## **SAFETY DATA SHEET**



## HEALTHY ANIMALS. HEALTHY FOOD. HEALTHY WORLD.<sup>®</sup>

## **RED IRON OXIDE/ ROUGE**

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

GHS Product Information		
Product Name:	<b>RED IRON OXIDE/ ROUGE</b>	
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:

Phibro Animal Health Corporation Glenpointe Centre East, 3rd FL 300 Frank W. Burr Blvd., Ste 21 Teaneck, NJ 07666-6712 Tel: (201) 329-7300 Toll free: (888) 475-7355 Fax: (201) 329-7070

CUS Braduat Information

Manufacturer: Prince Agri Products, Inc 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** phibroehs@pahc.com person):

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

International:

International Number: +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

#### **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 landfill

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	*
Silica	14808-60-7	3 - 7	*
Aluminum oxide	1344-28-1	1 - 5	*
Magnesium oxide (MgO)	1309-48-4	1 - 5	*

Calcium oxide	1305-78-8	1 - 5	*
*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.
<u>Explosion data</u> Sensitivity to Mechanical Impact: Sensitivity to Static Discharge:	None. 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.	
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.	

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## 7. HANDLING AND STORAGE

Precautions for	or 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/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> fume TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 2500 mg/m <sup>3</sup> Fe dust and fume
			TWA: 5 mg/m <sup>3</sup> respirable	TWA: 5 mg/m <sup>3</sup> Fe dust and
			fraction	fume
			(vacated) TWA: 10 mg/m <sup>3</sup>	
			fume and total dust Iron	
			oxide	
			(vacated) TWA: 5 mg/m <sup>3</sup>	
			respirable fraction regulated	
			under Rouge	
Silica	14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	(vacated) TWA: 0.1 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup> respirable
		respirable fraction	respirable dust	dust
			: (30)/(%SiO2 + 2) mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>
			TWA total dust	respirable dust
			: (250)/(%SiO2 + 5) mppcf	
			TWA respirable fraction	
			: (10)/(%SiO2 + 2) mg/m <sup>3</sup>	
			TWA respirable fraction	
Aluminum oxide	1344-28-1	TWA: 1 mg/m <sup>3</sup> respirable	TWA: 15 mg/m <sup>3</sup> total dust	-
		fraction	TWA: 5 mg/m <sup>3</sup> respirable	
			fraction	
			(vacated) TWA: 10 mg/m <sup>3</sup>	
			total dust	
			(vacated) TWA: 5 mg/m <sup>3</sup>	
			respirable fraction	

Magnesium oxide (MgO)	1309-48-4	TWA: 10 mg/m <sup>3</sup> inhalable fraction	TWA: 15 mg/m <sup>3</sup> fume, total particulate (vacated) TWA: 10 mg/m <sup>3</sup>	IDLH: 750 mg/m <sup>3</sup> fume
Calcium oxide	1305-78-8	TWA: 2 mg/m <sup>3</sup>	fume and total particulate TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup> not in effect as a result of reconsideration	IDLH: 25 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>

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).

#### 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 provided in accordance with current local regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance Color	Solid No information available red, red brown	Odor Odor threshold	Odorless No information available
Property pH Melting Point / Freezing Point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific Gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	ValuesNo information available= 3092 °FNo information availableNo in	<u>Remarks • Method</u>	

#### **Other Information**

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

## **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)	-	-
Silica	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:	
Germ cell mutagenicity:	
Carcinogenicity:	

No information available. No information available. 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	-	-

Silica	14808-60-7	A2	Group 1	Known	Х
ACGIH (American Confe A2 - Suspected Human C IARC (International Age Group 1 - Carcinogenic to Not classifiable as a huma NTP (National Toxicolog Known - Known Carcinog OSHA (Occupational Sa X - Present	arcinogen ncy for Research on Ca Humans an carcinogen Iy Program) en	ancer)			
Reproductive toxicity: STOT - single exposure: STOT - repeated exposur Target Organ Effects: Aspiration hazard:	No inform e: No inform Eyes, lun	nation available. nation available. nation available. gs, Respiratory sy nation available.	ystem, Skin.		

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<br/>contents by reuse, recycle or disposal. Disposal should be in accordance with applicable<br/>regional, national and local laws and regulations. Avoid runoff to waterways and sewers.<br/>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 ()
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IMDG

Not regulated ()

<u>TDG</u>

Not regulated

## **15. REGULATORY INFORMATION**

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

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
 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

#### **FIFRA**

Not applicable

#### US State Regulations

<u>California Proposition 65</u> This product contains the following Proposition 65 chemicals

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

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

No information available

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

#### Canada

No information available

#### **WHMIS Hazard Class**

D2A - Very toxic materials



16. OTHER INFORMATION							
<u>NFPA</u>	Health hazards 3	Flammabilit	<b>y</b> 0	Instability 0	Physical & Chemical Properties 0		
HMIS	Health hazards *3	Flammabilit	<b>y</b> 0	Physical hazards 0	Personal protection E		
Document Review Revision Number:	6						
<b>Revision Note:</b>	No information available						
Key or legend to abbreviations and acronyms used in the safety data sheet:			Bioconcentration factor (BCF) International Air Transport Association (IATA) Globally Harmonized System (GHS) International Maritime Dangerous Goods (IMDG)				

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