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MATERIAL SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION

CHEMICAL NAME: 8-Hydroxy-2'-deoxyguanosine
CHEMICAL FAMILY: Nucleoside

2. COMPOSITION/INGREDIENTS

CAS NUMBER: 88847-89-6
MOLECULAR FORMULA: C₁₀H₁₃N₅O₅
COMPONENTS: Single compound

3. HAZARDS IDENTIFICATION

May be harmful if inhaled and ingested.
May cause eye and skin irritation

4. FIRST AID MEASURES

EYES: Immediately flush eyes with copious amounts of water for at least 15 minutes.
SKIN: Immediately wash skin with soap and copious amounts of water.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
INGESTION: If swallowed, wash out mouth with water provided person is conscious. Call a physician.
OTHER: Wash contaminated clothing before re-use.

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.

FIRE EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
UNUSUAL FIRE/EXPLOSION DATA: Emits toxic fumes under fire conditions.

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

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

Recommended storage temperature: 2 - 8 °C

8. EXPOSURE CONTROLS/EMPLOYEE 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 solid

Safety data

pH:	Not available
Melting point :	Not available:
Boiling point :	Not available
Flash point :	Not available:
Ignition temperature :	Not available
Lower explosion limit :	Not available
Upper explosion limit :	Not available
Water solubility :	Practically insoluble

10. STABILITY & REACTIVITY

CONDITION TO AVOID :	Sunlight, heat
INCOMPATIBILITY(MATERIAL TO AVOID) :	Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS :	Carbon monoxide, nitrogen oxides, may be formed.
HAZARDOUS POLYMERIZATION :	Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA :	LD50(ip,r, rat): >800mg/kg(ADTEAS 3,181,1968)
IRRITATION DATA :	Not available

MUTATION DATA : DNA inhibition; hamster; lung; 1mmol/L(BICMBE 64,809,1982)
Cytogenetic analysis; hamster; fibroblast;
500µmol/L(CYTOAN 49,667,1984)

REPRODUCTIVE EFFECTS DATA : Not available

TUMORIGENIC DATA : Not available

ADDITIONAL INFORMATION ;

NTP : Not listed

IARC : Not listed

OSHA : Not listed

ACGIH :Not listed

12. ECOLOGICAL INFORMATION

Data not yet 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

Caution - substance not yet tested completely.

16. OTHER INFORMATION

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