

Version: 2019

<u>Date Updated:</u> September 12, 2019

### SECTION 1. - - - - - PRODUCT AND COMPANY IDENTIFICATION - - - - - -

Product Name Guanidine thiocyanate

Product Code(s)

GB0244/GDR0244-MBG

Recommended Use

For Laboratory Research Use Only

Not for Human or Animal Drug Use

# SECTION 2. ----- HAZARDS IDENTIFICATION -----

#### Classification of the substance or mixture

# GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412

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

# GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

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

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

### SECTION 3. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Chemical Name	EC No.	CAS-No	Weight %
Guanidinium thiocyanate	209-812-1	593-84-0	95-100

### SECTION 4. ----- FIRST-AID MEASURES-----

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

# If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# SECTION 5. ----- FIRE FIGHTING MEASURES -----

### Suitable extinguishing media

Dry powder

# Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# **Hazardous combustion products**

### Explosion data - sensitivity to mechanical impact

No data available

## Explosion data - sensitivity to static discharge

No data available

### SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

# **Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

## **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the

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Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

# SECTION 7. ------ HANDLING AND STORAGE-----

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

# Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Never allow product to get in contact with water during storage. Do not store near acids.

Light sensitive. Hygroscopic. Store under inert gas.

## SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

### Personal protective equipment

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eve protection

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

# Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

# SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

## **Appearance**

Form solid Colour white

# Safety data

pH 4.8 - 6.0 at 1,420 g/l at 20 °C (68 °F)

Melting Melting point/range: 117 °C (243 °F)

point/freezing point

Flash point No data available Ignition temperature No data available Auto-ignition No data available

temperature

Lower explosion limit No data available
Upper explosion limit No data available
Vapour pressure No data available

Density 1.29 g/cm3 at 20 °C (68 °F) Water solubility 1,420 g/l at 20 °C (68 °F)

Partition coefficient: n-octanol/water

No data available

Relative vapour

No data available

density

Odour odourless

Odour Threshold No data available Evaporation rate No data available

# SECTION 10. ------STABILITY AND REACTIVITY -----

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

No data available

#### **Conditions to avoid**

Contact with acids liberates very toxic gas.

# Materials to avoid

Strong acids, Strong oxidizing agents, Cyanides

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides Other decomposition products - No data available

# SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

# **Acute toxicity**

LD50 Oral - Rat - female - 593 mg/kg (OECD Test Guideline 401)

No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: Corrosive - 4 h (OECD Test Guideline 404)

# Serious eye damage/eye irritation

No data available

# Respiratory or skin sensitisation

No data available

# Germ cell mutagenicity

#### Carcinogenicity

No data available

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

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

## Reproductive toxicity

No data available No data available

# Specific target organ toxicity - single exposure

No data available

Acute oral toxicity - Possible damages:, Nausea, Vomiting

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

### Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption of large quantities: Systemic effects:

ataxia (impaired locomotor coordination), Convulsions, collapse, Coma Cannot be excluded: impaired function of:

Thyroid

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

# SECTION 12. ----- ECOLOGICAL INFORMATION -----

### **Toxicity**

Toxicity to fish LC50 - Poecilia reticulata (guppy) - 89.1 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 42.4 mg/l - 48 h

other aquatic (OECD Test Guideline 202)

invertebrates

# Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

## Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

Harmful to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. No data available

#### FIVUULL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# SECTION 14. ----- TRANSPORT INFORMATION -----

DOT (US)

UN number: 1759 Class: 8 Packing group: III

Proper shipping name: Corrosive solids, n.o.s. (Guanidinium thiocyanate)

Reportable Quantity (RQ): Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1759 Class: 8 Packing group: III EMS-No: F-A, S-B

Proper shipping name: CORROSIVE SOLID, N.O.S. (Guanidinium thiocyanate)

Marine pollutant: No

**IATA** 

UN number: 1759 Class: 8 Packing group: III

Proper shipping name: Corrosive solid, n.o.s. (Guanidinium thiocyanate)

#### SECTION 15. ----- REGULATORY INFORMATION -----

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

# SECTION 16. ----- OTHER INFORMATION-----

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity
Aquatic Chronic Chronic aquatic toxicity
Eye Dam. Serious eye damage
H302 Harmful if swallowed.

H302 + H312 + Harmful if swallowed, in contact with skin or if inhaled.

H332

H312 Harmful in contact with skin.

Further information: no limited for paper copy, just for internal uses.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

# Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issuing Date: 12-Sept-2019

**End of SDS**