

# SAFETY DATA SHEET

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Product name	<b>Genesis Tru Blu</b>	
Product id	TB-100	
Revision date	23/03/2015	Revision: 1
Supersedes	21/04/2009	

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## 1. Identification of the substance & the company

Chemical name	Sodium bromide
Chemical formula	NaBr
Chemical family	Inorganic bromide
Molecular weight	102.9
Type of product and use	For use in photographic emulsions and developing solutions Brominating agent
Supplier	Blu Water Technology 20 CR 632 Dayton TX, USA Tel: (303) 985-2920 Fax: (303) 985-2956
Emergency Telephone	Chemtrec (800)424-9300

## 2. Hazards identification

Emergency overview	<i>White granular powder or compacted solid, odourless</i>  <i>No adverse effects under recommended use instructions</i>
Potential Health Effects:	
- Eye Contact	Mild irritant
- Skin contact	Not irritant to intact skin. Slightly irritant on prolonged contact to abraded skin.
- Inhalation	Irritant to upper respiratory tract.
- Ingestion	Abdominal pain, nausea and vomiting. May cause falling asleep, muscular incoordination and respiratory depression.
Chronic effects/Carcinogenicity	Repeated skin contact may cause dermatitis.

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### 3. Composition / information on ingredients

Components	CAS No.	Weight %
Sodium Bromide	7647-15-6	98-99.5

### 4. First-aid measures

<b>Eye contact</b>	Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with mild soap and plenty of water for at least 15 minutes. Wash clothing before re-use. Get medical attention if irritation occurs.
<b>Inhalation</b>	In case of dust inhalation or breathing fumes released from heated material, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.
<b>Ingestion</b>	If swallowed, wash mouth thoroughly with plenty of water and give water to drink. Get medical attention immediately. ***** NOTE: Never give an unconscious person anything to drink. *****
<b>Notes to the physician</b>	No specific antidote. Treat symptomatically and supportively.

### 5. Fire - fighting measures

<b>Suitable extinguishing media</b>	Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.
<b>Fire fighting procedure</b>	Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode
<b>Unusual fire and explosion hazards</b>	Will decompose from ca. 800°C releasing poisonous and corrosive fumes of hydrogen bromide and sodium oxide.

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## 6. Accidental release measures

<b>Personal precautions</b>	Wear respirator, chemical safety goggles, rubber gloves and boots
<b>Methods for cleaning up</b>	Sweep up, place in a bag and hold for waste disposal or possible re-use Ventilate area and wash spill site after material pickup is complete.

## 7. Handling and storage

<b>Handling</b>	Avoid bodily contact. Keep containers tightly closed.
<b>Storage</b>	Keep in a well-ventilated place away from incompatible materials (see "materials to avoid").

## 8. Exposure controls / personal protection

### Exposure Limits :

Components	ACGIH-TLV Data	OSHA (PEL) Data
Sodium Bromide 7647-15-6	Not determined	Not determined

**Ventilation requirements**                      Provide adequate ventilation.

**Personal protective equipment:**

- |                                   |   |
|-----------------------------------|---|
| - <b>Respiratory protection</b>   | In case of significant or accidental dust emissions, dust mask should be worn |
| - <b>Hand protection</b>          | Protective gloves   |
| - <b>Eye protection</b>           | Chemical safety goggles   |
| - <b>Skin and body protection</b> | Safety shoes  |

**Hygiene measures**                              Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.  
Safety shower and eye bath should be provided.

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## 9. Physical and chemical properties

Appearance	White granular powder or compacted solid, odourless
Boiling point/range	1390°C
Melting point/range	755°C
Flash point	None
Flammable/Explosion limits	Not flammable
Auto-ignition temperature	Not applicable
Vapour pressure	1 mmHg (806°C)
Evaporation rate (ether=1)	Not applicable under standard conditions
Vapor density	Not applicable under standard conditions
Viscosity	Not applicable
Solubility:	
- Solubility in water	94.6 gr/100ml at 25°C
- Solubility in other solvents	ethanol: 95%: 7 g/100g at 25°C methanol: 14.8 g/100g at 25°C
Specific gravity	3.203
Partition coefficient (n-octanol/water)	Not applicable since this material is almost completely soluble in water.
Explosive properties	Not explosive
Oxidising properties	Not oxidising

## 10. Stability and reactivity

Stability	Stable under normal conditions The powder product tends to cake under normal storage conditions.
Materials to avoid	Strong acids. Heavy metal salts. Strong oxidants. Reacts explosively with bromine trifluoride
Conditions to avoid	Heating above decomposition temperature
Hazardous decomposition products	Hydrogen bromide and sodium oxide
Hazardous polymerization	Will not occur

## 11. Toxicological information

Acute toxicity:	
- Rat oral LD50	4200 mg/kg
- Rabbit dermal LD50	>2000 mg/kg
- Rat dermal LD50	>2000 mg/kg
- Eye irritation (rabbit)	Slightly irritant
- Dermal irritation (rabbit)	Not irritant
Dermal sensitization	Not a sensitizer



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<b>Chronic toxicity</b>	Repeated skin contact may cause dermatitis. Repeated oral intake of bromides (>9 mg/kg body weight/day) may affect the central nervous system. Warning symptoms include mental dullness, slurred speech, weakened memory, apathy, anorexia, constipation, drowsiness and loss of sensitivity to touch and pain.
<b>Mutagenicity</b>	Does not induce DNA repair in cultured human epithelioid cells. Not clastogenic in human lymphocytes metaphase analysis. Not mutagenic by the Ames Test
<b>Carcinogenicity</b>	Not classified by IARC Not included in NTP 12th Report on Carcinogens
<b>Reproductive toxicity</b>	Sodium bromide has been shown to cause embryo-fetal toxicity and malformations in rats at dose levels which also produce maternal toxicity. The No-Observed Effect Level (NOEL) is 100 mg/kg/day, and the Acceptable Daily Intake (ADI) for sodium bromide from food and drinking water in humans is 1 mg/kg/day. Comparable high doses of sodium chloride (table salt) similarly cause malformations, embryo-fetal toxicity, and maternal toxicity in mice.
<b>Teratogenicity</b>	In the oral gavage pre-natal developmental toxicity study in the Rabbit, there were no obvious effects of maternal treatment on the survival, growth or development of the offspring at any of the dosages investigated. The No Observed Effect Level (NOEL) for the developing conceptus was considered to be 250 mg/kg/day.

## 12. Ecological information

<b>Environmental fate</b>	NaBr is an inorganic salt, which fully dissociates in aquatic environment to bromide and sodium ions. It also undergoes degradation in soil to bromide ion (no further degradation or biodegradation will occur).
<b>Aquatic toxicity :</b>	
- 96 Hour-LC50, Fish	>1000 mg/l (rainbow trout) >1000 mg/l (bluegill sunfish)
- 48 Hour-EC50, Daphnia magna	>1000 mg/l
<b>Avian toxicity:</b>	
- Oral LD50, Bobwhite quail	>2250 mg/kg
- Dietary LC50, Mallard duck	>5633 ppm
- Dietary LC50, Bobwhite quail	>5633 ppm

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<b>Toxicity to micro-organisms</b>	Activated sewage sludge respiration inhibition test: EC50 > 1000 mg/l (3 hours). NOEC was 1000 mg/l (3 hours)
<b>Bioaccumulative potential</b>	Bioaccumulation is not likely to occur since this material is highly soluble in water.
<b>Germany, water endangering classes (WGK)</b>	1

### 13. Disposal considerations

<b>Waste disposal</b>	Add into a large vessel containing water and drain into sewer with ample water. Avoid access to streams, lakes or ponds. Observe all federal, state and local environmental regulations when disposing of this material
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### 14. Transportation information

<b>DOT</b>	Not regulated
<b>IMDG</b>	Not regulated
<b>ICAO/IATA</b>	Not regulated

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## 15. Regulatory information

<b>USA</b>	Reported in the EPA TSCA Inventory.
<b>Canada</b>	Listed in DSL
<b>-WHMIS hazard class</b>	D2A very toxic materials
<b>EU</b>	Reported in EINECS
<b>EC No.</b>	231-599-9
<b>Japan</b>	ENCS no. 1-113 ISHL no. 1-113
<b>Australia</b>	Listed in AICS
<b>China inventory</b>	Listed in IECSC
<b>Korea</b>	Listed in ECL (KE-31368)
<b>Philippines</b>	Listed in PICCS

## 16. Other information

<b>GHS</b>	
<b>GHS classification</b>	Not Classified

This data sheet contains changes from the previous version in section(s)  
4, 9, 14

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## Health, Safety & Environment Policy

We will strive to ensure that our operations and products meet the needs of the present global community without compromising the ability of future generations to meet their needs

We accept that the success of our business is dependent on the supply of products and services that will benefit society whilst ensuring human safety and protection of the environment and natural resources

Within the framework of our commitment to the Responsible Care program, we will provide a healthy and safe work environment for employees and will responsibly manage our products at all stages of their life cycle in order to protect human health and the environment whilst maintaining high production standards of operation

## TO MEET THIS COMMITMENT WE WILL:

Comply with or exceed applicable national and international regulatory requirements and other requirements to which we subscribe

Communicate openly and actively encourage dialogue with employees, customers and community concerning our products and operations

Implement documented management systems consistent with and for promotion of the Responsible Care ethics

Develop and supply products that can be manufactured, transported, used and disposed of safely whilst best meeting the needs of our customers

Regularly assess, continually improve and responsibly manage health, safety and environmental risks associated with products and processes throughout their life-cycles

Share knowledge and expertise with others and seek to learn from and incorporate improved practices into our own operations

Educate and train employees, contractors and customers to improve their HSE performance

Communicate up-to-date information to enable our workers, customers and other interested parties to handle our products in a safe and environmentally responsible manner

Endeavor to work with customers, suppliers, distributors and contractors to foster the safe use, transport and disposal of our chemicals

Support Product Stewardship programs in cooperation with customers, distributors and transporters

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*In an event of discrepancy between the contents of this SDS and the English version of it, the English version shall prevail.*

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**End of safety data sheet**