

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

Identification of the substance or mixture

Product code K0502COMPONENTC
Product name Neutralization Solution

Company/undertaking identification**Manufacturer/Supplier**

Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
LT-02241 Vilnius
Lithuania
Tel.: +370 5 2602131
Fax.: +370 5 2602142

Emergency telephone number

For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident), call
CHEMTREC Domestic North America: 1-800-424-9300 (24 hours)
CHEMTREC International: 1-703-527-3887 (collect calls accepted)

Country specific Emergency

Number (if available):

Use as laboratory reagent. Scientific research and development.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
WARNING

**Health hazards**

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

Physical hazards

Not Hazardous

Hazard Statements

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H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary Statements

Prevention

P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P270 - Do not eat, drink or smoke when using this product

Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P330 - Rinse mouth

Storage

Not Applicable

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Principle Routes of Exposure

Potential Health Effects

eyes	Irritating to eyes.
Skin	Irritating to skin.
inhalation	May cause irritation of respiratory tract.
Ingestion	Harmful if swallowed.

Specific effects

Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	Not Applicable.

Target Organ Effects	None under normal use conditions.
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HMIS

Health	2
Flammability	0
Reactivity	0

SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
Guanidine hydrochloride 50-01-1 (30-60)	50-01-1	200-002-3	30-60

Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.

SECTION 4: First aid measures

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Ingestion	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

H302 - Harmful if swallowed, H315 - Causes skin irritation, H319 - Causes serious eye irritation

Notes to Physician	Treat symptomatically.
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SECTION 5: Firefighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.
Specific hazards arising from the chemical	Not known

SECTION 6: Accidental release measures

Personal precautions	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
Methods for cleaning up	Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling	Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
Storage	Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Guanidine hydrochloride	None	None	None	None

Engineering measures	Ensure adequate ventilation, especially in confined areas.
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Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Impervious gloves.
Eye protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Lightweight protective clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

General information

Form	Liquid
Appearance	Colorless
Odor	odorless
Odor Threshold	Mixture has not been tested
Boiling point / boiling range	°C No data available
Melting point / melting range	°C No data available
flash point	°C No data available
Autoignition Temperature	°C No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Oxidizing properties	Mixture has not been tested
Water solubility	soluble
Upper explosion limit	No data available
Lower explosion limit	No data available
Partition coefficient: n-octanol/water	No data available
Vapor Pressure	No data available
vapor density	No data available
Viscosity	Mixture has not been tested
pH value	No data available

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.
Possibility of hazardous reactions	Hazardous reaction has not been reported
Hazardous decomposition products	No information available.
polymerization	None under normal processing.
Conditions to avoid	None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Guanidine hydrochloride	475 mg/kg	> 2000 mg/kg (Rabbit)	No data available

Principle Routes of Exposure

Potential Health Effects

eyes	Irritating to eyes.
Skin	Irritating to skin.
inhalation	May cause irritation of respiratory tract.
Ingestion	Harmful if swallowed.

Carcinogenic effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	No information available.

Target Organ Effects	None under normal use conditions
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SECTION 12: Ecological information

Ecotoxicity	No information available.
Mobility	see log Pow.
Biodegradation	No information available.
Bioaccumulation	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Guanidine hydrochloride					logPow<=-1.7

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None
Environmental hazards	None

SECTION 15: Regulatory information

Component	US TSCA
Guanidine hydrochloride 50-01-1 (30-60)	Listed

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D2B - Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision

SDS sections updated.

Use as laboratory reagent. Scientific research and development.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Safety Data Sheet