



MATERIAL SAFETY DATA SHEET

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1- COMMERCIAL NAME : Speedy Hardener

Do not handle this material until the manufacturer's safety precautions have been read and understood! Regulations require that all employees be educated & trained on the Material Safety Data Sheets for all products with which they come in contact.

2- COMPOSITION/INFORMATION ON INGREDIENTS :

CHEMICAL NAME	C.A.S No.	QTY%
1. Trimethylhexane-1,6-diamine	25620-58-0	30-40
2. Phenol	108-95-2	10-20
3. N/A	N/A	N/A

3- HAZARDS IDENTIFICATION :

- Severe skin irritant; may cause skin sensitization by contact. Corrosive to skin and eyes; may result in burns.
 - Severe eye irritant; may cause lacrimation, conjunctivitis or corneal edema when absorbed into eye tissue.
 - Severe respiratory irritant; avoid breathing vapors/mists.
 - Harmful by inhalation and may cause delayed lung injury; may cause nose, throat, and lung irritation.
- Target Organs: respiratory system, skin, eyes, liver, kidney, pancreas, and spleen.**

4- FIRST AID MEASURES :

- **Where a serious accident occurs, seek medical advice immediately.**
- **Change any soiled clothing immediately.**
- **In case of eye contact :** open eyelids as far as possible and flush with large quantities of water for at least fifteen minutes. Seek immediate medical attention.
- **In case of skin contact :** physically remove the product and wash skin thoroughly with soap and water. Seek immediate medical attention. Application of corticosteroid cream has been effective in treating skin irritation.
- **In case of swallowing : DO NOT** induce vomiting! If vomiting does occur, assist patient to prevent aspiration; seek immediate medical attention.
- **In case of inhalation :** remove the patient from the contaminated area, give oxygen if necessary. Consult physician if after-effects occur.

5- FIRE-FIGHTING MEASURES :

5-1 Fire-extinguisher types :

- Use : chemical foam, CO₂, powder, dry sand, limestone powder.
- Where the fire is of major proportions, water spray may also be used.

5-2 Specific fire and explosion risks :

May generate ammonia gas and/or toxic nitrogen oxide gases. Burning produces obnoxious and toxic fumes. Do not allow runoff from fire-fighting to enter drains or water systems. Incomplete combustion may form CO₂.

5-3 specific protective measures during firefighting :

Firefighting personnel should be equipped with insulated, autonomous respiratory protection equipment.

COMMERCIAL NAME : Speedy Hardener**6- ACCIDENTAL RELEASE MEASURES :****6-1 Individual protection :**

Wearing of suitable protective clothing and protective equipment for face/eyes; wear suitable respiratory equipment if ventilation is insufficient. Evacuate personnel to safe areas.

6-2 Environmental protection : Construct dike to prevent run-off. Please see § 12

6-3 Decontamination procedures :

- Contain spilt material in order to avoid its transfer to sewers or rivers and streams.
- Physically remove the material. Open enclosed areas to outside atmosphere to ventilate.
- Cover material with sand, earth, or any other similar absorbent material in order to soak product up. The resulting mix may then be shoveled into cans and removed for disposal (see §13).

7- HANDLING AND STORAGE :**7-1 Handling :**

- Inform personnel of risks associated with the product, the precautions to be taken and procedures to follow where an accident occurs.
- Observe personal hygiene rules to avoid contact with eyes and skin.
- Avoid inhaling vapors produced by the material, **especially when heated and/or sprayed.**
- Install showers and eye baths ("fountain" type).
- Ensure sufficient ventilation, including appropriate local air extraction, in order to comply with workplace exposure limits.
- Wash hands thoroughly at beginning of every work break and at the end of the working day.
- Work stations and the general working area must be kept perfectly clean.
- Avoid exposure to the product of persons having suffered from eczema or still suffering from any skin condition, wound, cut or irritation.

7-2 Storage :

- Keep the material hermetically sealed in its original packaging, protected from humidity and at a temperature between 59 and 77°F / 15 and 25°C in a well-ventilated storage facility.
- Ensure that the floor of the storage area is impermeable and concave in profile in order to provide effective containment.
- Keep the product away from food. Keep away from oxidizers and acids.
- Reproduce labeling on all new packs where original packaging is divided.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION :**8-1 Exposure controls :**

Always maintain workplace airborne contaminants to the lowest possible levels.

8-2 Personal protection :

- respiratory protection : YES, wear appropriate respirator when ventilation is inadequate.
- eye protection : YES, chemical-splash goggles and faceshield
- skin protection : YES, protective gloves, such as nitrile, butyl, PVC, rubber, or neoprene

Do not mix work clothing and normal clothing. Wash hands thoroughly at beginning of every work break and at the end of the working day.

COMMERCIAL NAME : Speedy Hardener**9- PHYSICAL AND CHEMICAL PROPERTIES :**

Physical state : liquid

Color : amber

Odor : irritating

pH : alkaline

Flash point : > 200°F / > 93°C

Decomposition temperature : > 392°F / 200°C

VOC Content : no VOC's in this product

Specific gravity : 1

Solubility : slightly soluble

10- STABILITY AND REACTIVITY :**10-1 Dangerous decomposition by-products :**

- These are non-existent if storage and handling rules are followed (please see also § 5-2).
- Nitrogen oxides, chlorine, nitric acid, ammonia, carbon monoxide, carbon dioxide, aldehydes, flammable hydrocarbon fragments (acetylene) or nitrosamine.

10-2 Hazardous reactions with :

- Avoid oxidizing agents (reaction with peroxides may result in violent explosion); sodium hypochlorite, organic acids, mineral acids, nitrous acid, reactive metals, or materials reactive with hydroxyl compounds.

11- TOXICOLOGICAL INFORMATION :

Effects on eyes : severe eye irritant. **Corrosive (rabbit)**

Effects on skin : severe skin irritant; may cause skin sensitization by contact. **Corrosive (rabbit)**

Inhalation : excessive exposure may cause irritation and or burns to the upper respiratory tract. May lead to sensitization or respiratory system or asthma in predisposed individuals.

Ingestion : may cause gastrointestinal irritation or ulceration. May cause burns of mouth, throat, and stomach. Swallowing will lead to a strong caustic effect on mouth and throat, and to the danger of perforation of the esophagus and/or stomach. **LD50 (rat): 850 mg/kg**

Target Organs: respiratory system, skin, eyes, liver, kidney, liver, pancreas, and spleen.

Lesser exposures can cause damage to the Target Organs and edema of the lungs!

Chronic exposures can cause death from liver and kidney damage!

Carcinogen Status : OSHA - no; IARC Rating - 3; NTP Rating - none; ACGIH - A4

12- ECOLOGICAL INFORMATION :

Ecotoxicity : no data is available on this product.

Environmental fate : no data is available on this product.

Additional information : waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration.

13- DISPOSAL CONSIDERATIONS :

All disposal methods must be in compliance with all Federal, State/Provincial and local regulations. Regulations may vary in different locations. Waste characteristics and compliance with applicable laws are the responsibility solely of the waste generator. Empty containers may not be disposed of unless any remaining material adhering to the internal walls has been removed (see § 6.3).

COMMERCIAL NAME : Speedy Hardener**14- TRANSPORT INFORMATION :****DOT Regulations/Information :****Proper Shipping Name :** Amines, Liquid, Corrosive, N.O.S. (Trimethylhexane-1,6-diamine)**Hazard Class :** 8 (corrosive)**UN/NA Number :** UN2735**Packaging Group :** II**Internal label :** H2265200**15- REGULATORY INFORMATION :****US Federal Regulation :****Toxic Substances Control Act (TSCA) :**

All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

OSHA Hazard Communication Standard Hazard Classes :

Hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA PEL/TWA : (Trimethylhexane-1,6-diamine) - none established**ACGIH TLV/TWA :** (Trimethylhexane-1,6-diamine) - none established**OSHA PEL/TWA :** (Phenol) - 5 ppm (19mg/m³)**ACGIH TLV/TWA :** (Phenol) - 5 ppm (19 mg/m³)**EPA SARA Title III Section 313 Toxic Chemicals :** Phenol (CAS 108-95-2) 10-20%

You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department based on the chemical and quantity stored at your location. Call the EPA Hotline @ (800)535-0202 for more information or further assistance with chemical reporting requirements.

16- OTHER INFORMATION :**HMIS Ratings:****Health. Flammability. Reactivity****3*.1.0.****Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, * = Chronic Health Hazard****REVEALING MODIFICATION : A3.1.PDF**

Revised : 11/21/2008 Supersedes sheet : 4/27/2007 This sheet provides a complement to the product use instructions but does not replace them. The information it contains is based on our current knowledge of the product concerned at the date of drafting. That information is given in good faith and does not in any circumstances remove from the user his duty to be aware of and to follow all legal regulations and statutes covering his activities. The user takes sole responsibility for application of safety measures covering the use of the product he is aware of. We also draw the user's attention to the risks attached to any use of the product for applications for which it was not designed. 03/2006