

# Material Safety Data Sheet

Version 1

Revision Date 2022-12-08

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA – NO OEL DATA

## 1. Identification of the substance and of the company/undertaking

### 1.1. Product Identifiers

**Product name:** DNG Cationic  
**Product Number:** PFDNG20422  
**REACH N°:** 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.  
**CAS number:** None

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Laboratory chemical, manufacture of substances.

### 1.3. Details of the supplier of the safety data sheet

**Company:** Polymer Factory Sweden AB  
Teknikringen 48  
SE-114 28 Stockholm, Sweden  
www.polymerfactory.com

### 1.4. Emergency telephone

**Emergency Phone:** (Int.) +46 8 337043 (Emergency Response Center, Sweden)  
In case of acute danger to life, property, or environment :112

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.2. Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. levels of 0.1% or higher.

## 3. Composition/ information on ingredients

### 3.1. Substances

Synonyms: Linear Dendritic Hyperbranched Polyethylene Glycol, 2,2-Bis(hydroxymethyl)propionic acid, Trimethylolpropane tris(3-mercaptopropionate), cysteamine.

## 4. First aid measures

### 4.1 Description of first-aid measures

#### General advice

Consult a physician. Show label and safety data sheet if possible.

#### If inhaled

Move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water.

**In case of eye contact**

Rinse with large amounts of water for 15 minutes. Consult a physician.

**If swallowed**

Rinse mouth with plenty of water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

## 5. Fire-fighting measures

**5.1. Extinguishing media**

**Suitable extinguishing agents:** use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance:**

Carbon dioxide.

**5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus.

**5.4 Further information**

No data available

## 6. Accidental release measure

**6.1. Personal precaution, protective equipment, and emergency procedures**

Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing in dust. For personal protection see section 8.

**6.2. Environmental precautions**

No special environmental precautions required

**6.3. Methods and materials for containment and cleaning up**

Pick up mechanically without creating dust. Keep in closed container for disposal.

**6.4. Reference to other sections**

For disposal see section 13.

## 7. Handling and storage

**7.1 Precautions for safe handling**

Normal standard practises of hygiene are applicable.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage conditions**

Store in closed containers. keep containers closed when not in use. Recommended packaging: glass container

**Storage stability**

Recommended storage temperature -20 °C

**7.3 Storage conditions**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## 8. Exposure control/Personal protection

**8.1 Control parameters**

Ingredients with workplace control parameters. Engineering controls: use ventilation as necessary

**8.2 Exposure controls**

**Personal protective equipment**

**Respiratory:** use gas mask or filter respirator as necessary

**Skin and body:** not applicable but handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes skin and clothing.

**Eye/face protection:** face shield or safety goggles as necessary.

**Other personal protection devices:** eye wash facility and emergency shower Occupational exposure limits (nuisance dust): respiratory limit: 5 mg/m<sup>3</sup> inhalation limit: 10 mg/m<sup>3</sup> These limits are recommended based on studies with analogous compound.

**Control of environmental exposure**  
Do not let product enter drains.

## 9. Physical and chemical properties

### 9.1. Information on general physical and chemical properties:

- a) **Appearance**  
Form: lyophilized powder  
Color: white
- b) **Odor:** No data available
- c) **Odor Threshold:** No data available
- d) **pH:** No data available
- e) **Melting point:** No data available
- f) **Boiling point:** No data available
- g) **Flash point:** No data available
- h) **Solubility in H<sub>2</sub>O:** No data available
- i) **Evaporation rate:** No data available
- j) **Flammability (solid, gas):** No data available
- k) **Upper/lower flammability or explosive limits:** No data available
- l) **Vapor pressure:** No data available
- m) **Vapor density:** No data available
- n) **Density:** No data available
- o) **Water solubility:** No data available
- p) **Partition coefficient:** n-octanol/water No data available
- q) **Autoignition temperature:** No data available
- r) **Decomposition temperature:** No data available
- s) **Viscosity:** No data available
- t) **Explosive properties:** No data available
- u) **Oxidizing:** properties none

### 9.2 Other safety information

No data available.

## 10. Stability and reactivity

- 10.1 **Reactivity**  
No data available
- 10.2 **Chemical stability**  
No data available
- 10.3 **Possibility of hazardous reactions**  
No data available

- 10.4 Conditions to avoid**  
No data available
- 10.5 Incompatible materials**  
Strong oxidizing agents
- 10.6 Hazardous decomposition products**  
Carbon dioxide.

## 11. Toxicological information

- 11.1 Information on toxicological effects**
  - Acute toxicity**  
No data available.
  - Skin corrosion/irritation**  
No data available.
  - Serious eye damage/eye irritation**  
No data available.
  - Respiratory or skin sensitization**  
No data available.
  - Germ cell mutagenicity**  
No data available.
  - Carcinogenicity**  
No data available.
  - Reproductive toxicity**  
No data available.
  - Specific target organ toxicity - single exposure**  
No data available.
  - Specific target organ toxicity - repeated exposure**  
No data available.
  - Aspiration hazard**  
No data available.
- 11.2 Additional Information**  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. Ecological information

- 12.1 Toxicity**  
No data available
- 12.2 Persistence/Degradability**  
No data available
- 12.3 Bioaccumulation**  
No data available
- 12.4 Mobility in soil**  
Soluble in water.
- 12.5 Results of PBT and vPvB assessment**  
No data available
- 12.6 Other adverse effects**  
No data available.

## 13. Disposal considerations

- 13.1 Waste treatment methods**  
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. Observe all federal, state, and local environmental regulations.

## 14. Transport information

<b>14.1 UN number:</b>			
ADR/RID: -	IMDG: -		IATA: -
<b>14.2 UN proper shipping name</b>			
ADR/RID: Not dangerous goods			
IMDG: Not dangerous goods			
IATA: Not dangerous goods			
<b>14.3 Transport hazard class(es)</b>			
ADR/RID: -	IMDG: -		IATA: -
<b>14.4 Packaging group</b>			
ADR/RID: -	IMDG: -		IATA: -
<b>14.5 Environmental hazards</b>			
ADR/RID: no IMDG Marine pollutant: no IATA: no			
<b>14.6 Special precautions for user</b>			
No data available			

## 15. Regulatory information

- 15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture**  
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
- 15.2 Chemical Safety Assessment**  
For this product a chemical safety assessment was not carried out.

## 16. Regulatory information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Polymer Factory Sweden AB shall not be held liable for any damage resulting from handling or from contact with the above product.