

**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

Product Name	Soluble Concentrate (SC)
General Use	Alkaline detergent for soluble support removal
Manufacturer and Address	Stratasys® Inc. 14950 Martin Drive Minneapolis, MN 55344-2020 USA
Emergency Telephone Number	+1 952-937-3000

2. COMPOSITION, INGREDIENT INFORMATION

COMPONENT	CAS #	%	OSHA/PEL	ACGIH/TLV
Sodium hydroxide	1310-73-2	24-25	2 mg/m ³	2 mg/m ³
EU classification sodium hydroxide ≥ 5%: Corrosive [C] R 35: Causes severe burns				

3. HAZARDS IDENTIFICATION

Emergency Overview	White, odorless granules and beads. Contains sodium hydroxide, which when combined with water, can cause severe burns to skin and eyes.
HMIS Ratings	Health: 3 Flammability: 0 Reactivity: 1
Inhalation	Sodium hydroxide aerosols may cause severe irritation of the respiratory tract
Eye Contact	Sodium hydroxide can cause severe irritation and permanent damage
Skin Contact	Sodium hydroxide can cause severe burns when combined with moisture
Ingestion	Sodium hydroxide can cause severe burns of the mouth, throat and esophagus
Chronic	No data available
Carcinogenicity	None of the components in this mixture are listed by NTP, OSHA, or ACGIH as a carcinogen



4. EMERGENCY AND FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water immediately. Get medical attention if irritation or burns develop.
Eye Contact	In cases of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, call a physician. Give large amounts of water to drink. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES & EXPLOSION HAZARD DATA

Flash Point	Not applicable
Autoignition Temperature	Not applicable
Extinguishing Media	Use dry chemical powder or carbon dioxide for small fires; for large fires, use water or foam spray
Special Fire-Fighting Procedures	Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and full protective equipment.
Unusual Fire and Explosion Hazards	None known
Hazardous Decomposition Products	Thermal decomposition will produce oxides of carbon, sulfur and sodium

6. ACCIDENTAL RELEASE MEASURES

General	Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.
Specific	Contain spill. Sweep up dry sodium hydroxide for recycling or disposal. Dispose as dry waste.

**7. HANDLING & STORAGE**

Handling	Sodium hydroxide is extremely corrosive. Avoid contact with skin and eyes. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Never add water to sodium hydroxide, only add sodium hydroxide to water.
Storage	Store in a cool, well-ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Ventilation	Use only with adequate ventilation and in accordance with the exposure guidelines for sodium hydroxide
Respiratory	Use proper respiratory equipment if exposure limits are exceeded
Eye Protection	Wear safety goggles to prevent contact with eyes
Skin	Use protective gloves
Other	Use protective clothing as appropriate

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	White granules and beads
Odor	Odorless
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Melting Point	Not determined
Boiling Point	Not applicable
Specific Gravity	Not applicable
Volatile By Volume (Water)	Not applicable
Solubility In Water	Soluble
pH (of solution)	~13

**10. STABILITY & REACTIVITY**

Stability	Stable under normal recommended storage and handling conditions (see section 7)
Hazardous Polymerization	Will not occur
Incompatibility	Strong acids, metals such as aluminum, zinc, tin
Hazardous Thermal Decomposition Products	Thermal decomposition will produce oxides of sodium

11. TOXICOLOGICAL DATA

Acute Oral	In animal studies, short-term exposure to sodium hydroxide has caused severe corrosive damage to the esophagus
Acute Dermal	Sodium hydroxide, when in contact with skin moisture, can cause severe injury depending on length of contact
Acute Inhalation	No data available for solid sodium hydroxide
Skin Irritation	Sodium hydroxide can cause severe burns
Eye Irritation	Sodium hydroxide can cause severe burn
Genotoxicity	Sodium hydroxide is negative in the Ames test

12. ECOLOGICAL INFORMATION

Fish Toxicity	No data available
Daphnia Toxicity	No data available
Bioaccumulation	No data available

13. DISPOSAL CONSIDERATIONS

Disposal of wastes and used containers must be in accordance with applicable federal, state and local regulations.

**14. TRANSPORT INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)**

U.S. Department of Transportation (D.O.T.)	This product is not regulated by D.O.T. when shipped domestically by land
Canadian TDG Information	This product is not regulated by TDG when shipped domestically by land
IATA Regulation	Proper Shipping Name: Sodium Hydroxide, Solid UN #: UN1823 Hazard Class: 8 Packing Group: II

15. REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE)

All components of this product are listed on these chemical inventories: U.S. TSCA, Canadian DSL, EU EINECS, Japanese ENCS, Korean ECL, Australian AICS.

16. OTHER INFORMATION

THE INFORMATION contained in the PROCEEDING report is based upon current knowledge, our experience with the product, and is not exhaustive. While not guaranteed, the information presented herein was prepared by a competent, technical professional and is true and accurate to the best of our knowledge. The information applies to product as defined by the specifications. If the product is mixed with other substances, the customer must confirm that no new hazards exist. In all cases, the user is not exempt from following all legal, administrative and regulatory procedures relating to the product, personal hygiene, and the integrity of the work environment. Stratasys® shall not be held liable for any damage resulting from handling or from contact and use with the above product.

Revision History

Revision	Revision Date
102381-0002	2006-03-16