

# SAFETY DATA SHEET

## YELLOW SHOCK & CLEAR

**ALDEN LEEDS**

swimming pool &amp; spa chemicals

**Product name** YELLOW SHOCK & CLEAR, Private label  
**Product id** 1520-1522  
**Date** 28/05/2015

### 1. Identification of the substance & the supplier

**Chemical name** Sodium bromide  
**Chemical formula** NaBr  
**Chemical family** Inorganic bromide  
**Molecular weight** 102.9  
**Type of product and use** Swimming Pool Chemical  
**Supplier** Alden Leeds, Inc..  
55 Jacobus Ave., South Kearny, NJ  
973-589-3544  
**Emergency Telephone** Chemtrec: (800) 424-9300

### 2. Hazards Identification

The consumer variant of this product is labeled in accordance with regulations administered by the consumer product safety commission (CPSC) and the food and drug administration (FDA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration (OSHA) applicable to this SDS differ from the labeling requirements of the CPSC and FDA, and result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

**GHS classification** Not Classified

**Labels and other form of warning** Not classified

### 3. Composition / information on ingredients

| Components     | CAS No.   | Weight % |
|----------------|-----------|----------|
| Sodium Bromide | 7647-15-6 | 98-100   |

### 4. First-aid measures

**Eye contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Skin contact** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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**Inhalation** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion** Call poison control center, or doctor immediately for treatment advice.  
Have person sip a glass of water if able to swallow.  
Do not induce vomiting unless told to do so by the poison control center or doctor.  
Do not give anything by mouth to an unconscious person.

**Most important symptoms and effects, acute or delayed**

None known

**Note to physician** No specific antidote.  
Treat symptomatically and supportively.  
Probable mucosal damage may contraindicate the use of gastric lavage.

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## 5. Fire - fighting measures

**Suitable extinguishing media** Material is not combustible. Use extinguishing media appropriate to surrounding fire conditions.

**Unusual fire and explosion hazards** Will decompose from ca. 800°C releasing poisonous and corrosive fumes of bromine, hydrogen bromide and sodium oxide.

**Fire fighting procedure** Cool containers with water spray. In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

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## 6. Accidental release measures

**Personal precautions** Use dust respirator, rubber gloves and chemical safety goggles

**Methods for cleaning up** Sweep up, place in a bag and hold for waste disposal or possible reuse. Ventilate area and wash spill site after material pickup is complete. Avoid raising dust.

**Environmental precautions** Prevent entry into sewers and watercourses

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## 7. Handling and storage

**Handling** Avoid bodily contact. Keep containers tightly closed.

**Storage** 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<br>7647-15-6 | Not determined | Not determined  |

**Ventilation requirements** Provide adequate ventilation.

### Personal protective equipment:

- **Respiratory protection** In case of significant or accidental dust emissions, dust mask should be worn
- **Hand protection** Protective gloves
- **Eye protection** Chemical safety goggles
- **Skin and body protection** Body covering clothes and boots

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

## 9. Physical and chemical properties

**Appearance** White, odourless, crystalline solid  
**Melting point/range** 755°C  
**Boiling point/range** 1390°C  
**Flash point** None  
**Evaporation rate (ether=1)** Not applicable under standard conditions  
**Flammable/Explosion limits** Not flammable  
**Vapor pressure** 1 mmHg (806°C)  
**Vapor density** Not applicable under standard conditions  
**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  
**Partition coefficient (n-octanol/water)** Not applicable since this material is almost completely soluble in water.

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|                           |                |
|---------------------------|----------------|
| Auto-ignition temperature | Not applicable |
| Viscosity                 | Not applicable |
| Specific gravity          | 3.203          |
| Explosive properties      | Not explosive  |
| Oxidising properties      | Not oxidising  |

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## 10. Stability and reactivity

|                                    |                                                                                                     |
|------------------------------------|-----------------------------------------------------------------------------------------------------|
| Reactivity                         | Reacts explosively with bromine trifluoride .                                                       |
| Stability                          | Stable under normal conditions<br>The powder product tends to cake under normal storage conditions. |
| Possibility of hazardous reactions | Not expected to occur                                                                               |
| Conditions to avoid                | Heating above decomposition temperature.                                                            |
| Materials to avoid                 | Strong acids. Strong oxidants. Heavy metal salts.                                                   |
| Hazardous decomposition products   | Hydrogen bromide and sodium oxide Bromine fumes                                                     |

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## 11. Toxicological information

|                              |                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Likely Routes of Exposure    | Skin<br>Eye contact<br>Inhalation<br>Ingestion                                                                                                                                                                                                                                                                  |
| 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                                                                                                                                                                                                                                                                                                |
| Chronic toxicity             | 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. |

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|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mutagenicity</b>          | Does not induce DNA repair in cultured human epithelioid cells.<br>Not clastogenic in human lymphocytes metaphase analysis.<br>Not mutagenic by the Ames Test.                                                                                                                                                                                                                                                                                               |
| <b>Carcinogenicity</b>       | Not classified by IARC<br>Not included in NTP 13th 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.                                                                                                                                |
| <b>Aspiration hazard</b>     | Not expected to occur                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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## 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)<br>>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                                                                                                                                                                                                         |
| <b>Toxicity to micro-organisms</b>   | Activated sewage sludge respiration inhibition test: EC50 > 1000 mg/l (3 hours).<br>NOEC was 1000 mg/l (3 hours)                                                                                                  |
| <b>Persistence and degradability</b> | Not relevant for inorganic salts                                                                                                                                                                                  |

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|                           |                                                |
|---------------------------|------------------------------------------------|
| Bioaccumulative potential | Not expected to bioaccumulate<br>BCF=0.23-1.41 |
|---------------------------|------------------------------------------------|

|                  |                                  |
|------------------|----------------------------------|
| Mobility in soil | Not relevant for inorganic salts |
|------------------|----------------------------------|

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### 13. Disposal considerations

|                |                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------|
| Waste disposal | Observe all federal, state and local environmental regulations when disposing of this material. |
|----------------|-------------------------------------------------------------------------------------------------|

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| Disposal of Packaging | Dispose of in a safe manner in accordance with local/national regulations. |
|-----------------------|----------------------------------------------------------------------------|

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### 14. Transportation information

|     |               |
|-----|---------------|
| DOT | Not regulated |
|-----|---------------|

|      |               |
|------|---------------|
| IMDG | Not regulated |
|------|---------------|

|           |               |
|-----------|---------------|
| ICAO/IATA | Not regulated |
|-----------|---------------|

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### 15. Regulatory information

|     |                                                                               |
|-----|-------------------------------------------------------------------------------|
| USA | Reported in the EPA TSCA Inventory.<br>This product is registered under FIFRA |
|-----|-------------------------------------------------------------------------------|

|                                                        |                                                                                                                                                                                       |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - Emergency overview in accordance to EPA Master Label | Sodium Bromide-SP (EPA Reg. No. 8622-78)<br>CAUTION<br>Causes eye irritation<br>Harmful if absorbed through skin or swallowed<br>This product is toxic to fish and aquatic organisms. |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|  |                                                                                                                                                                |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Sodium Bromide-COMP (EPA Reg. No. 8622-45)<br>CAUTION<br>Harmful if absorbed through skin or swallowed<br>This product is toxic to fish and aquatic organisms. |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------|

|            |            |
|------------|------------|
| - SARA 313 | Not listed |
|------------|------------|

|        |               |
|--------|---------------|
| Canada | Listed in DSL |
|--------|---------------|

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| -WHMIS hazard class | D2A Very toxic material causing other toxic effects |
|---------------------|-----------------------------------------------------|

|    |                    |
|----|--------------------|
| EU | Reported in EINECS |
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|                                    |                                  |
|------------------------------------|----------------------------------|
| <b>EC No.</b>                      | 231-599-9                        |
| <b>Japan</b>                       | ENCS no. 1-113<br>ISHL no. 1-113 |
| <b>Australia</b>                   | Listed in AICS                   |
| <b>New Zealand Inventory</b>       | Listed in NZIoC                  |
| <b>China<br/>- China inventory</b> | Listed in IECSC                  |
| <b>Korea</b>                       | Listed in ECL (KE-31368)         |
| <b>Philippines</b>                 | Listed in PICCS                  |

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## 16. Other Information

**Note:** All sections reformatted in accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

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**End of safety data sheet**