

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/10/2007

Reviewed on 12/10/2007

1 Identification of substance

· Product details

- Trade name: Cure & Hard
- Article number: 83-243135
- Application of the substance / the preparation

· Manufacturer/Supplier:

Symons
4226 Kansas Avenue
Kansas City, KS 66106

Tel.: (877) 854-0643

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

- Information department: Environmental, Health, and Safety department.

2 Composition/Data on components

- Chemical characterization
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

1344-09-8	Silicic acid, sodium salt	10-25%
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- Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- Hazard description: May cause skin and eye irritation.
- Information pertaining to particular dangers for man and environment:
The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.
- Classification system:
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	0	Fire = 0
PHYSICAL HAZARD	0	Reactivity = 0

4 First aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Dilute with plenty of water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **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:** Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

- **General Information**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100°C (212°F)

- **Flash point:** Not applicable.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapor pressure at 20°C (68°F):** 23.0 hPa (17 mm Hg)

- **Density at 20°C (68°F):** 1.156 g/cm³

- **Solubility in / Miscibility with**

Water: Fully miscible.

- **Solvent content:**

Organic solvents: 0.0 %

Water: 85.0 %

- **Solids content:** 15.0 %

- **Volatile Organic Compounds:** Contains 0 g/L.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Strong irritant with the danger of severe eye injury.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

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Irritant

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12 Ecological information

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation:**
Must not be disposed of as normal garbage. Do not allow product to reach sewage system.
It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------|
| · DOT regulations: | Not Regulated |
| · Hazard class: | N/A |
| · Limited Quantity Exemption: | No Limited Quantity exemption applies for this shipping class. |
| · U.S. Domestic Ground Shipments: | Same as listed for Standard Shipments above. |
| · U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: | Same as listed for Standard Shipments above. |
| · Emergency Response Guide (ERG) Number: | Not determine |
| · Land transport ADR/RID (cross-border): | Not Regulated |
| · ADR/RID class: | N/A |
| · Maritime transport IMDG: | Not Regulated |
| · IMDG Class: | N/A |
| · Marine pollutant: | No |
| · Air transport ICAO-TI and IATA-DGR: | Not Regulated |
| · ICAO/IATA Class: | N/A |

15 Regulations

- Sara

- **Section 355 (extremely hazardous substances):**

75-21-8 ethylene oxide

- **Section 313 (Specific toxic chemical listings):**

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

123-91-1	1,4-dioxane	≤0.01%
7439-92-1	lead	≤0.01%
7440-38-2	arsenic	≤0.01%

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7440-43-9	cadmium (non-pyrophoric)	≤0.01%
7440-02-0	nickel	≤0.01%
75-21-8	ethylene oxide	≤0.01%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to the State of California (Prop. 65) to cause cancer:**

123-91-1	1,4-dioxane
7439-92-1	lead
7440-43-9	cadmium (non-pyrophoric)
7440-02-0	nickel
75-21-8	ethylene oxide

· **Chemicals known to cause reproductive toxicity for females:**

7439-92-1	lead
75-21-8	ethylene oxide

· **Chemicals known to cause reproductive toxicity for males:**

7439-92-1	lead
7440-43-9	cadmium (non-pyrophoric)

· **Chemicals known to cause developmental toxicity:**

7439-92-1	lead
7440-43-9	cadmium (non-pyrophoric)

· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

123-91-1	1,4-dioxane	B2
7439-92-1	lead	B2
7440-38-2	arsenic	A
7440-43-9	cadmium (non-pyrophoric)	B1

· **IARC (International Agency for Research on Cancer)**

123-91-1	1,4-dioxane	2B
7439-92-1	lead	2B
7440-38-2	arsenic	1
7440-43-9	cadmium (non-pyrophoric)	1
7440-02-0	nickel	2B
75-21-8	ethylene oxide	1

· **NTP (National Toxicology Program)**

123-91-1	1,4-dioxane	R
7440-38-2	arsenic	K
7440-43-9	cadmium (non-pyrophoric)	K
7440-02-0	nickel	R
75-21-8	ethylene oxide	K

· **TLV (Threshold Limit Value established by ACGIH)**

123-91-1	1,4-dioxane	A3
7439-92-1	lead	A3

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7440-38-2	arsenic	A1
7440-43-9	cadmium (non-pyrophoric)	A2
7440-02-0	nickel	A5
75-21-8	ethylene oxide	A2

· **MAK (German Maximum Workplace Concentration)**

123-91-1	1,4-dioxane	4
7440-38-2	arsenic	1
7440-43-9	cadmium (non-pyrophoric)	2
7440-02-0	nickel	1
75-21-8	ethylene oxide	2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

123-91-1	1,4-dioxane	
7440-38-2	arsenic	
7440-43-9	cadmium (non-pyrophoric)	
7440-02-0	nickel	
75-21-8	ethylene oxide	

· **OSHA-Ca (Occupational Safety & Health Administration)**

7440-38-2	arsenic	
7440-43-9	cadmium (non-pyrophoric)	
75-21-8	ethylene oxide	

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:** Xi Irritant

· **Risk phrases:** 41 Risk of serious damage to eyes.

· **Safety phrases:**

2 Keep out of the reach of children.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28 After contact with skin, wash immediately with plenty of soap and water.

37/39 Wear suitable gloves and eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

64 If swallowed, rinse mouth with water (only if the person is conscious).

· **National regulations:**

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

The provided 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.

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· **Department issuing MSDS:** Environmental, Health & Safety Department

· **Contact:** Environmental, Health & Safety Manager