**SIGMA-ALDRICH**

**Material Safety Data Sheet**

**Version 3.0**
**Revision Date 12/25/2003**
**Print Date 09/24/2003**

1. **PRODUCT AND COMPANY IDENTIFICATION**
   - **Product name**: NBQX disodium salt hydrate
   - **Product Number**: N183
   - **Brand**: Sigma
   - **Company**: Sigma-Aldrich
     3050 Spruce Street
     SAINT LOUIS MO 63103
     USA
   - **Telephone**: +1 800-325-5832
   - **Fax**: +1 314-776-6955

2. **COMPOSITION/INFORMATION ON INGREDIENTS**
   - **Synonyms**: 1,2,3,4-Tetrahydro-6-nitro-2,3-dioxo-benzof[f]quinoline-7-sulfonamidesodium salt hydrate
     FG 9202/disodium salt hydrate
   - **Formula**: C_{12}H_{14}N_{4}Na_{2}O_{6}S \cdot xH_{2}O
   - **Molecular Weight**: 380.24 g/mol

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<tr>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Concentration</th>
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3. **HAZARDS IDENTIFICATION**
   - **Emergency Overview**
     - **OSHA Hazards**: Irritant
   - **HMIS Classification**
     - **Health Hazard**: 2
     - **Flammability**: 0
     - **Physical hazards**: 0
   - **NFPA Rating**
     - **Health Hazard**: 2
     - **Fire**: 0
     - **Reactivity Hazard**: 0
   - **Potential Health Effects**
     - **Inhalation**: May be harmful if inhaled. Causes respiratory tract irritation.
     - **Skin**: May be harmful if absorbed through skin. Causes skin irritation.

4. **FIRST AID MEASURES**
   - **General advice**: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
   - **In case of skin contact**: Wash off with soap and plenty of water. Consult a physician.
   - **In case of eye contact**: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
   - **If swallowed**: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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**
     - Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
   - **Environmental precautions**
     - Do not let product enter drains.
   - **Methods for cleaning up**
     - Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. **HANDLING AND STORAGE**
   - **Handling**
     - Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
     - 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.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves.

Eye protection
Safety glasses

Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form solid

Safety data

pH n/a data available
Marring point n/a data available
Boiling point n/a data available
Flash point n/a data available
Ignition temperature n/a data available
Lower explosion limit n/a data available
Upper explosion limit n/a data available
Water solubility n/a 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), Sulphur oxides, Sodium 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Ingestion May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

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. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

no data available
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards
Irritant

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

CAS-No.

NBOX disodium salt hydrate

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No.       Revision Date

NBOX disodium salt hydrate

New Jersey Right To Know Components

CAS-No.       Revision Date

NBOX disodium salt hydrate

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further Information
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