

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/1/2015 Revision date: 9/17/2024 Supersedes: 9/13/2021

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : RFG
CAS-No. : Mixture
Product code : 1402

Other means of identification : Magnesia-Chrome Brick

#### 1.2. Recommended use and restrictions on use

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

#### 1.3. Supplier

Resco Products, Inc.
One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA, 15205
United States
T 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

Specific target organ toxicity – Single exposure, Category 3, H335 May cause respiratory irritation

Respiratory tract irritation

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) : Warning

Hazard statements (GHS US) : Dust from sawing or tear out may irritate eye.

H315 - Causes skin irritation H320 - Causes eye irritation

H335 - May cause respiratory irritation

Precautionary statements (GHS US) : P260 - Do not breathe Dust when sawing or tear out.

P280 - Wear protective gloves, eye protection, Safety shoes.

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : The fired shape may be heavy and cause pinch and drop hazards, use of gloves and safety

shoes should be considered.

### 2.4. Unknown acute toxicity (GHS US)

No additional information available

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

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Magnesium Oxide	CAS-No.: 1309-48-4	50 – 75	Not classified
chromium(III) oxide	CAS-No.: 1308-38-9	10 – 20	Not classified
iron(III) oxide	CAS-No.: 1309-37-1	10 – 20	Not classified
aluminium oxide, non-fibrous	CAS-No.: 1344-28-1	5 – 10	Not classified

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

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#### **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.

First-aid measures after inhalation : Remove the victim into fresh air.

First-aid measures after skin contact : Gently wash with plenty of soap and water.

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 with water. Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/effects after eye contact : Dust from sawing or tear out may irritate eye.

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

No additional information available

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

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

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

Firefighting instructions : No specific fire-fighting instructions required.

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

Protective equipment : Safety shoes. Gloves. Safety glasses.

**6.1.2. For emergency responders**Protective equipment

: Equip cleanup crew with proper protection.

### 6.2. Environmental precautions

No additional information available

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

For containment : Collect spillage.

Methods for cleaning up : Carefully collect the spill/leftovers.

#### 6.4. Reference to other sections

No additional information available

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

### 7.1. Precautions for safe handling

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

smoking and when leaving work.

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

Storage conditions : Store in a dry place. Incompatible products : Strong acids.

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

#### 8.1. Control parameters

## RFG (Mixture)

No additional information available

#### Magnesium Oxide (1309-48-4)

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

ACGIH OEL TWA 10 mg/m³ inhalable dust

**USA - OSHA - Occupational Exposure Limits** 

OSHA PEL (TWA) [1] 10 mg/m³ respirable dust

#### chromium(III) oxide (1308-38-9)

No additional information available

#### iron(III) oxide (1309-37-1)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 5 mg/m³ (Respirable fraction)

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**USA - ACGIH - Occupational Exposure Limits** 

ACGIH OEL TWA 1 mg/m³ respirable dust

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.

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

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Safety shoes

#### Respiratory protection:

Dust when sawing or tear out. In case of inadequate ventilation wear respiratory protection.

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

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

Physical state : Solid
Appearance : Shape.
Color : Dark
Odor : None

Odor threshold : No data available pH : No data available Melting point : > 2500 °F

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

Relative density : ≈ 3.2

Insoluble in water. Solubility Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosion limits** No data available 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

Fire conditions may produce small amounts of hexavalent chromium and other oxidation products.

## 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 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 information	
11.1. Information on toxicological effects	
	Not classified Not classified Not classified
Magnesium Oxide (1309-48-4)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit, Literature study, Dermal)
chromium(III) oxide (1308-38-9)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.41 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
iron(III) oxide (1309-37-1)	
LD50 oral rat	> 10000 mg/kg body weight (Rat, Male, Experimental value, Oral)
LC50 Inhalation - Rat	5.05 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
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, 14 day(s))
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Skin corrosion/irritation	Causes skin irritation.
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
chromium(III) oxide (1308-38-9)	
рН	No data available in the literature
iron(III) oxide (1309-37-1)	
рН	7 (5 %)
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Serious eye damage/irritation	Causes eye irritation.
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
chromium(III) oxide (1308-38-9)	
рН	No data available in the literature
iron(III) oxide (1309-37-1)	
рН	7 (5 %)
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
'	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity Reproductive toxicity	Not classified  Not classified
	May cause respiratory irritation.
047/0004 (D. 111 J.)	

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STOT-repeated exposure Application Nazirat Stoppission (Nazirat Stoppiss	according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations	
Magnesium Oxide (1309-48-4)         Not applicable (solid)           Chromium(III) oxide (1308-38-9)         Viscosity, kinemate         Not applicable (solid)           Viscosity, kinemate         Not applicable (solid)           Incompliation of the property of t	Aspiration hazard :	Not classified
Chromium(III) oxide (1308-38-9)  Viscosity, kinematic  Not applicable (solid)  Viscosity, kinematic  Not applicable (solid)  Authority oxide (1309-37-1)  Viscosity, kinematic  Not applicable (solid)  Authority oxide (and the service oxide to the service oxide t		
Viscosity, kinematic Not applicable (solid)  iron(iii) oxide (1309-37-1)  Viscosity, kinematic Not applicable (solid)  aluminium oxide, non-fibrous (1344-28-1)  Viscosity, kinematic Not applicable (solid)  Symptoms/effects after eye contact : Dust from sawing or tear out may liritate eye.  SECTION 12: Ecological information 12.1. Toxicity  Chromium(iii) oxide (1308-38-9)  LC50 - Fish [1]	Viscosity, kinematic	Not applicable (solid)
iron(III) oxide (1309-37-1)  Viscosity, kinematic Not applicable (solid)  aluminium oxide, non-fibrous (1344-28-1)  Viscosity, kinematic Description (1344-28-1)  Viscosity, kinematic Description (1308-38-9)  LC50 - Fish (1) Service (1308-38-7)  EC50 - Crustacea (1) Service (1308-38-7)  EVENTIFICATION (1308-38-7)  Persistence and degradability Not applicable (inorganic)  ThOD Not applicable (inorganic)  Formium (III) oxide (1308-38-7)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  Iron(III) oxide (1308-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  Iron(III) oxide (1308-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  Iron(III) oxide (1308-37-1)  Persistence and degradability Rot applicable (inorganic)  Formium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable (inorganic)  Formium oxide, non-fibrous (1344-28-1)  Persistence and degradability Rot applicable (inorganic)  Formium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable (inorganic)  Formium oxide, non-fibrous (1344-28-1)  Persistence and degradability Rot applicable (inorganic)	chromium(III) oxide (1308-38-9)	
Viscosity, kinematic Not applicable (solid)  aluminium oxide, non-fibrous (1344-28-1)  Viscosity, kinematic Dust from sawing or tear out may irritate eye.  SECTION 12: Ecological information  12.1. Toxicity  chromium(III) oxide (1308-38-9)  LC50 - Fish [1]	Viscosity, kinematic	Not applicable (solid)
Aluminium oxide, non-fibrous (1344-28-1)     Viscosity, kinematic	iron(III) oxide (1309-37-1)	
Viscosity, kinematic	Viscosity, kinematic	Not applicable (solid)
Symptoms/effects after eye contact SECTION 12: Ecological information 12.1. Toxicity  chromium(III) oxide (1308-38-9)  LC50 - Fish [1]   > 10000 mg/l (ISO 7346-1, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)  system, Fresh water, Experimental value, GLP)  aluminium oxide, non-fibrous (1344-28-1)  LC50 - Fish [1]   > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)  aluminium oxide, non-fibrous (1344-28-1)  LC50 - Fish [1]   > 100 mg/l (96 h, Salmo trutta, Literature study)  EC50 - Crustacea [1]   > 100 mg/l (48 h, Daphnia magna, Literature study)  12.2. Persistence and degradability  Magnesium Oxide (1309-48-4)  Persistence and degradability   Not applicable  Chemical oxygen demand (COD)   Not applicable  Chemical oxygen demand (COD)   Not applicable (inorganic)  ThOD   Not applicable (inorganic)  Thorus   Not applicable (inorganic)	aluminium oxide, non-fibrous (1344-28-1)	
SECTION 12: Ecological information   12.1. Toxicity   Chromium(III) oxide (1308-38-9)   Section   Sectio	Viscosity, kinematic	Not applicable (solid)
12.1. Toxicity   1.	Symptoms/effects after eye contact :	Dust from sawing or tear out may irritate eye.
chromium(III) oxide (1308-38-9)         LC50 - Fish [1]       > 10000 mg/l (ISO 7346-1, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)         EC50 - Crustacea [1]       > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)         aluminium oxide, non-fibrous (1344-28-1)         LC50 - Fish [1]       > 100 mg/l (96 h, Salmo trutta, Literature study)         EC50 - Crustacea [1]       > 100 mg/l (48 h, Daphnia magna, Literature study)         42.2. Persistence and degradability         Magnesium Oxide (1309-48-4)         Persistence and degradability         Not applicable.         Chemical oxygen demand (COD)       Not applicable         Chemical oxygen demand (COD)       Not applicable (inorganic)         ThOD       Not applica	SECTION 12: Ecological information	
LC50 - Fish [1]	12.1. Toxicity	
iron(III) oxide (1309-37-1)  EC50 - Crustacea [1] > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)  aluminium oxide, non-fibrous (1344-28-1)  LC50 - Fish [1] > 100 mg/l (96 h, Salmo trutta, Literature study)  EC50 - Crustacea [1] > 100 mg/l (48 h, Daphnia magna, Literature study)  12.2. Persistence and degradability  Magnesium Oxide (1309-48-4)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable  ThOD Not applicable  chromium(III) oxide (1308-38-9)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  Not applicable (inorganic)  Aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable.	chromium(III) oxide (1308-38-9)	
Section   Sect	LC50 - Fish [1]	
aluminium oxide, non-fibrous (1344-28-1)  LC50 - Fish [1] > 100 mg/l (96 h, Salmo trutta, Literature study)  EC50 - Crustacea [1] > 100 mg/l (48 h, Daphnia magna, Literature study)  12.2. Persistence and degradability  Magnesium Oxide (1309-48-4)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable  Chromium(III) oxide (1308-38-9)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  Iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  Not applicable (inorganic)  Aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable.	iron(III) oxide (1309-37-1)	
LC50 - Fish [1] > 100 mg/l (96 h, Salmo trutta, Literature study)  EC50 - Crustacea [1] > 100 mg/l (48 h, Daphnia magna, Literature study)  12.2. Persistence and degradability  Magnesium Oxide (1309-48-4)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable  ThOD Not applicable  Chromium(III) oxide (1308-38-9)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  Iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  Not applicable (inorganic)  Auminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable.	EC50 - Crustacea [1]	
EC50 - Crustacea [1] > 100 mg/l (48 h, Daphnia magna, Literature study)  12.2. Persistence and degradability  Magnesium Oxide (1309-48-4)  Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable  Chromium(III) oxide (1308-38-9)  Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable (inorganic) ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  Iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  Not applicable (inorganic)  Auminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable.	aluminium oxide, non-fibrous (1344-28-1)	
Magnesium Oxide (1309-48-4)   Persistence and degradability   Not applicable.	LC50 - Fish [1]	> 100 mg/l (96 h, Salmo trutta, Literature study)
Magnesium Oxide (1309-48-4)         Persistence and degradability       Not applicable.         Chemical oxygen demand (COD)       Not applicable         ThOD         Rersistence and degradability         Biodegradability: not applicable.         Chemical oxygen demand (COD)         Not applicable (inorganic)         ThOD         Not applicable (inorganic)         Iron(III) oxide (1309-37-1)         Persistence and degradability       Biodegradability: not applicable.         Chemical oxygen demand (COD)       Not applicable (inorganic)         ThOD       Not applicable (inorganic)         aluminium oxide, non-fibrous (1344-28-1)         Persistence and degradability       Not applicable.         Chemical oxygen demand (COD)       Not applicable.	EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna, Literature study)
Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable ThOD Not applicable  chromium(III) oxide (1308-38-9)  Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable (inorganic) ThOD Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable. Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  Aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable. Chemical oxygen demand (COD) Not applicable.	12.2. Persistence and degradability	
Chemical oxygen demand (COD)  Not applicable  chromium(III) oxide (1308-38-9)  Persistence and degradability  Biodegradability: not applicable.  Chemical oxygen demand (COD)  Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability  Biodegradability: not applicable.  Chemical oxygen demand (COD)  Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability  Biodegradability: not applicable.  Chemical oxygen demand (COD)  Not applicable (inorganic)  ThOD  Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability  Not applicable.  Chemical oxygen demand (COD)  Not applicable.	Magnesium Oxide (1309-48-4)	
ThOD Not applicable  Chromium(III) oxide (1308-38-9)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable.	Persistence and degradability	Not applicable.
Chromium(III) oxide (1308-38-9)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  ThOD Not applicable (inorganic)  Aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable.  Not applicable.	Chemical oxygen demand (COD)	Not applicable
Persistence and degradability  Chemical oxygen demand (COD)  Not applicable (inorganic)  ThOD  Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability  Biodegradability: not applicable.  Chemical oxygen demand (COD)  Not applicable (inorganic)  ThOD  Not applicable (inorganic)  Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability  Not applicable.  Chemical oxygen demand (COD)  Not applicable.	ThOD	Not applicable
Chemical oxygen demand (COD)  Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability  Biodegradability: not applicable.  Chemical oxygen demand (COD)  Not applicable (inorganic)  ThOD  Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability  Not applicable.  Chemical oxygen demand (COD)  Not applicable.  Not applicable.	chromium(III) oxide (1308-38-9)	
ThOD Not applicable (inorganic)  iron(III) oxide (1309-37-1)  Persistence and degradability Biodegradability: not applicable.  Chemical oxygen demand (COD) Not applicable (inorganic)  ThOD Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable.	Persistence and degradability	Biodegradability: not applicable.
iron(III) oxide (1309-37-1)  Persistence and degradability  Biodegradability: not applicable.  Chemical oxygen demand (COD)  Not applicable (inorganic)  ThOD  Aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability  Not applicable.  Chemical oxygen demand (COD)  Not applicable	Chemical oxygen demand (COD)	Not applicable (inorganic)
Persistence and degradability  Chemical oxygen demand (COD)  Not applicable (inorganic)  ThOD  Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability  Not applicable.  Chemical oxygen demand (COD)  Not applicable	ThOD	Not applicable (inorganic)
Chemical oxygen demand (COD)  Not applicable (inorganic)  Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability  Not applicable.  Chemical oxygen demand (COD)  Not applicable	iron(III) oxide (1309-37-1)	
ThOD Not applicable (inorganic)  aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability Not applicable.  Chemical oxygen demand (COD) Not applicable	Persistence and degradability	Biodegradability: not applicable.
aluminium oxide, non-fibrous (1344-28-1)  Persistence and degradability  Chemical oxygen demand (COD)  Not applicable	Chemical oxygen demand (COD)	Not applicable (inorganic)
Persistence and degradability  Chemical oxygen demand (COD)  Not applicable  Not applicable	ThOD	Not applicable (inorganic)
Chemical oxygen demand (COD)  Not applicable	aluminium oxide, non-fibrous (1344-28-1)	
	Persistence and degradability	Not applicable.
ThOD Not applicable	Chemical oxygen demand (COD)	Not applicable
	ThOD	Not applicable

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12.3. Bioaccumulative potential	
Magnesium Oxide (1309-48-4)	
Bioaccumulative potential	No bioaccumulation data available.
chromium(III) oxide (1308-38-9)	
Bioaccumulative potential	Not bioaccumulative.
iron(III) oxide (1309-37-1)	
Bioaccumulative potential	Not bioaccumulative.
aluminium oxide, non-fibrous (1344-28-1)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
Magnesium Oxide (1309-48-4)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
chromium(III) oxide (1308-38-9)	
Surface tension	No data available in the literature
Ecology - soil	Adsorbs into the soil.
iron(III) oxide (1309-37-1)	
Surface tension	Not applicable (solid)
Ecology - soil	Adsorbs into the soil.
aluminium oxide, non-fibrous (1344-28-1)	
Surface tension	No data available in the literature
Ecology - soil	No data available.
12.5. Other adverse effects	

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations

: Chromite (Cr\*+3) may in normal use be converted chemically to a chromate (Cr\*+6). Hexavalent chromium (Cr\*+6) is considered a hazardous material.

## **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

**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

## **RFG** (Mixture)

Note This information must be included in all SDS's that are copied and distributed for this material.

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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## chromium(III) oxide (1308-38-9)

Subject to reporting requirements of United States SARA Section 313

#### 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.

#### 15.2. International regulations

**CANADA** 

#### Magnesium Oxide (1309-48-4)

Listed on the Canadian DSL (Domestic Substances List)

#### chromium(III) oxide (1308-38-9)

Listed on the Canadian DSL (Domestic Substances List)

#### iron(III) oxide (1309-37-1)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

**National regulations** 

No additional information available

## 15.3. US State regulations

RFG (	(Mixture)	)
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U.S California - Proposition 65 - Other	This product contains chromite (Cr*+3) which may in normal use, be converted chemically to a
information	chromate (Cr*+6) hexavalent chrome, a chemical known to the State of California to cause cancer.

Component	State or local regulations
Magnesium Oxide (1309-48-4)	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
chromium(III) oxide (1308-38-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous
	Substance List
iron(III) oxide( 1309-37-1)	U.S New Jersey - Right to Know Hazardous Substance List
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

## **SECTION 16: Other information**

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

Revision date : 9/17/2024

Other information : Report language name. English. In the event of any conflict between English and other language

versions, the English version shall prevail.

Full text of H-phra	ases
H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

Safety Data Sheet (SDS), USA

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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