Safety Data Sheet

Release 1.0

 Revision
 01/17/2018

 Date of issue
 01/17/2018



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1 Identification of the substance

Identification of the substance

Identification of the

N-Carbamyl-L-glutamic acid

substance

Additional identification Carglumic acid

Biosynth catalog no. C-1805

REACH No. A registration number is not available for this substance as the substance or its

uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

Use of the substance/preparation

Identified uses other biochemicals

Restriction on use not for food or drug use, for laboratory use only

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2 Hazards identification

Possible Hazards (Summary)

Skin

serious irritation (Category 2)

Eyes

serious irritation (Category 2)

Ingestion

acute toxicity (Category 4)

Target Organs

(single exposure), STOT SE3

GHS Labeling

Regulatory List

EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol

GHS07 exclamation mark

Pictogram

()

Signal Word

Warning Warning



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Hazard Statement

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statement

H335

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

May cause respiratory irritation.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove casualty to fresh air and keepat rest in a position comfortable

for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rin

Additional Information

Caution! To the best of our knowledge the toxicological properties of this material have

not been thoroughly investigated.

3 Composition/information on ingredients

Substance related information

Substance name N-Carbamyl-L-glutamic acid

 $\begin{array}{lll} \textit{Synonymes} & \textit{Carglumic acid} \\ \textit{Cas No.} & [1188\text{-}38\text{-}1] \\ \textit{Formula} & \textit{C}_6 \textit{H}_{10} \textit{N}_2 \textit{O}_5 \\ \end{array}$

4 First aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

First Aid: Inhalation

Remove casualty to fresh air and keep warm and atrest. If breathing is irregular or stopped, administerartificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures



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Extinguishing Media

Suitable

foam, dry extinguishing powder, carbon dioxide (CO2), water spray jet

Hazards During Fire-Fighting

toxic fumes

Protective Equipment for Fire-Fighting

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

Personal Precautions

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

Methods for Cleaning or Taking Up

not available

Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage

Handling

Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage

Storage temperature

store at 5°C

Storage Requirements

Keep away from incompatible substances. Keep container tightly closed when not in use.

8 Exposure controles/personal protection

Exposure controles

Industrial Hygiene

Mechanical exhaust required. Safety shower and eye shower.



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Personal Protective Equipment

Respiratory Protection

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties

Form

powder

Phase Transition Solid/Liquid

157 °C

Phase Transition Liquid/Gas

438.1 °C

Molar Mass

190.15 g/mol

Flash Point

218.8 °C

10 Stability and reactivity

Conditions to Avoid

incompatible materials

Substances to Avoid

strong oxidizers

Decomposition Products

nitrogen oxides (NOx), carbon dioxide (CO2), carbon monoxide

11 Toxicological information

Acute Oral Toxicity

LD50 oral, Mouse, 1,000 mg/kg

Other Relevant Toxicity Information

Only selected Registry of toxic effects of chemical substances (RTECS)data is presented here. See actual entry in RTECS for

12 Ecological Information

Biodegradation

no data available

Bioaccumulation

no data available



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Distribution in Environment

no data available

13 Disposal considerations

Advice on Disposal and Packaging

Advice on Disposal

Dissolve or mix the material with a combustible solvent and burn in achemical incinerator equipped with an afterburner and, Dispose of waste according to laws applicable.

Advice on Packaging

not available

14 Transport information

Road Transport (ADR/GGVS)

Not restricted

Air Transport (IATA)

Not restricted

15 Other regulations

Other Regulations

Regulatory List

TCSI

16 Additional information

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