according to Regulation (EC) No. 1907/2006



# **GpG**

RNA Dinucleotide ( $5' \rightarrow 3'$ ), Sodium salt

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: GpG Catalog Number: NU-950L

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## 2. HAZARDS IDENTIFICATION

This substance is not classified as dangerous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

Formula:  $C_{20}H_{25}N_{10}O_{12}P$  (free acid) Molecular Weight: 628.45 g/mol (free acid)

CAS-No.: EC number:

Classification:

Concentration: 50 mM - 55 mM

# 4. FIRST AID MEASURES

## If inhaled

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

## In case of skin contact

Wash off with soap and plenty of water.

# In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## 5. FIRE-FIGHTING MEASURES

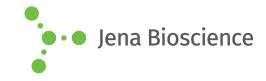
#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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#### 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Avoid dust formation.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

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

Recommended storage temperature: store at -20 °C

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Personal protective equipment

## **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Hand protection**

For prolonged or repeated contact use protective gloves.

## Eye protection

Safety glasses

# Hygiene measures

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

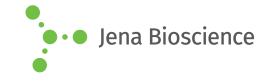
Form: clear aqueous solution, pH 7.5 ±0.5

## Safety data

pH: 7.5 ±0.5

Melting point: no data available
Boiling point: no data available

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Flash point: no data available Ignition temperature: no data available Lower explosion limit: no data available Upper explosion limit: no data available Water solubility: no data available

## 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong oxidizing agents.

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Lithium oxides.

# 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

no data available

#### Irritation and corrosion

no data available

## Sensitisation

no data available

#### Chronic exposure

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.

# Signs and Symptoms of Exposure

Dermatitis

## **Potential Health Effects**

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

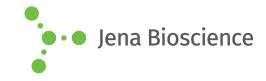
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

Target Organs: Liver, Kidney

# 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

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no data available

## **Ecotoxicity effects**

no data available

## Further information on ecology

no data available

## 13. DISPOSAL CONSIDERATIONS

#### Product

Observe all federal, state, and local environmental regulations.

## Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### ADR/RID

Not dangerous goods

#### **IMDG**

Not dangerous goods

## IATA

Not dangerous goods

# 15. REGULATORY INFORMATION

## Labelling according to EC Directives

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 16. OTHER INFORMATION

#### **Further information**

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