

SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0
Revision Date 04/14/2008
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name

:

8-Hydroxy-2'-deoxyguanosine

Product Number

:

H5653

Brand

:

Sigma

Company

:

Sigma-Aldrich Canada, Ltd
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:

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

:

8-Oxo-7,8-dihydro-2'-deoxyguanosine
8-Oxo-dG

Formula

:

C₁₀H₁₃N₅O₅

Molecular Weight

:

283.24 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
8-Hydroxy-2'-deoxyguanosine			
88847-89-6	-	-	-

3. HAZARDS IDENTIFICATION

WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

HMIS Classification

Health Hazard:

0

Flammability:

0

Physical hazards:

0

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.

4. FIRST AID MEASURES

If inhaled

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

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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

Flammable properties

Flash point

no data available

Ignition temperature

no data available

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for 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

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

Recommended storage temperature: 2 - 8 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

solid

Safety data

pH

no data available

Melting point

no data available

Boiling point

no data available

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)

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.

Genotoxicity in vitro - Human

Sister chromatid exchange

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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

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

TSCA Status

Not On TSCA Inventory

CAS-No.

88847-89-6

8-Hydroxy-2'-deoxyguanosine

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

CAS-No.

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8-Hydroxy-2'-deoxyguanosine

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16. OTHER INFORMATION

Further information

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