## SAFETY DATA SHEET



PRINCE AGRI PRODUCTS, INC.

Advancing Nutrition for Healthy Animals®

#### **RED IRON OXIDE/ ROUGE**

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**GHS Product Information** 

Product Name: RED IRON OXIDE/ ROUGE

Business Unit Prince Agri Other means of identification: Not available

Safety data sheet number: 5178-500 -US-E

Recommended use of the chemical and restrictions on use
Recommended use:

No information available.

Uses advised against: No information available

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

Supplier: Manufacturer:

Prince Agri Products, Inc
229 Radio Road
229 Radio Road
229 Radio Road

229 Radio Road
Quincy, IL 62305
Tel: 217-222-8854
Fax: 217-222-5098
Toll Free: 800-677-4623
Email: prince@princeagri.com

229 Radio Road
Quincy, IL 62305
Tel: 217-222-8854
Fax: 217-222-5098
Toll Free: 800-677-4623
Email: prince@princeagri.com

SDS Contact (email of responsible prince@princeagri.com

person):

24 Hour Emergency Phone Number: Chemtrec 1-800-424-9300 (CCN17224)

International: +1 703-527-3887

## 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

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#### **Emergency Overview**

#### Danger

#### Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause cancer

May cause respiratory irritation. May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure



Appearance No information available

Physical state Solid

Odor Odorless

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment

IF IN EYES: 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 IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Other Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Pure substance/mixture

Mixture

Chemical Name	CAS No	Weight-%	Trade Secret
Iron oxide (Fe2O3)	1309-37-1	60 - 100	*
Quartz	14808-60-7	3 - 7	*

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Aluminum oxide	1344-28-1	1 - 5	*
Magnesium oxide (MgO)	1309-48-4	1 - 5	*
Calcium oxide	1305-78-8	1 - 5	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

#### First aid measures

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Inhalation:** Remove to fresh air.

**Skin Contact:** Wash skin with soap and water.

**Ingestion:** Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

**Symptoms:** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media** 

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media: Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical:

No information available.

**Explosion data** 

Sensitivity to Mechanical

None.

Impact:

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation, especially in confined areas.

For emergency responders: Use personal protection recommended in Section 8. Use personal protective equipment as

required.

**Environmental precautions:** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

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Methods for cleaning up: Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials:** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	CAS No	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iron oxide (Fe2O3)	1309-37-1	TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ fume TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ fume and total dust Iron oxide (vacated) TWA: 5 mg/m³ respirable fraction regulated under Rouge	IDLH: 2500 mg/m³ Fe dust and fume TWA: 5 mg/m³ Fe dust and fume
Quartz	14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.1 mg/m³ respirable dust : (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust
Aluminum oxide	1344-28-1	TWA: 1 mg/m³ respirable fraction	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	-
Magnesium oxide (MgO)	1309-48-4	TWA: 10 mg/m³ inhalable fraction	TWA: 15 mg/m³ fume, total particulate (vacated) TWA: 10 mg/m³ fume and total particulate	IDLH: 750 mg/m³ fume
Calcium oxide	1305-78-8	TWA: 2 mg/m³	TWA: 5 mg/m³ (vacated) TWA: 5 mg/m³ not in effect as a result of reconsideration	IDLH: 25 mg/m³ TWA: 2 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

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**Appropriate engineering controls** 

Engineering Controls: Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

**Eye/face protection:** No special technical protective measures are necessary.

**Skin and body protection:** No special technical protective measures are necessary.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

Remarks • Method

provided in accordance with current local regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Solid

Appearance No information available Odor Odorless

Color red, red brown Odor threshold No information available

<u>Property</u> <u>Values</u>

**pH** No information available

Melting Point / Freezing Point = 3092 °F

Boiling point / boiling range

Flash point

No information available

No information available

No information available

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Specific Gravity 4.5

Water solubility Insoluble in water

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available Oxidizing properties No information available

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
Density
Bulk density
No information available

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## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

#### **Incompatible materials**

None known based on information supplied.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information: No data available

**Inhalation:** No data available.

**Eye contact:** No data available.

**Skin Contact:** No data available.

**Ingestion:** No data available.

Chemical Name	CAS No	Oral LD50	Dermal LD50	Inhalation LC50
Iron oxide (Fe2O3)	1309-37-1	> 10000 mg/kg (Rat)	-	-
Quartz	14808-60-7	= 500 mg/kg (Rat)	-	-
Aluminum oxide	1344-28-1	> 5000 mg/kg (Rat)	-	-
Calcium oxide	1305-78-8	= 500 mg/kg (Rat)	-	-

#### Information on toxicological effects

**Symptoms:** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization:** No information available. **Germ cell mutagenicity:** No information available.

**Carcinogenicity:** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
Iron oxide (Fe2O3)	1309-37-1	=	Group 3	=	-
Quartz	14808-60-7	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans Not classifiable as a human carcinogen

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NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity:
STOT - single exposure:
No information available.
No information available.
No information available.

Target Organ Effects: Eyes, lungs, Respiratory system, Skin.

**Aspiration hazard:** No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document . mg/kg 9886

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

104% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	CAS No	Algae/aquatic plants	Fish	Crustacea
Calcium oxide	1305-78-8	-	1070: 96 h Cyprinus carpio	-
			mg/L LC50 static	

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### **Mobility**

No information available.

Other adverse effects: No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes: Refer to all federal, state and local regulations prior to disposal of container and unused

contents by reuse, recycle or disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid runoff to waterways and sewers. Recover or recycle if possible. Send to a licensed recycler, reclaimer or incinerator.

**Disposal methods:** Do not reuse container.

## 14. TRANSPORT INFORMATION

**Note:** Store in a closed container. Keep container upright.

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

TDG Not regulated

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA: Complies DSL/NDSL: Complies **EINECS/ELINCS:** Complies Complies **ENCS: IECSC**: Complies **KECL:** Complies PICCS: Complies Complies AICS:

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	SARA 313 - Threshold Values %
Aluminum oxide	1344-28-1	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	CAS No	California Proposition 65
Quartz	14808-60-7	Carcinogen

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#### U.S. State Right-to-Know Regulations

No information available

Chemical Name	CAS No	New Jersey	Massachusetts	Pennsylvania
Iron oxide (Fe2O3)	1309-37-1	X	X	X
Quartz	14808-60-7	X	X	X
Aluminum oxide	1344-28-1	X	X	X
Calcium oxide	1305-78-8	X	X	X
Magnesium oxide (MgO)	1309-48-4	X	X	X

#### Canada

No information available

**WHMIS Hazard Class** 

D2A - Very toxic materials



## 16. OTHER INFORMATION

**Health hazards** 3 Flammability 0 Instability 0 Physical & Chemical NFPA **Properties** 0 HMIS Health hazards \*3 Flammability 0 Physical hazards 0 Personal protection E

**Document Review** 

**Revision Number:** 

**Revision Note:** No information available

Key or legend to abbreviations and acronyms used in the

safety data sheet:

Globally Harmonized System (GHS)

International Maritime Dangerous Goods (IMDG)

International Air Transport Association (IATA)

Bioconcentration factor (BCF)

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