

Material Safety Data Sheet

BLOCK WHITENER

1. Product and company identification

| | | | |
|----------------------|---|-----------------------------|-------------------------------|
| Product name | BLOCK WHITENER | In case of emergency | 1-800-843-6174 |
| Code | 357FS | Validation date | 7/7/2009. |
| Material uses | Cleaner/degreaser | Print date | 7/14/2009. |
| Manufacturer | Essential Industries, Inc. P.O. Box 12 Merton, WI 53056-0012 Phone: 262-538-1122 | Responsible name | Regulatory Affairs Department |

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

| | | |
|---------------------|---|-------------------|
| Health | 3 | HAZARD RATING |
| Flammability | 0 | 4 = Extreme |
| Physical hazards | 2 | 3 = High |
| Personal protection | C | 2 = Moderate |
| | | 1 = Slight |
| | | 0 = Insignificant |

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

2. Hazards identification

Emergency overview NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

Potential acute health effects due to overexposure

Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
Ingestion May cause burns to mouth, throat and stomach.
Skin Severely corrosive to the skin. Causes severe burns.
Eyes Severely corrosive to the eyes. Causes severe burns.

Potential chronic health effects due to overexposure

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.

See toxicological information (section 8)

3. Composition/information on ingredients

| | | |
|---------------------|-------------------|----------|
| Name | CAS number | % |
| sodium hypochlorite | 7681-52-9 | 5 - 10 |

4. First aid measures

Eye contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

| | |
|---|---|
| Flammability of the product | In a fire or if heated, a pressure increase will occur and the container may burst. |
| Extinguishing media | |
| Suitable | Use an extinguishing agent suitable for the surrounding fire. |
| Special exposure hazards | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Hazardous thermal decomposition products | Decomposition products may include the following materials: halogenated compounds metal oxide/oxides |
| 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. |

6. Control and preventive measures

Storage Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

| Ingredient | Exposure limits |
|---------------------|--|
| sodium hypochlorite | AIHA WEEL (United States, 1/2008). STEL: 2 mg/m ³ 15 minute(s). |

Personal protection

| | |
|--------------------|---|
| Respiratory | None required. However, use of adequate ventilation is good industrial practice. |
| Hands | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Skin | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Eyes | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. |

Methods for cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Waste disposal Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

7. Physical and chemical properties

| | | | |
|-----------------------|--------------|-----------------------------------|--------------------|
| Physical state | Liquid | Boiling/condensation point | 100°C (212°F) |
| Color | Amber | Melting/freezing point | 0°C (32°F) |
| Odor | Chlorine | Vapor pressure | <4 kPa (<30 mm Hg) |
| VOC | 0.0% | Vapor density | <1 [Air = 1] |
| pH | 12.2 to 13.2 | Weight per Gallon: | 9.03 lbs./gal. |
| 1% pH: | 9.0 | Specific Gravity: | 1.08 gm/ml |
| Solubility | Complete | | |

8. Toxicological information


Acute toxicity

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

9. Transport information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|---------------------------|-----------|--|---------|-----|---|------------------------|
| DOT Classification | UN1719 | Caustic alkali liquids, n.o.s. (sodium hypochlorite) | 8 | III |  | - |

PG* : Packing group