

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 03/13/2020 Version: 1.0

## **SECTION 1: Identification**

## 1.1. Identification

Trade name : Armstrong A-12T A

### 1.2. Recommended use and restrictions on use

Recommended use : Epoxy resin

Restrictions on use : Product for industrial use only

### 1.3. Supplier

# ResinLab, LLC

N109 W13300 Ellsworth Drive Germantown, WI 53022 - United States

T:1-877-259-1669

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#### 1.4. Emergency telephone number

Emergency number : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

## **SECTION 2: Hazard(s) identification**

### 2.1. Classification of the substance or mixture

## **GHS US classification**

Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2

Skin sensitisation, Category 1

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Full text of H statements : see section 16

# 2.2. GHS Label elements, including precautionary statements

## **GHS US labelling**

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

# 2.3. Other hazards which do not result in classification

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

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#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Epoxy Resin	(CAS-No.) 25068-38-6	50 – 75	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Quartz	(CAS-No.) 14808-60-7	5 – 10	Not classified
aluminum oxide	(CAS-No.) 1344-28-1	5 – 10	Not classified

Full text of hazard classes and H-statements : see section 16

### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Get medical advice/attention if you feel unwell.

# 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

## 5.2. Specific hazards arising from the chemical

No additional information available

## 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

# 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station, curing ovens must be ventilated to prevent emissions in the workplace. Avoid contact with skin and eyes. Wear personal protective

equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

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Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Epoxy Resin (25068-38-6)			
Not applicable			
Quartz (14808-60-7)			
ACGIH	Local name	Silica crystaline - quartz	
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (Respirable fraction)	
ACGIH	Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)	
ACGIH	Regulatory reference	ACGIH 2019	
OSHA	Remark (OSHA)	Table Z-3. For OSHA PEL (TWA) use formula: (30 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.	
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	
aluminum oxide (1344-28-1)			
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (Respirable fraction)	
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)	
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station, curing ovens must be ventilated to prevent

emissions in the workplace.

Environmental exposure controls : Avoid release to the environment.

# 8.3. Individual protection measures/Personal protective equipment

## Hand protection:

Protective gloves

# Eye protection:

Safety glasses with side shields

# Skin and body protection:

Wear suitable protective clothing

## Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

## Personal protective equipment symbol(s):







# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

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Colour : brown Odour : mild

Odour threshold No data available : No data available pΗ Melting point : Not applicable Freezing point : No data available : No data available Boiling point Flash point : > 93.33 °C : No data available Relative evaporation rate (butylacetate=1) Flammability (solid, gas) : Not applicable. Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density No data available : 1.48 g/cm<sup>3</sup> Density Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Viscosity, dynamic : No data available **Explosive limits** : No data available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Explosive properties

Oxidising properties

VOC content

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

# 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent. Amines. Fluorine.

# 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). calcium oxide. Phenolic compounds. Toxic fumes may be released. irritating vapours.

No data available

No data available

: No data available

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

LD50 oral rat > 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))	Epoxy Resin (25068-38-6)	
	LD50 oral rat	

aluminum oxide (1344-28-1)	
LD50 oral rat	> 15900 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LC50 inhalation rat (mg/l)	7.6 mg/l air (Equivalent or similar to OECD 403, 1 h, Rat, Male, Experimental value, Inhalation (aerosol))

Skin corrosion/irritation : Causes skin irritation.

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Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Quartz (14808-60-7)

IARC group 1 - Carcinogenic to humans

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Epoxy Resin (25068-38-6)	
LC50 fish 1	2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)

# 12.2. Persistence and degradability

Epoxy Resin (25068-38-6)		
Persistence and degradability	Not readily biodegradable in water.	
Quartz (14808-60-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
aluminum oxide (1344-28-1)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

## 12.3. Bioaccumulative potential

Epoxy Resin (25068-38-6)		
BCF other aquatic organisms 1	31 (Estimated value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	3 (Estimated value, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Quartz (14808-60-7)		
Bioaccumulative potential	No bioaccumulation data available.	
aluminum oxide (1344-28-1)		
Bioaccumulative potential	No bioaccumulation data available.	

# 12.4. Mobility in soil

Epoxy Resin (25068-38-6)		
Surface tension	59 mN/m (20 °C, 0.09 g/l)	
Partition coefficient n-octanol/water (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)	
Ecology - soil	Low potential for adsorption in soil.	

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Quartz (14808-60-7)	
Ecology - soil	No (test)data on mobility of the substance available.
aluminum oxide (1344-28-1)	
Ecology - soil	No (test)data on mobility of the substance available.

### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

## **Transportation of Dangerous Goods**

Not applicable

## Transport by sea

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin),

9, III

UN-No. (IMDG) : 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Epoxy Resin** 

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

### Air transport

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin), 9, III

UN-No. (IATA) : 3082

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.

**Epoxy Resin** 

Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

aluminum oxide		CAS-No. 1344-28-1	5 – 10%
Epoxy Resin (25068-38-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
EPA TSCA Regulatory Flag  XU - XU - indic Rule, (40 CFR			rting under the Chemical Data Reporting
Quartz (14808-60-7)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

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### aluminum oxide (1344-28-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

## 15.2. International regulations

### **CANADA**

#### Epoxy Resin (25068-38-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

### aluminum oxide (1344-28-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

Contains no substance on the REACH candidate list

### **National regulations**

#### Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

## 15.3. US State regulations



This product can expose you to 1-chloro-2,3-epoxypropane, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Quartz(14808-60-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
aluminum oxide(1344-28-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

## **SECTION 16: Other information**

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# Full text of H-statements:

	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
NFF	PA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFF	PA fire hazard	: 1 - Materials that must be preheated before ignition can

occur.

NFPA reactivity: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### SDS US - ResinLab

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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