# Safety Data Sheet

## SECTION 1 — IDENTIFICATION

**Product Identifier: Sorbo Hard Water Stain Remover (Blue Label)**

**Recommended use of the chemical and restrictions on use: Acetic cleaner, descalant**

**Name, Address, and Telephone of the chemical manufacturer, importer, or responsible party:**
Sorbo Products, Inc.
72248 North Shore Street, Suite 105
Thousand Palms, CA 92276
(760) 202-4003
**24 Hr. Emergency Telephone Number: (760) 202-4003**

## SECTION 2- HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**
**· Classification according to Regulation (EC) No 1272/2008:**

**Skin Irrit. 2 H315 Causes skin irritation.**
**Eye Irrit. 2 H319 Causes serious eye irritation.Label Elements:**
**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

**Xi; Irritant**

**R36/38: Irritating to eyes and skin.**
**· Information concerning particular hazards for human and environment:**
**The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.**
**· Classification system:**
**The classification is according to the latest editions of the EU-lists, and extended by company and literature data.**
**The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.**
**· Additional information: May form combustible dust concentrations in air.**
**· 2.2 Label elements**
**· Labelling according to Regulation (EC) No 1272/2008**
**The product is classified and labelled according to the CLP regulation.**

**Hazard pictograms**

## SECTION 2- HAZARDS IDENTIFICATION (continued)

**GHS07**

- **Signal word Warning**
- **Hazard statements**

**H315 Causes skin irritation.**
**H319 Causes serious eye irritation.**

- **Precautionary statements**

**P280 Wear protective gloves / eye protection.**
**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**
**P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of water/…**
**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.**

- **Hazard description:**
- **WHMIS-symbols:**

**D2B - Toxic material causing other toxic effects E - Corrosive material**

**NFPA ratings (scale 0 - 4)**


**Health = 3**
**Fire = 0**
**Reactivity = 0**

**HMIS-ratings (scale 0 –4)**


**Health = 3**
**Fire = 0**
**Reactivity = 0**

**· HMIS Long Term Health Hazard Substances**
**14808-60-7 Quartz (SiO2)**
**· 2.3 Other hazards**
**· Results of PBT and vPvB assessment**
**· PBT: Not applicable.**
**· vPvB: Not applicable.**

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

**· 3.2 Mixtures**
**· Description: Mixture of substances listed below with nonhazardous additions.**

| Chemical Name | CAS# | Concentration |
|---|---|---|
| Diatomaceous earth (Silica-Amorphous) | 61790-53-2 | 25-50% |
| Sulphamidic acid | 5329-14-6 | 10-25% |
| Quartz (SiO2) | 14808-60-7 | 2-3% |

Note: the exact concentration of the above listed chemicals is being withheld as a trade secret.

## SECTION 4- FIRST AID MEASURES

**· 4.1 Description of first aid measures**
**· General information:**
**Immediately remove any clothing soiled by the product.**
**Take affected persons out into the fresh air.**

**Inhalation:** Supply fresh air; consult doctor in case of complaints.

**Skin Contact:** Brush off loose particles from skin. Immediately rinse with water. If skin irritation continues, consult a doctor. Seek immediate medical help for blistering or open wounds.

**Eye Contact:** Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. Then consult a doctor.

**Ingestion:** Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

**Side Effects Acute and Chronic**: Cramp, Nausea, Coughing, Gastric or intestinal disorders. Breathing difficulty, Thirst, Irritant to skin and mucous membranes. Irritant to eyes.

**Hazards:** Danger of gastric perforation. Danger of circulatory collapse.

**Indication of any immediate medical attention and special treatment:** Medical supervision for at least 48 hours. If necessary oxygen respiration treatment.

## SECTION 5- FIRE-FIGHTING MEASURES

**5.1 Extinguishing media**
**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
**For safety reasons unsuitable extinguishing agents:** None.

**5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters**
**Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective suit.
**Additional information:** Eliminate all ignition sources if safe to do so.

## SECTION 6— ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Avoid formation of dust.

**6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

**6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

**6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## SECTION 7—HANDLING AND STORAGE

**7.1 Precautions for safe handling**
Prevent formation of dust.
Any unavoidable deposit of dust must be regularly removed. Store in cool, dry place in tightly closed receptacles.
Use only in well ventilated areas.
**Information about fire - and explosion protection:**
Dust can combine with air to form an explosive mixture.

**7.2 Conditions for safe storage, including any incompatibilities**
**Storage:**
**Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle. Protect from humidity and water.
**Information about storage in one common storage facility:**
Store away from foodstuffs. Store away from metals.
Do not store together with alkalis (caustic solutions).
**Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight. Store in dry conditions.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8— EXPOSURE CONTROLS/PERSONAL PROTECTION

**Additional information about design of technical facilities:** No further data; see item 7.
**8.1 Control parameters**
**Ingredients with limit values that require monitoring at the workplace:**

**Diatomaceous earth (Silica-Amorphous) CAS# 61790-53-2**
PEL (USA) 20mppcf or 80mg/m3 /%SiO2
REL (USA) Long-term value: 6 mg/m³ - See Pocket Guide App. C
TLV (USA) TLV withdrawn
EL (Canada) Long-term value: 4* 1,5** mg/m³ - *total, **respirable
EV (Canada) Long-term value: 10* 3** mg/m³ - uncalcined; *inhalable;**respirable

**Quartz (SiO2) CAS# 14808-60-7**
PEL (USA) see Quartz listing
REL (USA) Long-term value: 0,05* mg/m³ - *respirable dust; See Pocket Guide App. A
TLV (USA) Long-term value: 0,025* mg/m³ - *as respirable fraction
EL (Canada) Long-term value: 0,025 mg/m³ - ACGIH A2; IARC 1
EV (Canada) Long-term value: 0,10* mg/m³ - *respirable fraction

**DNELs** No further relevant information available.
**PNECs** No further relevant information available
**Additional information:** The lists valid during the making were used as basis.

## SECTION 8— EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

**8.2 Exposure controls**
**Personal protective equipment:**
**General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale dust / smoke / mist.

**Respiratory protection:**
Not required under normal conditions of use.
Use suitable respiratory protective device in case of insufficient ventilation.
For spills, respiratory protection may be advisable.

**Protection of hands:** Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
**Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
**Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

**Body protection:** Acid resistant protective clothing

**Limitation and supervision of exposure into the environment**
No further relevant information available.

**Risk management measures**
See Section 7 for additional information.
No further relevant information available.

## SECTION 9— PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White Powder
**Odor:** Odorless
**Odor threshold:** Not determined
**pH:** 1.5 – 2.0 (in solution)
**Melting/Freezing Point:** Not determined
**Initial boiling point and boiling range:** Not determined
**Flash Point:** Not applicable
**Flash Point Method:** Not applicable
**Evaporation Rate:** Not applicable
**Flammability:** Not determined
**Lower Flammable limit:** Not determined
**Upper Flammable limit:** Not determined
**Vapor Pressure:** Not applicable
**Vapor Density:** Not applicable
**Relative Density:** Not determined
**Solubility in Water:** soluble
**Other Solubility (ies):** Not determined
**Partition Coefficient:** Not determined
**Auto Ignition Temperature:** Product is not self-igniting.
**Decomposition Temp:** Not determined
**Viscosity:** Not applicable
**Other physical/chemical comments:** No further relevant information available.

## SECTION 10— STABILITY AND REACTIVITY

**10.1 Reactivity**
**10.2 Chemical stability**
**Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**
Toxic fumes may be released if heated above the decomposition point.
Reacts with light alloys in the presence of moisture to form hydrogen.
As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
Reacts with alkali (lyes).
Reacts with strong oxidizing agents.

**10.4 Conditions to avoid** Moisture.
**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**
Sulphur oxides (SOx)
Nitrogen oxides (NOx)
Ammonia

## SECTION 11—TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**
**Acute toxicity:**
**LD/LC50 values relevant for classification:**
**5329-14-6 sulphamidic acid -** Oral LD50 3160 mg/kg (rat)

**Primary irritant effect:**
**on the skin:** Irritant to skin and mucous membranes.
**on the eye:** Irritating effect.
**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## SECTION 12— ECOLOGICAL INFORMATION

**12.1 Toxicity**
**Aquatic toxicity:** The product contains materials that are harmful to the environment.
**12.2 Persistence and degradability:** No further relevant information available.
**12.3 Bioaccumulative potential:** No further relevant information available.
**12.4 Mobility in soil:** No further relevant information available.
**Ecotoxical effects:**
**Remark:** After neutralization toxicitity cannot be recognized any longer.
**Additional ecological information:**
**General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
This statement was deduced from the properties of the single components.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
**12.5 Results of PBT and vPvB assessment**
**PBT:** Not applicable.
**vPvB:** Not applicable.
**12.6 Other adverse effects:** No further relevant information available.

## SECTION 13— DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**
**Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Dilute concentrate with water and neutralize afterwards with suitable material (lime or chalk). The formed salts are inert and pose little hazard.
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
**Uncleaned packaging:**
**Recommendation:** Disposal must be made according to official regulations.
**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14—TRANSPORTATION INFORMATION

**US 49 CFR/DOT Information:** Not regulated

**Special Precautions for user:** Not applicable

**Environmental hazards: Marine pollutant:** No

**Transportation for Bulk According to Annex II of Marpol 73/78 and the IBC Code:** Not applicable

## SECTION 15— REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**United States (USA) - SARA**
**Section 355 (extremely hazardous substances):** None of the ingredients is listed.
**Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.
**TSCA (Toxic Substances Control Act):** All ingredients are listed.

**Proposition 65 (California):**
**Chemicals known to cause cancer:** Quartz (SiO2) CAS# 14808-60-7
**Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed.
**Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.
**Chemicals known to cause developmental toxicity:** None of the ingredients is listed.

**Carcinogenic Categories**
**EPA (Environmental Protection Agency)** None of the ingredients is listed.

**IARC (International Agency for Research on Cancer):**
Diatomaceous earth (Silica-Amorphous) CAS# 61790-53-2 **3**
Quartz (SiO2) CAS# 14808-60-7 **1**

**TLV (Threshold Limit Value established by ACGIH)**
Quartz (SiO2) CAS# 14808-60-7 **A2**

**NIOSH-Ca (National Institute for Occupational Safety and Health)**
Quartz (SiO2) CAS# 14808-60-7

**OSHA-Ca (Occupational Safety & Health Administration**): None of the ingredients is listed.

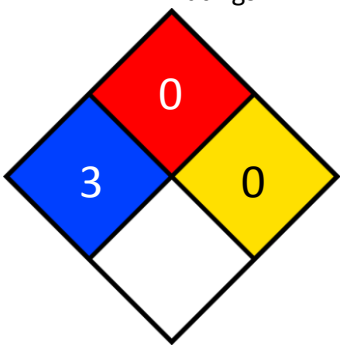
**Canada**
**Canadian Domestic Substances List (DSL):** All ingredients are listed.
**Canadian Ingredient Disclosure list (limit 0.1%):** None of the ingredients is listed.
**Canadian Ingredient Disclosure list (limit 1%):** All ingredients are listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16—OTHER INFORMATION

Issue date 12-May-2015

NFPA Ratings




This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Relevant phrases:
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3