

SAFETY DATA SHEET

LAUNDRI DRY BLEACH

Section 1. Chemical product and company identification

Product name : LAUNDRI DRY BLEACH

Recommended use and restrictions : Bleach

Use only for the purpose on the product label.

Product dilution information : Up to 5.8 oz/50 gal or 0.9 mL/L in water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 912907

Date of issue : 02 Dec 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
OXIDIZING SOLIDS - Category 1
COMBUSTIBLE DUSTS
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Signal word : Danger

Symbol : 

Hazard statements : May cause fire or explosion; strong oxidizer.
May form combustible dust concentrations in air.
Causes serious eye damage.

Precautionary statements

Prevention : Wear fire resistant clothing. Wear eye or face protection. Keep away from heat. - No smoking.
Keep away from clothing, incompatible materials and combustible materials. Take any precaution to avoid mixing with combustibles and other incompatible materials. Avoid release to the environment. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

Response :

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical hazards.

Wash thoroughly after handling.

Section 2. Hazards identification

| | | |
|----------------------|---|--|
| | In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. | Get medical attention if symptoms appear. |
| Storage | : No other specific measures identified. | No other specific measures identified. |
| Disposal | : See section 13 for waste disposal information. | See section 13 for waste disposal information. |
| Other hazards | : Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. | None known. |

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

| Hazardous ingredients | Concentration Range (%) | CAS number |
|------------------------------|-------------------------|------------|
| SODIUM CHLORIDE | >50 | 7647-14-5 |
| SODIUM CARBONATE | 5 - 20 | 497-19-8 |
| troclosene sodium, dihydrate | 5 - 20 | 51580-86-0 |

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

| | Product AS SOLD | Product AT USE DILUTION |
|---|---|---|
| Eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. | No known effect after eye contact. Rinse with water for a few minutes. |
| Skin contact | : No known effect after skin contact. Rinse with water for a few minutes. | No known effect after skin contact. Rinse with water for a few minutes. |
| Inhalation | : No special measures required. Treat symptomatically. | No special measures required. Treat symptomatically. |
| Ingestion | : Get medical attention if symptoms occur. | Get medical attention if symptoms occur. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. | |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. | |
| See toxicological information (section 11) | | |

Section 5. Fire-fighting measures

Product AS SOLD

- Suitable fire extinguishing media** : Use dry chemical powder.
- Specific hazards arising from the chemical** : Strongly oxidizing material. May cause fire or explosion. Fine dust clouds may form explosive mixtures with air. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
metal oxide/oxides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate the area. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

| | Product AS SOLD | Product AT USE DILUTION |
|----------------------------------|---|--|
| Personal precautions | : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material. | Use personal protective equipment as required. |
| Environmental precautions | : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. | Avoid contact of large amounts of spilled material and runoff with soil and surface waterways. |
| Methods for cleaning up | : Collect spillage. Use a water rinse for final clean-up. | Use a water rinse for final clean-up. |

Section 7. Handling and storage

| | Product AS SOLD | Product AT USE DILUTION |
|-----------------|--|---------------------------------|
| Handling | : Do not get in eyes or on skin or clothing. Do not breathe dust. Keep away from combustible materials. Keep only in original container. Use only with adequate ventilation. Wash thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas. | Wash thoroughly after handling. |
| Storage | : Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from reducing agents and combustible materials. Store between the following temperatures: 0 and 50°C | Keep out of reach of children. |

Section 8. Exposure controls/personal protection

Control parameters

| Ingredient name | Exposure limits |
|-----------------|---|
| chlorine | ACGIH TLV (United States, 3/2012). STEL: 2.9 mg/m ³ 15 minutes. STEL: 1 ppm 15 minutes. TWA: 1.5 mg/m ³ 8 hours. TWA: 0.5 ppm 8 hours. OSHA PEL (United States, 6/2010). CEIL: 3 mg/m ³ CEIL: 1 ppm NIOSH REL (United States, 6/2009). CEIL: 0.5 ppm 15 minutes. CEIL: 1.45 mg/m ³ 15 minutes. |

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Personal protection

Eye protection : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hand protection : No protective equipment is needed under normal use conditions.

Skin protection : No protective equipment is needed under normal use conditions.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and chemical properties

| | Product AS SOLD | Product AT USE DILUTION |
|----------------------------------|-------------------|-------------------------|
| Physical state | : Powder | Liquid. |
| Color | : White | Colorless |
| Odor | : chlorine | chlorine |
| pH | : 10 (1%) | 9 to 10.5 |
| Flash point | : > 100°C | > 100°C |
| Explosion limits | : Not available. | |
| Flammability (solid, gas) | : Not available. | |
| Melting point | : Not available. | |
| Boiling point | : >100°C (>212°F) | |

Section 9. Physical and chemical properties

| | |
|--|---|
| Evaporation rate (butyl acetate = 1) | : Not available. |
| Vapor pressure | : Not available. |
| Vapor density | : Not available. |
| Relative density | : 0 (Water = 1) |
| Solubility | : Soluble in the following materials: hot water. Partially soluble in the following materials: cold water. |
| Partition coefficient: n-octanol/water | : Not available. |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Odor threshold | : Not available. |
| Viscosity | : Kinematic (room temperature): 0 cm ² /s (0 cSt) |

Section 10. Stability and reactivity

Product AS SOLD

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|---|---|
| Stability | : The product is stable. |
| Possibility of hazardous reactions | : Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of explosion |
| Conditions to avoid | : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. |
| Materials to avoid | : Highly reactive or incompatible with the following materials: acids. Reactive or incompatible with the following materials: organic materials. Slightly reactive or incompatible with the following materials: metals and alkalis. Do not allow water to enter container. Wet material may generate halogenated gas that may pressurize sealed containers. Mixing this product with acid or ammonia releases chlorine gas. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

| | |
|--------------------------|---|
| Route of exposure | : Skin contact, Eye contact, Ingestion |
| Product AS SOLD | |
| Symptoms | |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| Skin contact | : No specific data. |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing |

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

Section 11. Toxicological information

| | | |
|-----------------------|--|---|
| Ingestion | : No specific data. | No specific data. |
| Acute toxicity | | |
| Eye contact | : Causes serious eye damage. | No known significant effects or critical hazards. |
| Skin contact | : No known significant effects or critical hazards. | No known significant effects or critical hazards. |
| Inhalation | : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. | No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. | No known significant effects or critical hazards. |

Toxicity data

Product/ingredient name

| | | | |
|------------------------------|------------------------------------|--------|--------------|
| sodium chloride | LC50 Inhalation Dusts and mists | Rat | >10.5 mg/l |
| | LD50 Dermal | Rabbit | >10000 mg/kg |
| | LD50 Oral | Rat | 3000 mg/kg |
| sodium carbonate | LC50 Inhalation Dusts and mists | Rat | 1.15 mg/l |
| | LD50 Dermal | Rabbit | >2000 mg/kg |
| | LD50 Oral | Rat | 2800 mg/kg |
| troclosene sodium, dihydrate | LD50 Dermal | Rat | >5000 mg/kg |
| | LD50 Oral | Rat | 1823 mg/kg |

Chronic toxicity

| | |
|------------------------------|---|
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |

Section 12. Ecological information

Product AS SOLD

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| Ecotoxicity | : Water polluting material. May be harmful to the environment if released in large quantities. This material is toxic to aquatic life. |
|--------------------|--|

Aquatic and terrestrial toxicity

| Product/ingredient name | Result | Species | Exposure |
|------------------------------|-----------------------|---------|----------|
| sodium chloride | Acute LC50 5840 mg/l | Fish | 96 hours |
| sodium carbonate | Acute EC50 200 mg/l | Daphnia | 48 hours |
| troclosene sodium, dihydrate | Acute EC50 0.196 mg/l | Daphnia | 48 hours |

| | |
|------------------------------|---|
| Other adverse effects | : No known significant effects or critical hazards. |
|------------------------------|---|

Section 13. Disposal considerations

Product AS SOLD

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|----------------------------|--|
| Disposal methods | : Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| RCRA classification | : Unused product is D001 (Ignitable) |

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification Not regulated.

IMO/IMDG

IMO/IMDG Classification Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313 Product name CAS number Concentration

Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

Hazardous Material :
Information System (U.S.A.)

| | |
|------------------|---|
| Health | 3 |
| Flammability | 0 |
| Physical hazards | 1 |
| | |

National Fire Protection Association (U.S.A.) :

| | | |
|----|---|------------------------|
| | 0 | Flammability |
| 3 | 1 | Instability/Reactivity |
| OX | | Special |

Product AT USE DILUTION

| | |
|------------------|---|
| Health | 0 |
| Flammability | 0 |
| Physical hazards | 0 |
| | |

| | | |
|---|---|------------------------|
| | 0 | Flammability |
| 0 | 0 | Instability/Reactivity |
| | | Special |

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Notice to reader

Section 16. Other information

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.