

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

### 1. Identification

#### 1.1. Product identifier

**Product Identity** ALUMBOND® H-45 & MASTERCOOL 90934  
2oz./56.8gr REPAIR KIT HARDENER

**Alternate Names** ALUMBOND® H-45 & MASTERCOOL 90934  
2oz./56.8gr REPAIR KITHARDENER

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

**Intended use** See Technical Data Sheet.

**Application Method** See Technical Data Sheet.

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

**Company Name** Mastercool Inc.  
1 Aspen Drive  
Randolph, NJ 07869

#### Emergency

**CHEMTREC (USA)** (800) 424-9300  
**Customer Service: Mastercool Inc.** (973) 252-9119

### 2. Hazard(s) identification

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

Skin Irrit. 2;H315 Causes skin irritation.  
Eye Dam. 1;H318 Causes serious eye damage.  
Skin Sens. 1;H317 May cause an allergic skin reaction.  
Aquatic Chronic 3;H412 Harmful to aquatic life with long lasting effects.  
Combustible Dust May form combustible dust concentrations in air.

#### 2.2. Label elements



**Danger**

H315 Causes skin irritation.

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.  
May form combustible dust concentrations in air.

### **[Prevention]:**

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.  
P240 Ground / bond container and receiving equipment.  
P241 Use explosion-proof electrical / ventilating / light / equipment.  
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.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.

### **[Response]:**

P302+352 IF ON SKIN: Wash with plenty of soap and water.  
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 / physician.  
P321 Specific treatment (see information on this label).  
P333+313 If skin irritation or a rash occurs: Get medical advice / attention.  
P362 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before reuse.  
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

### **[Storage]:**

No GHS storage statements

### **[Disposal]:**

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

## 3. Composition/information on ingredients

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

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
Nepheline syenite CAS Number: 0037244-96-5	50 - 75	Combustible Dust	[1]
AMIDE RESIN CAS Number: 0068082-29-1	25 - 50	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Dam. 1;H318 Aquatic Chronic 3;H412	[1]
Tall oil fatty acids, reaction product with Tetraethylene pentamine CAS Number: 0068953-36-6	5 - 10	Eye Dam. 1;H318 Aquatic Chronic 2;H411	[1]
2,4,6-Tri(dimethylaminomethyl)phenol CAS Number: 0000090-72-2	1 - 5	Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315	[1]
Tetraethylenepentamine CAS Number: 0000112-57-2	1 - 5	Acute Tox. 4;H312 Acute Tox. 4;H302 Skin Corr. 1B;H314 Skin Sens. 1;H317 Aquatic Chronic 2;H411	[1]
Amorphous silica, hydrophobic CAS Number: 0067762-90-7	1 - 5	Not Classified	[1]

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 classified 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.

### 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

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



**Mastercool®**  
"World Class Quality"

SDS Revision Date:

02/02/2023

<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 cause an allergic skin reaction. Causes skin irritation.

### 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.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Avoid breathing dust / fume / gas / mist / vapors / 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.

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

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

### 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.

Avoid dust generation when handling product to minimize dust explosion potential.

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

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

Keep container tightly closed.

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
0000090-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0000112-57-2	Tetraethylenepentamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0037244-96-5	Nepheline syenite	OSHA	No Established Limit
		ACGIH	No Established Limit

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

		NIOSH	No Established Limit
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
0068953-36-6	Tall oil fatty acids, reaction product with Tetraethylene pentamine	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

### 9.1. Information on basic 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>	Not Measured
<b>Flash Point</b>	(method used): > 240°F (PMCC)
<b>Evaporation rate (Ether = 1)</b>	N.A.
<b>Flammability (solid, gas)</b>	Not Applicable

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

<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: Not determined
<b>Vapor Density</b>	(Air = 1): > 1
<b>Specific Gravity</b>	Not Measured
<b>Solubility in Water</b>	Slight
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<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>	13 lbs.
<b>9.2. Other information</b>	
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

## Safety Data Sheet

# ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

### 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
Nepheline syenite - (37244-96-5)	No data available	No data available	No data available	No data available	No data available
AMIDE RESIN - (68082-29-1)	>2,000.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available	No data available	No data available
Tall oil fatty acids, reaction product with Tetraethylene pentamine - (68953-36-6)	>2,000.00, Rat - Category: NA	No data available	No data available	No data available	No data available
2,4,6-Tri(dimethylaminomethyl)phenol - (90-72-2)	2,169.00, Rat - Category: 4	1,280.00, Rat - Category: 4	No data available	No data available	No data available
Tetraethylenepentamine - (112-57-2)	500.00, Point Estimate - Category: 4	1,100.00, Point Estimate - Category: 4	No data available	No data available	No data available
Amorphous silica, hydrophobic - (67762-90-7)	No data available	>2,000.00, Rat - Category: 5	No data available	No data available	No data available

### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000090-72-2	2,4,6-Tri(dimethylaminomethyl)phenol	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;
0000112-57-2	Tetraethylenepentamine	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;
0037244-96-5	Nepheline syenite	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;
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;
0068953-36-6		OSHA	Regulated Carcinogen: No



## Safety Data Sheet

# ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

Tall oil fatty acids, reaction product with Tetraethylene pentamine	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)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
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

## Section 12. Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Nepheline syenite - (37244-96-5)	Not Available	Not Available	Not Available
AMIDE RESIN - (68082-29-1)	7.07, Danio rerio	7.07, Daphnia magna	4.34 (72 hr), Pseudokirchnerella subcapitata
Tall oil fatty acids, reaction product with Tetraethylene pentamine - (68953-36-6)	9.00, Fish (Piscis)	9.00, Daphnia magna	9.00 (72 hr), Algae
2,4,6-Tri(dimethylaminomethyl)phenol - (90-72-2)	Not Available	Not Available	Not Available
Tetraethylenepentamine - (112-57-2)	420.00, Poecilia reticulata	24.00, Daphnia magna	2.00 (72 hr), Pseudokirchneriella subcapitata
Amorphous silica, hydrophobic - (67762-90-7)	> 5,000.00, Fish	> 5,000.00, Daphnia magna	5,001.00 (72 hr), Algae

### 12.2. Persistence and degradability

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT HARDENER



SDS Revision Date:

02/02/2023

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.

### Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
<b>14.1. UN number</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>			
	No further information		

### Section 15. Regulatory information

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
<b>Toxic Substance Control Act ( TSCA)</b>	All components of this material are either listed or exempt from listing on the TSCA Inventory.

**Safety Data Sheet**  
**ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT**  
**HARDENER**



SDS Revision Date:

02/02/2023

**WHMIS 1988 Classification** D2B E

**US EPA Tier II Hazards** Fire: Yes

**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.

**Section 16. Other information**

**SDS Revision Date** 04/10/2018

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:

H302 Harmful if swallowed.

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.

**Safety Data Sheet**  
**ALUMBOND® H-45 & MASTERCool 90934 2oz./56.8gr REPAIR KIT**  
**HARDENER**



**Mastercool®**  
*"World Class Quality"*

SDS Revision Date:

02/02/2023

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

End of Document

**Safety Data Sheet**  
**ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT**  
**RESIN**



SDS Revision Date:

02/02/2023

**1. Identification**

**1.1. Product identifier**

**Product Identity** ALUMBOND® H-45 & MASTERCOOL 90934  
2oz./56.8gr REPAIR KIT RESIN

**Alternate Names** ALUMBOND® H-45 & MASTERCOOL  
909342oz./56.8gr REPAIR KIT RESIN

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

**Intended use** See Technical Data Sheet.

**Application Method** See Technical Data Sheet.

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

**Company Name** Mastercool Inc.  
1 Aspen Drive  
Randolph, NJ 07869

**Emergency**

**CHEMTREC (USA)** (800) 424-9300

**Customer Service: Mastercool Inc.** (973) 252-9119

**2. Hazard(s) identification**

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

Skin Irrit. 2;H315 Causes skin irritation.  
Eye Irrit. 2;H319 Causes serious eye irritation.  
Skin Sens. 1;H317 May cause an allergic skin reaction.  
Aquatic Chronic 2;H411 Toxic to aquatic life with long lasting effects.

**2.2. Label elements**



**Danger**

H315 Causes skin irritation.

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCool 90934 2oz./56.8gr REPAIR KIT RESIN



SDS Revision Date:

02/02/2023

H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

**[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.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P302+352 IF ON SKIN: Wash with plenty of soap and water.  
 P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
 P321 Specific treatment (see information on this label).  
 P333+313 If skin irritation or a rash occurs: Get medical advice / attention.  
 P337+313 If eye irritation persists: Get medical advice / attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P363 Wash contaminated clothing before reuse.  
 P391 Collect spillage.

**[Storage]:**

No GHS storage statements

**[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
Bisphenol A - Epichlorohydrin polymer CAS Number: 0025068-38-6	50 - 75	Eye Irrit. 2;H319 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411	[1]
Aluminum powder (Al) (stabilized) CAS Number: 0007429-90-5	25 - 50	Flam. Sol. 1;H228	[1][2]
Bisphenol F epoxy resin CAS Number: 0028064-14-4	1 - 5	Skin Irrit. 2;H315 Eye Irrit. 2;H319	[1]

## Safety Data Sheet

# ALUMBOND® H-45 & MASTERCool 90934 2oz./56.8gr REPAIR KIT RESIN



SDS Revision Date:

02/02/2023

		Skin Sens. 1;H317 Aquatic Chronic 2;H411	
Amorphous silica, hydrophobic CAS Number: 0067762-90-7	1 - 5	Not Classified	[1]

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 classified 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.

## 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 irritation.
<b>Skin</b>	May cause an allergic skin reaction. Causes skin irritation.

**Safety Data Sheet**  
**ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT**  
**RESIN**



SDS Revision Date:

02/02/2023

**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 / spray.

**5.3. Advice for fire-fighters**

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)**



# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT RESIN



SDS Revision Date:

02/02/2023

No data available.

### Section 8. Exposure controls and personal protection

#### 8.1. Control parameters

##### Exposure

CAS No.	Ingredient	Source	Value
0007429-90-5	Aluminum	OSHA	TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp)
		ACGIH	TWA: 1.0 mg/m3
		NIOSH	TWA 10 mg/m3 (total) TWA 5 mg/m3 (resp)
0025068-38-6	Bisphenol A - Epichlorohydrin polymer	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0028064-14-4	Bisphenol F epoxy resin	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
0067762-90-7	Amorphous silica, hydrophobic	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.

### Section 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT RESIN



SDS Revision Date:

02/02/2023

<b>Appearance</b>	Silver Paste Liquid
<b>Odor</b>	Odorless
<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>	> 500°F (PMCC)
<b>Flash Point</b>	(method used): > 450°F (PMCC)
<b>Evaporation rate (Ether = 1)</b>	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: < 1mm
<b>Vapor Density</b>	(Air = 1): > 1
<b>Specific Gravity</b>	Not Measured
<b>Solubility in Water</b>	Insoluble
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<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>	12.8 lbs.

### 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous polymerization may occur if product is not handled as per instructions.

### 10.2. Chemical stability

This product requires another product to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.

### 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.

## Safety Data Sheet

# ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT RESIN



SDS Revision Date:

02/02/2023

### 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

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations this preparation may be an irritant and a skin and respiratory sensitizer. Low molecular weight epoxy constituents are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the preparation and exposure to spray mist and vapor should be avoided.

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
Bisphenol A - Epichlorohydrin polymer - (25068-38-6)	> 5,000.00, Rat - Category: NA	20,000.00, Rabbit - Category: NA	No data available	No data available	No data available
Aluminum - (7429-90-5)	No data available	No data available	No data available	No data available	No data available
Bisphenol F epoxy resin - (28064-14-4)	2,000.00, Rat - Category: 4	No data available	No data available	No data available	No data available
Amorphous silica, hydrophobic - (67762-90-7)	No data available	>2,000.00, Rat - Category: 5	No data available	No data available	No data available

### Carcinogen Data

CAS No.	Ingredient	Source	Value
0007429-90-5	Aluminum	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;
0025068-38-6	Bisphenol A - Epichlorohydrin polymer	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;
0028064-14-4	Bisphenol F epoxy 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;
0067762-90-7	Amorphous silica, hydrophobic	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT RESIN



SDS Revision Date:

02/02/2023

		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)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
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

## Section 12. Ecological information

### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Bisphenol A - Epichlorohydrin polymer - (25068-38-6)	3.10, Pimephales promelas	1.40, Daphnia magna	Not Available
Aluminum - (7429-90-5)	Not Available	Not Available	Not Available
Bisphenol F epoxy resin - (28064-14-4)	9.00, Oncorhynchus mykiss	9.00, Daphnia magna	Not Available
Amorphous silica, hydrophobic - (67762-90-7)	> 5,000.00, Fish	> 5,000.00, Daphnia magna	5,001.00 (72 hr), Algae

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

# Safety Data Sheet

## ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT RESIN



SDS Revision Date:

02/02/2023

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.

## 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>	Not Regulated	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No; ( Bisphenol A - Epichlorohydrin polymer )		
<b>14.6. Special precautions for user</b>	No further information		

## Section 15. Regulatory information

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
<b>Toxic Substance Control Act ( TSCA )</b>	All components of this material are either listed or exempt from listing on the TSCA Inventory.
<b>WHMIS 1988 Classification</b>	D2B F

**Safety Data Sheet**  
**ALUMBOND® H-45 & MASTERCOOL 90934 2oz./56.8gr REPAIR KIT**  
**RESIN**



SDS Revision Date:

02/02/2023

**US EPA Tier II  
Hazards**

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** Yes

**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:**

Aluminum

**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.

**Section 16. Other information**

**SDS Revision Date** 04/10/2018

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:

**Safety Data Sheet**  
**ALUMBOND® H-45 & MASTERCool 90934 2oz./56.8gr REPAIR KIT**  
**RESIN**



SDS Revision Date:

02/02/2023

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

End of Document