 1. Identification

Product identifier: NEUTRACIT®-2 Caustic Neutralizer

Other means of identification **Product No.:** 4470, 4446

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

**Emergency telephone number:** 

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

# 2. Hazard(s) identification

#### Hazard classification

#### **Health hazards**

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1

#### Label elements

## Hazard symbol:



Signal word: Danger

**Hazard statement:** Causes serious eye irritation.

Causes skin irritation.

#### **Precautionary statement**

**Prevention:** Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands thoroughly after handling. Do not get in eyes, on skin, or on

clothing.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call



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a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
CITRIC ACID		77-92-9	65 - 80%
PERLITE		93763-70-3	9%
SILICA, AMORPHOUS		7631-86-9	2%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if

you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

**Symptoms:** Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

**Treat symptomatically.** Symptoms may be delayed.

## 5. Fire-fighting measures

General fire hazards: Dust may form explosive mixture with air. In case of fire and/or explosion do

not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters SDS US - SDSMIX000070



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Special fire fighting procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

Sweep up and place in a clearly labeled container for chemical waste.

Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** 

Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

**Environmental precautions:** 

Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling:

Avoid inhalation of dust. Wash thoroughly after handling. Avoid contact with eyes. Avoid contact with skin. Avoid dust formation. Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed. Store in cool, dry place. Store in a wellventilated place.

# 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
CITRIC ACID	AN ESL	10 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
	ST ESL	100 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)
PERLITE - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
PERLITE - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
PERLITE - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
PERLITE - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
SILICA, AMORPHOUS	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	6 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Appropriate engineering controls

No data available.



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## Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level.

**Eye/face protection:** Use tight fitting goggles if dust is generated.

Skin protection

**Hand protection:** Wear protective gloves.

Other: Wear suitable protective clothing.

**Respiratory protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.

#### 9. Physical and chemical properties

## **Appearance**

Physical state: Solid

Form: Crystals or powder.

Color: Yellow

Odor: No data available. Odor threshold: No data available. pH: No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: No data available. Flash Point: Not applicable **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

Solubility in water:Slightly SolubleSolubility (other):No data available.Partition coefficient (n-octanol/water):No data available.

Auto-ignition temperature: 1,011 °C

**Decomposition temperature:**No data available. **Viscosity:**No data available.



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# 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

Conditions to avoid: Moisture. Heat, sparks, flames. Avoid dust formation. Contact with

incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Hydrogen fluoride. Metals. Nitrates.

**Hazardous decomposition** 

products:

By heating and fire, toxic vapors/gases may be formed. Oxides of Carbon.

Oxides of sulfur.

## 11. Toxicological information

Information on likely routes of exposure

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May be harmful if inhaled.

**Skin contact:** Causes skin irritation.

**Eye contact:** Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** No data available.

Specified substance(s):

CITRIC ACID LD 50 (Rat): 6,730 mg/kg

LD 50 (Mouse): 5,040 mg/kg

Specified substance(s):

SILICA, AMORPHOUS LD 50 (Rat): > 22,500 mg/kg

LD 50 (Mouse): > 15,000 mg/kg

**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin corrosion/irritation

**Product:** Causes skin irritation.

Serious eye damage/eye irritation

**Product:** Causes serious eye damage.

Respiratory or skin sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.



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## IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

#### Germ cell mutagenicity

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific target organ toxicity - single exposure
Product:
No data available.

Specific target organ toxicity - repeated exposure

**Product:** No data available.

**Aspiration hazard** 

**Product:** Not classified

Other effects: None known.

## 12. Ecological information

#### **Ecotoxicity:**

# Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Aquatic invertebrates

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Aquatic invertebrates

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### Persistence and degradability

**Biodegradation** 

**Product:** There are no data on the degradability of this product.

**BOD/COD** ratio

**Product:** No data available.

#### Bioaccumulative potential

**Bioconcentration factor (BCF)** 



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Floudet.	No data available on bloaccumulation.		
Partition coefficient n-octan Product:	ol / water (log Kow) No data available.		
Mobility in soil:	No data available.		
Other adverse effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
13. Disposal considerations			
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.		
Contaminated packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.		
14. Transport information			
DOT Not regulated.			
IMDG Not regulated.			
IATA			
Not regulated.			
15. Regulatory information			
US federal regulations			
TSCA Section 12(b) Export Noting US. OSHA Specifically Regula None present or none present	ted Substances (29 CFR 1910.1001-1050)		
CERCLA Hazardous Substand None present or none present			
Superfund amendments and r	eauthorization act of 1986 (SARA)		
Hazard categories			
X Acute (Immediate) Cr	nronic (Delayed) Fire Reactive Pressure Generating		
SARA 302 Extremely haza None present or nor	rdous substance ne present in regulated quantities.		
SARA 304 Emergency release notification  None present or none present in regulated quantities.			



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#### SARA 311/312 Hazardous chemical

Chemical identityThreshold Planning QuantityCITRIC ACID500 lbsSILICA, AMORPHOUS500 lbs

#### SARA 313 (TRI reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US** state regulations

## **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

#### **US. New Jersey Worker and Community Right-to-Know Act**

PERLITE Listed SILICA, AMORPHOUS Listed

#### US. Massachusetts RTK - Substance List

PERLITE Listed SILICA, AMORPHOUS Listed

#### US. Pennsylvania RTK - Hazardous Substances

PERLITE Listed SILICA, AMORPHOUS Listed

#### **US. Rhode Island RTK**

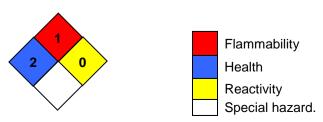
PERLITE Listed

#### **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory Japan (ENCS) List: Not in compliance with the inventory. China Inv. Existing Chemical Substances: Not in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory. Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory **US TSCA Inventory:** Not in compliance with the inventory. New Zealand Inventory of Chemicals: On or in compliance with the inventory Not in compliance with the inventory. Japan ISHL Listing: Japan Pharmacopoeia Listing: Not in compliance with the inventory.

# 16.Other information, including date of preparation or last revision

## NFPA Hazard ID





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**Issue date:** 08-05-2014

**Revision date:** No data available.

Version #: 1.0

Further information: No data available.

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