



# Safety Data Sheet

## STEELBOND® -H-100 1LB. REPAIR KIT HARDENER

SDS Revision  
Date: 05/30/2021

### 1. Identification

#### 1.1. Product identifier

**Product Identity** STEELBOND® -H-100 1LB. REPAIR KIT HARDENER  
**Alternate Names** STEELBOND® -H-100 1LB. REPAIR KITHARDENER

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** Metal Filled Epoxy Resin .  
**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** Hopper International, INC  
PO Box 6988  
Hilton Head Island, SC 29938

#### Emergency

**CHEMTREC (USA)** (800) 424-9300  
**Customer Service: Hopper International, INC** (843) 363-5681

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Acute Tox. 5;H313 May be harmful in contact with skin. (Not adopted by US OSHA)  
Skin Corr. 1B;H314 Causes severe skin burns and eye damage.  
Eye Dam. 1;H318 Causes serious eye damage.  
Skin Sens. 1;H317 May cause an allergic skin reaction.

#### 2.2. Label elements



**Danger**

H313 May be harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

#### [Prevention]:

P261 Avoid breathing dust, fume, gas, mist, vapors, spray.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.



**Safety Data Sheet**  
**STEELBOND® -H-100 1LB. REPAIR**  
**KIT HARDENER**

SDS Revision  
 Date: 05/30/2021

P280 Wear protective gloves, eye protection, face protection.

**[Response]:**

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor

P302+352 IF on skin: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove , Take off immediately all contaminated clothing. Rinse skin with water , shower.

P304+312 If inhaled: Call a poison center or doctor if you feel unwell.

P305+351+338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor

P321 Specific treatment (see information on this label).

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P363 Wash contaminated clothing before reuse.

**[Storage]:**

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents, container in accordance with local , national regulations.

**3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
<b>AMIDE RESIN</b> CAS Number: 0068082-29-1	50 - 75	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Dam. 1;H318 Aquatic Chronic 3;H412	[1]
<b>Triethylene tetramine</b> CAS Number: 0000112-24-3	25 - 50	Acute Tox. 4;H312 Skin Corr. 1B;H314 Skin Sens. 1;H317 Aquatic Chronic 3;H412	[1]
<b>Amorphous silica, hydrophobic</b> CAS Number: 0067762-90-7	5 - 10	Not Classified	[1]
<b>Titanium dioxide</b> CAS Number: 0013463-67-7	1 - 5	Not Classified	[1][2]
<b>Magnesium silicate talc</b> CAS Number: 0014807-96-6	1 - 5	Not Classified	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.



**Safety Data Sheet**  
**STEELBOND® -H-100 1LB. REPAIR**  
**KIT HARDENER**

SDS Revision  
Date: 05/30/2021

**Section 4. First aid measures**

**4.1. Description of first aid measures**

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Overview</b>	Primary route(s) of entry: Ingestion, skin absorption, inhalation, eyes. Health hazard/effects of over exposure: Inhalation: Heated vapors may cause respiratory irritation. Eyes: Moderately irritating. Skin: Mildly irritating. May cause allergic reaction evidenced by rashes. Ingestion: No specific information. Slightly toxic. Chronic Effects of Overexposure: Prolonged contact with the skin may result in skin irritation and sensitization. Carcinogenicity: This material is not considered to be carcinogenic by NTP, IARC or OSHA. Mutagenicity (Ames Test): Both positive and negative results for CAS# 25068-38-6. Medical conditions aggravated by exposure: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing skin or lung allergies may increase the chance of developing increased allergy symptoms. Treat symptomatically. See section 2 for further details.
<b>Eyes</b>	Causes serious eye damage.
<b>Skin</b>	May be harmful in contact with skin. May cause an allergic skin reaction. Causes severe skin burns and eye damage.

**Section 5. Fire-fighting measures**

**5.1. Extinguishing media**

Use water fog, foam, carbon dioxide (CO<sub>2</sub>) or dry chemical

**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition: Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide, ammonia, and nitrogen oxides.

Avoid breathing dust, fume, gas, mist, vapors, and spray.

**5.3. Advice for fire-fighters**

Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Toxic fumes will be evolved if this material burns.



**Safety Data Sheet**  
**STEELBOND® -H-100 1LB. REPAIR**  
**KIT HARDENER**

SDS Revision  
 Date: 05/30/2021

Wear self-contained breathing apparatus and complete personal protective equipment. Remove all ignition sources. Use a water spray to cool fire exposed containers.

ERG Guide No. ----

**Section 6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).

**6.2. Environmental precautions**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3. Methods and material for containment and cleaning up**

Steps to be taken in case material is released or spilled: Dike spill. Absorb with inert material and collect for disposal. Flush area with water. Prevent washings from entering waterways.

**Section 7. Handling and storage**

**7.1. Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.

See section 2 for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**

Incompatible materials: Strong oxidizing agents and mineral acids. Uncontrolled curing with amine curing agents in masses greater than 2 inches thick.

See section 2 for further details. - [Storage]:

**7.3. Specific end use(s)**

No data available.

**Section 8. Exposure controls and personal protection**

**8.1. Control parameters**

**Exposure**

CAS No.	Ingredient	Source	Value
0000112-24-3	Triethylene tetramine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0013463-67-7	Titanium dioxide	OSHA	TWA 15 mg/m3
		ACGIH	TWA: 10 mg/m3
		NIOSH	Footnote ca



# Safety Data Sheet

## STEELBOND® -H-100 1LB. REPAIR KIT HARDENER

SDS Revision  
Date: 05/30/2021

0014807-96-6	Magnesium silicate talc	OSHA	TWA 20 mppcf
		ACGIH	Containing asbestos fibres TWA: 0.1 f/cc (K) A1, 1 Containing no asbestos fibres TWA:2 mg/m3 (E) (respirable)
		NIOSH	TWA 2 mg/m3 (resp)
0067762-90-7	Amorphous silica, hydrophobic	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0068082-29-1	AMIDE RESIN	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

### 8.2. Exposure controls

<b>Respiratory</b>	Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to vapor/mist is likely unless levels are below applicable limits.
<b>Eyes</b>	Chemical splash goggles or safety glasses with side shields.
<b>Skin</b>	For operations where contact can occur, coveralls, apron and rubber foot covering are recommended. A safety shower and eye wash facility should be available. For operations where contact can occur, wear impervious gloves (neoprene, nitrile).
<b>Engineering Controls</b>	Local exhaust is recommended when appropriate to control employee exposure. Mechanical is not recommended as the sole means of controlling employee exposure.
<b>Other Work Practices</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

## Section 9. Physical and chemical properties

<b>Appearance</b>	White paste Liquid
<b>Odor</b>	Amine odor
<b>Odor threshold</b>	Not determined
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	(°F): > 480°F(PMCC)
<b>Flash Point</b>	(method used): > 240°F (PMCC)
<b>Evaporation rate (Ether = 1)</b>	(n-Butyl Acetate = 1): N.A.
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> N.A. <b>Upper Explosive Limit:</b> N.A.
<b>Vapor pressure (Pa)</b>	(mmHg) @ 20°C: N.E
<b>Vapor Density</b>	(Air = 1): > 1
<b>Relative Density</b>	Not Measured
<b>Solubility in Water</b>	Insoluble
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured



# Safety Data Sheet

## STEELBOND® -H-100 1LB. REPAIR KIT HARDENER

SDS Revision  
Date: 05/30/2021

<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured
<b>Percent Volatile (by volume)</b>	0%
<b>Weight per gallon</b>	9.2 lbs.

**9.2. Other information**

No other relevant information.

### Section 10. Stability and reactivity

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Excessive heat.

**10.5. Incompatible materials**

Strong oxidizing agents and mineral acids. Uncontrolled curing with amine curing agents in masses greater than 2 inches thick.

**10.6. Hazardous decomposition products**

Fumes produced when heated to decomposition may include: carbon monoxide, carbon dioxide, ammonia, and nitrogen oxides.

### Section 11. Toxicological information

**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
AMIDE RESIN - (68082-29-1)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	---	---	---
Triethylene tetramine - (112-24-3)	2,780.00, Rat - Category: 5	---	---	---	---
Amorphous silica, hydrophobic - (67762-90-7)	---	>2,000.00, Rat - Category: 5	---	---	---
Titanium dioxide - (13463-67-7)	2> 5,000.00, Rat - Category: NA	---	---	6.82, Rat - Category: NA	---



# Safety Data Sheet

## STEELBOND® -H-100 1LB. REPAIR KIT HARDENER

SDS Revision  
Date: 05/30/2021

Magnesium silicate talc - (14807-96-6)	> 5,000.00, Rat - Category: NA	---	---	---	---
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### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000112-24-3	Triethylene tetramine	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0013463-67-7	Titanium dioxide	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0014807-96-6	Magnesium silicate talc	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0067762-90-7	Amorphous silica, hydrophobic	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0068082-29-1	AMIDE RESIN	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	5	May be harmful in contact with skin. (Not adopted by US OSHA)
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable



# Safety Data Sheet

## STEELBOND® -H-100 1LB. REPAIR KIT HARDENER

SDS Revision  
Date: 05/30/2021

### Section 12. Ecological information

#### 12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
AMIDE RESIN - (68082-29-1)	7.07, Danio rerio	7.07, Daphnia magna	4.34 (72 hr), Pseudokirchnerella subcapitata
Triethylene tetramine - (112-24-3)	495.00, Pimephales promelas	33.90, Daphnia magna	20.00 (72 hr), Selenastrum capricornutum
Amorphous silica, hydrophobic - (67762-90-7)	> 5,000.00, Fish	> 5,000.00, Daphnia magna	5,001.00 (72 hr), Algae
Titanium dioxide - (13463-67-7)	294.00, Oryzias latipes	501.00, Daphnia magna	101.00 (72 hr), Pseudokirchneriella subcapitata
Magnesium silicate talc - (14807-96-6)	, Fishes species	36,812.36, Daphnid species	7,202.70 (96 hr), Green algae

#### 12.2. Persistence and degradability

There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

#### 12.6. Other adverse effects

No data available.

### Section 13. Disposal considerations

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.



**Safety Data Sheet**  
**STEELBOND® -H-100 1LB. REPAIR**  
**KIT HARDENER**

SDS Revision  
 Date: 05/30/2021

**Section 14. Transport information**

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	UN1759	UN1759	UN1759
<b>14.2. UN proper shipping name</b>	UN1759, Corrosive solids, n.o.s., (Triethylenetetramine). , 8, III	Corrosive solids, n.o.s., (Triethylenetetramine).	Corrosive solids, n.o.s., (Triethylenetetramine).
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not regulated	<b>IMDG:</b> Not regulated <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not regulated
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>	Not Applicable		

**Section 15. Regulatory information**

**Regulatory Overview**      The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)**      All components of this material are either listed or exempt from listing on the TSCA Inventory.

**US EPA Tier II Hazards**

**Fire:** No  
**Sudden Release of Pressure:** No  
**Reactive:** No  
**Immediate (Acute):** Yes  
**Delayed (Chronic):** No

**EPCRA 302 Extremely Hazardous:**  
 To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**  
 To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**  
 To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**  
 To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**  
 To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**  
 To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**  
 This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



**Safety Data Sheet**  
**STEELBOND® -H-100 1LB. REPAIR**  
**KIT HARDENER**

**SDS Revision**  
**Date: 05/30/2021**

**Section 16. Other information**

**SDS Revision Date** 05/30/2021

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

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