

## Safety Data Sheet

acc. to OSHA HCS  
10-097-1

Printing date 08/03/2017

Reviewed on 08/03/2017

### 1 Identification

**- Product identifier**

- **Trade name:** Epoxy Kit

- **Synonyms:** 909HV - High Viscosity Epoxy for Bonding Fiberglass Composites - Part B

- **Part number:** 10-097-1

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

Hastings Hot Line Tools and Equipment  
770 Cook Rd  
Hastings MI 49058 USA  
(269) 945-9541

- **Information department:** Product safety department

- **Emergency telephone number:**

United States: 1-800-424-9300  
International: +1-703-527-3887

### \* 2 Hazard(s) identification

**- Classification of the substance or mixture**



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

**- Label elements**

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

- **Hazard pictograms**



GHS05 GHS07 GHS08

- **Signal word** Danger

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

Nonylphenol  
Epoxy curing agent  
Bisphenol-A epoxy resin  
Benzyl alcohol

- **Hazard statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.

- **Precautionary statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dusts or mists.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 Wash face, hands and any exposed skin thoroughly after handling.

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P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

**- Classification system:****- NFPA ratings (scale 0 - 4)**

3	1	0	Health = 3
			Fire = 1
			Reactivity = 0

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

HEALTH 3	Health = *3
FIRE 1	Fire = 1
REACTIVITY 0	Reactivity = 0

**- Other hazards****- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## \* 3 Composition/information on ingredients

**- Chemical characterization: Mixtures**

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

**- Dangerous components:**

Identifying number	Chemical name	Hazard statements	Concentration
471-34-1	calcium carbonate		60-69%
84852-15-3	Nonylphenol	Repr. 2, H361; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	10-19%
112-57-2	Epoxy curing agent	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	10-19%
100-51-6	Benzyl alcohol	Acute Tox. 4, H302; Acute Tox. 4, H332	10-19%
25068-38-6	Bisphenol-A epoxy resin	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	1-4%

## 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 stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

**- 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.

**- Information for 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.

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## 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Wear protective clothing.
- **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:**  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Dispose of the collected material according to regulations.
- **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.
- **Protective Action Criteria for Chemicals**

### - PAC-1:

471-34-1	calcium carbonate	45 mg/m <sup>3</sup>
84852-15-3	Nonylphenol	3.9 mg/m <sup>3</sup>
112-57-2	Epoxy curing agent	15 mg/m <sup>3</sup>
100-51-6	Benzyl alcohol	30 ppm
25068-38-6	Bisphenol-A epoxy resin	90 mg/m <sup>3</sup>
112945-52-5	Silicon dioxide, amorphous	18 mg/m <sup>3</sup>

### - PAC-2:

471-34-1	calcium carbonate	210 mg/m <sup>3</sup>
84852-15-3	Nonylphenol	43 mg/m <sup>3</sup>
112-57-2	Epoxy curing agent	130 mg/m <sup>3</sup>
100-51-6	Benzyl alcohol	52 ppm
25068-38-6	Bisphenol-A epoxy resin	990 mg/m <sup>3</sup>
112945-52-5	Silicon dioxide, amorphous	100 mg/m <sup>3</sup>

### - PAC-3:

471-34-1	calcium carbonate	1,300 mg/m <sup>3</sup>
84852-15-3	Nonylphenol	260 mg/m <sup>3</sup>
112-57-2	Epoxy curing agent	790 mg/m <sup>3</sup>
100-51-6	Benzyl alcohol	740 ppm
25068-38-6	Bisphenol-A epoxy resin	5,900 mg/m <sup>3</sup>
112945-52-5	Silicon dioxide, amorphous	630 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
  - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** No special requirements.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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 item 7.
- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<b>471-34-1 calcium carbonate</b>	
PEL	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV	TLV withdrawn
<b>112-57-2 Epoxy curing agent</b>	
WEEL	Long-term value: 5 mg/m <sup>3</sup> Skin; DSEN
<b>100-51-6 Benzyl alcohol</b>	
WEEL	Long-term value: 10 ppm

- **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.  
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.  
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.  
Nitrile rubber, NBR

- **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.

- **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

## \* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Viscous
      - **Color:** Straw
    - **Odor:** Amine-like
    - **Odor threshold:** Not determined.

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- <b>pH-value:</b>	Not determined.
- <b>Change in condition</b>	
- <b>Melting point/Melting range:</b>	Undetermined.
- <b>Boiling point/Boiling range:</b>	>200 °C (>392 °F)
- <b>Flash point:</b>	101 °C (214 °F)
- <b>Flammability (solid, gaseous):</b>	Not applicable.
- <b>Ignition temperature:</b>	435 °C (815 °F)
- <b>Decomposition temperature:</b>	Not determined.
- <b>Auto igniting:</b>	Product is not selfigniting.
- <b>Danger of explosion:</b>	Product does not present an explosion hazard.
- <b>Explosion limits:</b>	
- <b>Lower:</b>	Not determined.
- <b>Upper:</b>	Not determined.
- <b>Vapor pressure:</b>	Not determined.
- <b>Density:</b>	Not determined.
- <b>Relative density</b>	Not determined.
- <b>Vapor density</b>	Not determined.
- <b>Evaporation rate</b>	Not determined.
- <b>Solubility in / Miscibility with</b>	
- <b>Water:</b>	Not miscible or difficult to mix.
- <b>Partition coefficient (n-octanol/water):</b>	Not determined.
- <b>Viscosity:</b>	
- <b>Dynamic:</b>	Not determined.
- <b>Kinematic:</b>	Not determined.
- <b>Solvent content:</b>	
- <b>Organic solvents:</b>	9.8 %
- <b>VOC content:</b>	9.80 % 98.0 g/l / 0.82 lb/gl
- <b>Solids content:</b>	85.3 %
- <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

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

- <b>LD/LC50 values that are relevant for classification:</b>		
<b>471-34-1 calcium carbonate</b>		
Oral	LD50	6,450 mg/kg (rat)
<b>84852-15-3 Nonylphenol</b>		
Oral	LD50	500 mg/kg (ATE)
<b>112-57-2 Epoxy curing agent</b>		
Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	660 mg/kg (rabbit)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

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Inhalative LC50/4 h | 11 mg/l (ATE)

**- Primary irritant effect:**

- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.

- **Sensitization:** Sensitization possible through skin contact.

**- Additional toxicological information:**

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

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic 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.

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

None of the ingredients is listed.

**12 Ecological information****- Toxicity**

- **Aquatic toxicity:** No further relevant information available.

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

**- Behavior in environmental systems:**

- **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, IMDG, IATA**

UN1760

**- UN proper shipping name**

- **DOT**

- **IMDG**

- **IATA**

Corrosive liquids, n.o.s. (Nonylphenol, Tetraethylenepentamine)  
 CORROSIVE LIQUID, N.O.S. (Nonylphenol,  
 TETRAETHYLENENPENTAMINE), MARINE POLLUTANT  
 CORROSIVE LIQUID, N.O.S. (Nonylphenol,  
 TETRAETHYLENENPENTAMINE)

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<b>- Transport hazard class(es)</b>	
<b>- DOT</b>	
	
<b>- Class</b>	8 Corrosive substances
<b>- Label</b>	8
<b>- IMDG</b>	
 	
<b>- Class</b>	8 Corrosive substances
<b>- Label</b>	8
<b>- IATA</b>	
	
<b>- Class</b>	8 Corrosive substances
<b>- Label</b>	8
<b>- Packing group</b>	
<b>- DOT, IMDG, IATA</b>	III
<b>- Environmental hazards:</b>	
<b>- Marine pollutant:</b>	Product contains environmentally hazardous substances: Nonylphenol Symbol (fish and tree)
<b>- Special precautions for user</b>	
<b>- Danger code (Kemler):</b>	Warning: Corrosive substances 80
<b>- EMS Number:</b>	F-A,S-B
<b>- Segregation groups</b>	Alkalis
<b>- Stowage Category</b>	A
<b>- Stowage Code</b>	SW2 Clear of living quarters.
<b>- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	
	Not applicable.
<b>- Transport/Additional information:</b>	
<b>- DOT</b>	
<b>- Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
<b>- IMDG</b>	
<b>- Limited quantities (LQ)</b>	5L
<b>- Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>- UN "Model Regulation":</b>	
	UN 1760 CORROSIVE LIQUIDS, N.O.S. (NONYLPHENOL, TETRAETHYLENEMPENTAMINE), 8, III, ENVIRONMENTALLY HAZARDOUS

## 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):**

84852-15-3 | Nonylphenol

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

calcium carbonate

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Nonylphenol
Epoxy curing agent
Benzyl alcohol
Bisphenol-A epoxy resin
<b>- Proposition 65</b>
<b>- Chemicals known to cause cancer:</b>
None of the ingredients is listed.
<b>- Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.
<b>- Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.
<b>- Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.
<b>- Carcinogenic categories</b>
<b>- EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.
<b>- TLV (Threshold Limit Value established by ACGIH)</b>
None of the ingredients is listed.
<b>- NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.
<b>- Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.

## 16 Other information

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.

- **Department issuing SDS:** ND Industries, Inc. - Safety, Health and Environmental Affairs

- **Contact:** Safety, Health and Environmental Affairs

- **Date of preparation / last revision** 08/03/2017 / 4

- **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

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- \* **Data compared to the previous version altered.**

- **Disclaimer**

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