

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

Avantor Performance Materials, Inc.
3477 Corporate Parkway, Suite 200 Center Valley, PA 18034
Center Valley, PA 18034
Customer Service: 855-282-6867
Environmental Health & Safety 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.

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 None. result in GHS classification:

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%
* 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/effec	ts, acute and delayed	
Symptoms:	Irritating to eyes, respiratory system and skin.	
Indication of immediate medical attention and special treatment needed		
Treatment:	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 ar	ad precautions for firefighters	

Special protective equipment and precautions for firefighters SDS_US - SDSMIX000070



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 measure	S
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 well- ventilated 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)

No data available.



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 explo	sive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	Slightly Soluble
Solubility (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.



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 Ingestion:	exposure 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 irritatio Product:	n Causes serious eye damage.
Respiratory or skin sensitizatior Product:	Not a skin sensitizer.
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.



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 - s Product:	ingle exposure 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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Product:	No data available on bioaccumulation.
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 Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities. CERCLA Hazardous Substance List (40 CFR 302.4): None present or none present in regulated quantities. Superfund amendments and reauthorization act of 1986 (SARA) **Hazard categories** X Acute (Immediate) Chronic (Delayed) Fire **Pressure Generating** Reactive SARA 302 Extremely hazardous substance None present or none present in regulated quantities. SARA 304 Emergency release notification None present or none present in regulated quantities.



SARA 311/312 Hazardous chemical

Chemical identity	Threshold Planning Quantity
CITRIC ACID	500 lbs

SILICA, AMORPHOUS	500 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

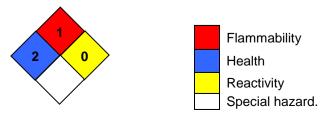
US. Rhode Island RTK PERLITE Listed

Inventory Status:

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

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

NFPA Hazard ID





Issue date:	08-05-2014
Revision date:	No data available.
Version #:	1.0
Further information:	No data available.
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