



Material Safety Data Sheet

Version 1.0

Revision Date 01/30/2012

MSDS Number 004

Print Date 01/30/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **Brew Clean**

Product Use Description : Detergent/Cleaner

Manufacturer/Distributor : LOGIC, Inc.
P.O. Box 603
Trexlerstown, PA 18087

Telephone : 608-658-2866

Emergency telephone number : 608-658-2866
(24h)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration
Sodium Carbonate Peroxyhydrate	15630-89-4	20 - 40 %
Sodium Carbonate	497-19-8	20 - 40 %
Sodium Citrate	77-92-9	10 - 20 %
Sodium Metasilicate	7647-14-5	10 - 20 %

3. HAZARDS IDENTIFICATION

Emergency Overview

Hazards principally related to irritating properties.
Does not present any significant hazard to the environment.

Potential Health Effects

Inhalation : Inhalation of dust may cause irritation to mucosal membranes, nose, and throat.
Eye contact : Severe eye irritation.

Skin contact : Mild irritation.

Ingestion : Irritation to the gastrointestinal tract. May cause bloating of the stomach, belching. Large oral doses may cause gastrointestinal disturbances.

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.

Exposure Guidelines

Target Organs : Eyes.

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Aggravated Medical Condition

Eye disease

4. FIRST AID MEASURES

- Eye contact : Rinse immediately with plenty of water also under the eyelids for at least 15 minutes. Remove contact lenses. Call a physician if irritation persists.
- Skin contact : Wash with plenty of soap and water. Get medical attention if irritation develops and persists.
- Ingestion : Rinse mouth with water and drink 1-2 glasses of water to dilute. Seek medical advice if large amounts were ingested. Do not induce vomiting.
- Inhalation : Move to fresh air.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam.
Carbon dioxide (CO₂).
Dry chemical.
Dry sand.
Limestone powder.
- Specific hazards : Oxygen released on exothermic decomposition due to surrounding fire may support combustion.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Observe protective measures given in Section 8.
- Environmental precautions : Sweep up or collect material. Very large quantities may be toxic to vegetation and fish if discharged into pond or stream.
- Methods for cleaning up : Wet sweeping or using a wet/dry vacuum will help to limit dust dispersal. Whatever cannot be saved for reclamation may be disposed of in accordance with local, state, or federal regulation.

7. HANDLING AND STORAGE

Handling

Avoid contact with eyes. Use personal protective equipment as necessary. When using, do not eat, drink or smoke.

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Storage

Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage Temperature : 70 - 125 °F (21.11 - 51.67 °C)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide natural or forced ventilation adequate to ensure dust or concentrations are kept below exposure limits.

Personal protective equipment

- Respiratory protection : Not required for properly ventilated areas.
- Hand protection : Neoprene gloves.
Nitrile rubber.
Polyvinyl Alcohol Gloves (PVA).
The breakthrough time of the selected glove(s) must be greater than the intended use period.
- Eye protection : Safety glasses with side shields are recommended to protect eyes from accidental exposure.
- Skin and body protection : No specific recommendation.
- Special instructions for protection and hygiene : Wash at the end of using this product and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Powder.
- Color : White.
- Odor : Mild.
- Relative density : 0.86 – 1.2
- Vapor pressure : Not Applicable
- pH : 10.5 – 11.5 @ 1 wt% in Water
- Boiling point/range : Not Applicable
- Melting point/range : >392 °F (200 °C)

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Flash point : Not Combustible

10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions with slow gas release.

Materials to avoid : Strong acids
Strong bases
Reducing agents

Hazardous decomposition products : Oxygen
Carbon dioxide (CO₂).
Decomposition releases heat, steam, and CO₂.

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion : No data is available on the product itself. Based on components the following is **estimated**, but not certified.

Cleaning Compound LD50 : > 1,900 mg/kg Species : Rat.

Inhalation : No data is available on the product itself.

Dermal : No data is available on the product itself.

Eye irritation/corrosion : Severe eye irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself. Based on modeling of the components, the following toxicities are **estimated**, but are not certified:

Toxicity to fish -
Cleaning Compound LC50 (96 h) : >1200 mg/l Species : Fathead minnow (Pimephales promelas).

Toxicity to daphnia - Components
Cleaning Compound EC50 (48 h) : >600 mg/l Species : Daphnia magna.

Toxicity to other organisms : No data available.

Persistence and degradability

Biodegradability : Biodegradability does not apply to inorganic compounds, which comprises the bulk of this product. All organic components are themselves readily biodegradable.

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Mobility : No data available.
Bioaccumulation : No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.
Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

UN/ID No. : Not Applicable
Proper shipping name : Not Applicable
Class or Division : Not Applicable
Packing group : Not Applicable
: Not Hazardous for Transport

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

OSHA Hazard Communication Standard (29 CFR 1910.1 200) Hazard Class(es)
Irritant.

Country	Regulatory list	Notification
USA	TSCA	Components Included on Inventory.
EU	EINECS	Components Included on Inventory.
Canada	DSL	Components Included on Inventory.
Australia	AICS	Components Included on Inventory.
Japan	ENCS	Components Included on Inventory.
South Korea	ECL	Components Included on Inventory.
China	SEPA	Components Included on Inventory.
Philippines	PICCS	Components Included on Inventory.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level

None.

Prop 65 – Chemicals known to cause cancer:

None.

Prop 65 – Chemicals known to cause reproductive toxicity:

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None.

WHMIS Hazard Classification
Not Rated

16. OTHER INFORMATION

HMIS Rating

Health	: 2
Flammability	: 0
Physical hazard	: 0

Prepared by : LOGIC, Inc.

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Preparation Date : 09/30/2010
