

Safety Data Sheet (SDS)

OSHA Haz Com Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 09/12/2015

Reviewed on 09/12/2015

* 1 Identification

- **Product identifier**
- **Trade name:** 1000HS ACTIVATOR
- **Product description** 100% Solids Epoxy Floor Coating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Simiron
32700 Industrial Drive
Madison Heights, MI 48071
Phone: (866) 515-8775
Fax: (248) 677-9325
- www.simiron.com
- **Emergency telephone number:** Infotrac: 1-800-535-5053, 1-352-326-2510

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



Health hazard

Suspected of damaging fertility or the unborn child.



Corrosion

Causes severe skin burns and eye damage.



Environment

Toxic to aquatic life with long lasting effects.



Harmful if swallowed.

Harmful in contact with skin.

May cause an allergic skin reaction.

Combustible liquid.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS07



GHS08



GHS09

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- **Signal word** Danger
- **Hazard-determining components of labeling:**
 - 2-piperazin-1-ylethylamine
 - 4-nonylphenol, branched
 - Poly(propylene glycol) bis(2-aminopropyl ether)
- **Hazard statements**
 - Combustible liquid.
 - Harmful if swallowed or in contact with skin.
 - Causes severe skin burns and eye damage.
 - May cause an allergic skin reaction.
 - Suspected of damaging fertility or the unborn child.
 - Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 - Do not breathe dust/fume/gas/mist/vapours/spray.
 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Use personal protective equipment as required.
 - Avoid release to the environment.
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Specific treatment (see on this label).
 - Specific measures (see on this label).
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Wash contaminated clothing before reuse.
 - Store locked up.
 - Store in a well-ventilated place. Keep cool.
 - Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



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



* 3 Composition/information on ingredients

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

- **Dangerous components:**

9046-10-0	Poly(propylene glycol) bis(2-aminopropyl ether)	25-50%
	☞ Skin Corr. 1A, H314; H402; Aquatic Chronic 3, H412	

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140-31-8	2-piperazin-1-ylethylamine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; H227; Aquatic Chronic 3, H412	25-50%
84852-15-3	4-nonylphenol, branched ⚠ Repr. 2, H361; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	15-35%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
 Immediately remove any clothing soiled by the product.
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
 Supply fresh air and to be sure call for a doctor.
 In case of unconsciousness, place patient securely in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
 Immediately call a doctor.
 Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
 No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
 CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).
 Use neutralizing agent.
 Dispose contaminated material as waste according to section 13.
 Ensure adequate ventilation.
- **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.

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7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Protect from heat.
Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities**
- **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:**
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **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.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Select glove material based on penetration times, rates of diffusion and 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.

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- **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

- **Eye protection:** Tightly sealed goggles

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Color: Clear

- **Odor:** Ammonia-like

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: 220 °C (428 °F)

- **Flash point:** 92 °C (198 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 240 °C (464 °F)

- **Decomposition temperature:** Not determined.

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

- **Danger of explosion:** Not determined.

- **Explosion limits:**

Lower: 0.7 Vol %

Upper: 10.5 Vol %

- **Vapor pressure @ 20 °C (68 °F):** 0.1 hPa

- **Density @ 20 °C (68 °F):** 0.98 g/cm³ (8.178 lbs/gal)

- **Relative density:** Not determined.

- **Vapour density:** Not determined.

- **Evaporation rate:** Not determined.

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

Dynamic: Not determined.

Kinematic: Not determined.

- **Solvent content:**

Organic solvents: 0.0 %

- **Other information:** No further relevant information available.

10 Stability and reactivity

- **Reactivity:** No further relevant information available.

- **Chemical stability:** Product is stable under normal conditions.

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- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

9046-10-0 Poly(propylene glycol) bis(2-aminopropyl ether)

Oral	LD50	2885.3 mg/kg (rat)
Dermal	LD50	2980 mg/kg (rabbit) Skin - rabbit - Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. - OECD Test Guideline 404.
Inhalative	LC50/4 h	>0.74 mg/l (rat) (8 hours)

140-31-8 2-piperazin-1-ylethylamine

Oral	LD50	2140 mg/kg (rat)
Dermal	LD50	880 mg/kg (rabbit)
Inhalative	LC50/4 h	100 mg/l (Trout)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Corrosive effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Corrosive
Irritant
Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Carcinogenic categories**

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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12 Ecological information

• **Toxicity**

• **Aquatic toxicity:**

140-31-8 2-piperazin-1-ylethylamine

EC50 32 mg/kg (daphnia)

• **Persistence and degradability** No further relevant information available.

• **Bioaccumulative potential** No further relevant information available.

• **Mobility in soil** No further relevant information available.

• **Ecotoxicological effects:**

• **Remark:** Toxic for fish

• **Additional ecological information:**

• **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **Other adverse effects** No further relevant information available.

13 Disposal considerations

• **Waste treatment methods**

• **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

• **Uncleaned packagings:**

• **Recommendation:** Disposal must be made according to official regulations.

* 14 Transport information

• **UN-Number**

• **DOT, ADR, IMDG, IATA**

UN2927

• **UN proper shipping name**

• **DOT**

Toxic liquids, corrosive, organic, n.o.s. (4-nonylphenol, branched , Poly(propylene glycol) bis(2-aminopropyl ether))

• **ADR**

UN2927 Toxic liquids, corrosive, organic, n.o.s. (4-nonylphenol, branched, Poly(propylene glycol) bis(2-aminopropyl ether)), ENVIRONMENTALLY HAZARDOUS

• **IMDG**

TOXIC LIQUID, CORROSIVE, ORGANIC, N. O. S. (4 - nonylphenol, branched , Poly(propylene glycol) bis(2-aminopropyl ether)), MARINE POLLUTANT

• **IATA**

TOXIC LIQUID, CORROSIVE, ORGANIC, N. O. S. (4 - nonylphenol, branched , Poly(propylene glycol) bis(2-aminopropyl ether))

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· **Transport hazard class(es)**

· **DOT**



- **Class** 6.1 Toxic substances.
- **Label** 6.1+8

· **ADR**



- **Class** 6.1 (TC1) Toxic substances
- **Label** 6.1+8

· **IMDG**



- **Class** 6.1 Toxic substances.
- **Label** 6.1+8

· **IATA**



- **Class** 6.1 Toxic substances.
 - **Label** 6.1+8
 - **Packing group**
 - **DOT, ADR, IMDG, IATA** II
 - **Environmental hazards:** Product contains environmentally hazardous substances: 4-nonylphenol, branched
 - **Marine pollutant:** Yes
 - **Special marking (ADR):** Symbol (fish and tree)
 - **Special precautions for user:** Symbol (fish and tree)
 - **Danger code (Kemler):** Warning: Toxic substances
 - **EMS Number:** 68
 - **Segregation groups:** F-A,S-B
 - **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Alkalis
 - **UN "Model Regulation":** Not applicable.
- UN2927, Toxic liquids, corrosive, organic, n.o.s. (4-nonylphenol, branched, Poly(propylene glycol) bis(2-aminopropyl ether)), ENVIRONMENTALLY HAZARDOUS, 6.1 (8), II

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* 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- 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**

• **Chemicals known to cause cancer:**

None of the ingredients is listed.

• **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.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

Corrosive to eyes

• **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms**



GHS05 GHS07 GHS08 GHS09

• **Signal word** Danger

• **Hazard-determining components of labeling:**

2-piperazin-1-ylethylamine

4-nonylphenol, branched

Poly(propylene glycol) bis(2-aminopropyl ether)

• **Hazard statements**

Combustible liquid.

Harmful if swallowed or in contact with skin.

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LD50: Lethal dose, 50 percent

: Flammable liquids, Hazard Category 4

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

: Hazardous to the aquatic environment - AcuteHazard, Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

• *** Data compared to the previous version altered.**

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