

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/07/2021 Revision date: 06/07/2021 Supersedes: 05/01/2015

#### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : REF Patch 90PB XF

CAS-No. : Mixture Product code : 2531

Other means of identification : Plastic/Ramming Mix Refractory

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Refractory Recommended use : Industrial use

1.3. Supplier

Resco Products. Inc.

One Robinson Plaza, Suite 300

6600 Steubenville Pike

Pittsburgh, PA 15205 - United States

412-494-4491

SDS@RescoProducts.com - WWW.RescoProducts.com

1.4. Emergency telephone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

Outside USA & Canada +1 703-741-5970

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

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

**GHS US classification** 

Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2B H320 Causes eye irritation

Carcinogenicity Category 1A H350 After drying May cause cancer (Inhalation)

Full text of H statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

**GHS US labeling** 

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : H315 - Causes skin irritation H320 - Causes eye irritation

H350 - After drying May cause cancer (Inhalation)

Precautionary statements (GHS US) : P280 - Wear eye protection, Dust respirator, protective gloves.

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

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

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

P260 - Do not breathe dust.

#### 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

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
aluminium oxide, non-fibrous	(CAS-No.) 1344-28-1	50 – 75	Not classified
phosphoric acid, conc=75%, aqueous solution	(CAS-No.) 7664-38-2	5 – 10	Skin Corr. 1B, H314
quartz	(CAS-No.) 14808-60-7	1 – 5	Carc. 1A, H350

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 general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse.

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First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : After drying or heating. May cause cancer by inhalation. Danger of serious damage to health by

prolonged exposure through inhalation.

Symptoms/effects after skin contact Causes skin irritation. Symptoms/effects after eye contact Causes eye irritation.

Immediate medical attention and special treatment, if necessary

No additional information available

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

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media In case of fire, all extinguishing media allowed.

Specific hazards arising from the chemical

Fire hazard : Not flammable.

5.3 Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

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

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Emergency procedures : On land, sweep or shovel into suitable containers.

**Environmental precautions** 

Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid contact with

skin and eyes. After drying Do not breathe dust.

Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures

smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions Store this product in a dry location where it can be protected from the elements.

#### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

quartz (14808-60-7)

Remark (OSHA)

## **REF Patch 90PB XF (Mixture)** No additional information available aluminium oxide, non-fibrous (1344-28-1) **USA - ACGIH - Occupational Exposure Limits** ACGIH TWA (mg/m3) 1 mg/m3 respirable dust phosphoric acid, conc=75%, aqueous solution (7664-38-2) No additional information available

# **USA - ACGIH - Occupational Exposure Limits**

ACGIH TWA (mg/m³)	0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)	
USA - OSHA - Occupational Exposure Limits		
Local name	Silica, crystalline quartz, respirable dust	
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	

(3) See Table Z-3

#### **Appropriate engineering controls**

Appropriate engineering controls : Emergency eye wash fountain with clean water.

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#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Dust when sawing or tear out. Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

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

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

Physical state : Solid

Appearance : Plastic.

Color : white

Odor

Odor threshold : Acid Odor

Odor threshold : Not applicable

pH : No data available

Melting point : > 3000 °F

Freezing point Not applicable Boiling point : Not applicable Critical temperature : Not applicable Not applicable Critical pressure Flash point Not applicable Relative evaporation rate (butyl acetate=1) : Not applicable Relative evaporation rate (ether=1) Not applicable Flammability (solid, gas) Non flammable. Vapor pressure Not Applicable Vapor pressure at 50 °C Not Applicable No data available Relative vapor density at 20 °C

Relative density : ≈ 3

Solubility No data available : No data available Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature : Not applicable Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic Not Applicable **Explosion limits** : Not applicable Explosive properties No data available Oxidizing properties : No data available

**9.2.** Other information

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Air Setting.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

No additional information available **10.5. Incompatible materials** 

No additional information available

10.6. Hazardous decomposition products

No additional information available

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SECTION 11: Toxicological informatio	n	
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
aluminium oxide, non-fibrous (1344-28-1)		
LD50 oral rat	> 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)	
LC50 Inhalation - Rat	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.	
Serious eye damage/irritation	: Causes eye irritation.	
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified : Not classified	
Carcinogenicity	: After drying May cause cancer (Inhalation).	
quartz (14808-60-7)	The state of the s	
IARC group	1 - Carcinogenic to humans	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	
Symptoms/effects after inhalation	: After drying or heating. May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.	
Symptoms/effects after skin contact	: Causes skin irritation.	
Symptoms/effects after eye contact	: Causes eye irritation.	
SECTION 12: Ecological information		
12.1. Toxicity  No additional information available		
12.2. Persistence and degradability		
REF Patch 90PB XF (Mixture)		
Persistence and degradability	Not established.	
aluminium oxide, non-fibrous (1344-28-1)		
Persistence and degradability	Not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
phosphoric acid, conc=75%, aqueous solution	on (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.	
quartz (14808-60-7)		
Persistence and degradability	Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)		
ThOD	Not applicable	
	Not applicable	
12.3. Bioaccumulative potential		
REF Patch 90PB XF (Mixture)	Mat actablish ad	
Bioaccumulative potential	Not established.	
aluminium oxide, non-fibrous (1344-28-1)		
Bioaccumulative potential No data available.		
phosphoric acid, conc=75%, aqueous solution (7664-38-2)		
Bioaccumulative potential	No test data of component(s) available.	
quartz (14808-60-7)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
12. 11		
aluminium oxide, non-fibrous (1344-28-1)		
	No data available.	

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phosphoric acid, conc=75%, aqueous solution (7664-38-2)		
Ecology - soil	Highly mobile in soil.	

#### 12.5. Other adverse effects

Effect on the global warming None known

Other information : No other effects known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

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

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods** 

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### **REF Patch 90PB XF (Mixture)**

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### aluminium oxide, non-fibrous (1344-28-1)

Not subject to reporting requirements of the United States SARA Section 313

Note

Note: The section 313 chemical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxide contained in this product is non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise use of aluminum oxide in the fibrous form triggers reporting.

#### phosphoric acid, conc=75%, aqueous solution (7664-38-2)

Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ 5000 lb

## 15.2. International regulations

#### **CANADA**

#### aluminium oxide, non-fibrous (1344-28-1)

Listed on the Canadian DSL (Domestic Substances List)

#### phosphoric acid, conc=75%, aqueous solution (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

#### 15.3. US State regulations

REF Patch 90PB XF (Mixture)			
U.S California - Proposition 65 - Other	This product contains crystalline silica, a chemical known to the state of California to		
information	cause cancer. For more information go to WWW P65Warnings ca gov		

quartz (14808-60-7)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

Component	State or local regulations	
aluminium oxide, non-fibrous (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	
phosphoric acid, conc=75%, aqueous solution (7664-38-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List	
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List	

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#### SECTION 16: Other information

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: Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail. Other information

#### Full text of H-phrases:

H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H320	Causes eye irritation	
H350	May cause cancer	

#### SDS US (GHS HazCom 2012)

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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