

Material Safety Data Sheet

Version: 00

Revision Date: 2016.02.24

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name : NaBr
Catalog Number : ON-107
Brand : Hongene
CAS-No. : 7647-15-6

1.2 Identification of other methods

Formal Name : NaBr

1.3 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

1.4 Details of the supplier of the safety data sheet

Company : Hongene Biotech
Room 709, Building 6, 333 Gui Ping Road
Shanghai, China. 200233.
Telephone : +86-21-6475-7213
Fax : +86-21-6470-0613
Email : info@hongene.com

1.5 Emergency telephone number

Emergency Phone # : +86-21-33582880

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to the United Nations GHS (Fourth Edition) Regulations,

This product belongs to risk categories and tags elements.

Risk Categories

Physical Hazards: Not classified

Health Hazards : Acute toxicity-oral	Category 4
Skin corrosion/Stimulation	Category 2
Severe ocular injury/Eye irritation	Category 2A
Specific target organ toxicity-Single exposure; Respiratory tract irritation	Category 3

2.2 GHS Label elements, including precautionary statements

Pictograms:



Signal Words

Warning

Risk Description

H302	Harmful if swallowed
H315	Causes skin irritation
H319	May cause irritation, redness and pain
H335	May cause irritation to the respiratory tract
Precautionary Statements	
Preventive Measures	
P221	Take all precautions to avoid mixed with strong acids ,heavy metal salts,strong oxidants, Reacts explosively with bromine trifluoride.
P261	Avoid breathing dust/smoke/gas/materials/mist/steam/spray.
P264	Wash thoroughly after operation.
P270	Do not eat, drink or smoke when using this product.
P271	Can only be used outdoors or in well ventilated place.
P280	Wear protective gloves/clothing/goggles mask.
Accident Response	
P302+P352	Such as skin contamination: Fully clean with water.
P304+P340	Such as aspiration: The victim would be transferred to the fresh air, keep breathing and maintain a comfortable resting position.
P305+P351+P338	If going into eyes: Carefully rinse a few minutes with water. If wearing contact lenses and can be easily removed, remove contact lenses and continue to wash.
P312	If feeling unwell, call a poison center or the doctor.
P332+P313	If skin irritation occurs, seek medical advice/see the doctor.
P337+P313	If still feel eye irritation, seek medical advice/see the doctor.
P362+P364	Take off contaminated clothing, wash before reuse.
Safety Storage	
P403+P233	Store in a well ventilated place. Keep container closed.
Waste Disposal	
P501	According to place/regional/nation/international regulations disposal packing materials/container.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula: NaBr

Molecular Weight : 102.89 g/mol

EC-No. : 231-599-9

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of 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. Consult a doctor.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.

If swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the label (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. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO_x)

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

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

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Stored in a cool place. Keep container confinement tightly closed. Stored in dry and ventilated place.

Opened container must be sealed again and keep upright placed position to prevent leakage.

7.3 Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protected 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).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form	Form: crystalline Colour: colourless
b) Odour	Odourless
c) Odour Threshold	No data available
d) pH	Neutral (Sodium bromide in aqueous solution)
e) Melting point/freezing point	Melting point/range: 755 °C-lit.
f) Initial boiling point and boiling range	1393 °C at 1013 hPa
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	1 hPa at 806 °C
l) Vapour density	No data available
m) Relative density	3.203(25 °C)
n) Water solubility	116g/100g water, 25 °C(122F)
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Remain stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid moisture and heat.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral-Rat-3500 mg/kg

LD50 Dermal - Rabbit - > 2000 mg/kg

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Eyes – Rabbit

Result: Mild eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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.

Reproductive toxicity

Reproductive toxicity - Rat - Oral

Paternal Effects: Testes, epididymis, sperm duct.

Reproductive toxicity - Rat - Oral

Effects on Fertility: Mating performance (e.g., # sperm positive females per # females mated; # copulations per # estrus cycles).

Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive).

Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: VZ3150000

Effects due to ingestion may include: sedation

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish	mortality NOEC-Oryzias latipes-7800 mg/l - 96 h
	LC50 - Poecilia reticulata (guppy) - 160000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	mortality NOEC - Daphnia magna (Water flea) - 7800 mg/l - 48 h
	EC50 - Daphnia magna (Water flea) - 5800 mg/l - 48 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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.

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No.1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Further information

Copyright Hongene Biotechnology Limited License granted to make unlimited paper copies for internal use only. 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. Hongene and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.hongene.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.