

# MATERIAL SAFETY DATA SHEET



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**Product Safety & Regulatory Affairs**  
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USA

**TRANSPORTATION EMERGENCY**  
CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

**NON-TRANSPORTATION**  
LANXESS Emergency Phone: (800) 410-3063  
LANXESS Information Phone: (800) LANXESS

## 1. Product and Company Identification

**Product Name:** BURNT UMBER RP  
**Material Number:** 3746309  
**Chemical Family:** Pigmented Limestone

## 2. Hazards Identification

### Emergency Overview

**WARNING! Color:** Red **Form:** Solid Powder **Odor:** Odorless.  
May cause respiratory tract irritation. May cause skin irritation. Causes eye irritation.  
May cause lung damage. Contains material which can cause cancer.

### Potential Health Effects

**Primary Routes of Entry:** Inhalation, Skin Contact, Eye Contact, Ingestion

**Medical Conditions Aggravated by Exposure:** Respiratory disorders, Eye disorders, Skin disorders

### HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

#### Inhalation

##### Acute Inhalation

**For Product: BURNT UMBER RP**

May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

#### Skin

##### Acute Skin

**For Product: BURNT UMBER RP**

May cause irritation with symptoms of reddening and itching. Not expected to be a skin sensitizer.

#### Eye

##### Acute Eye

**For Product: BURNT UMBER RP**

Causes irritation with symptoms of reddening, tearing, stinging, and swelling.

**Ingestion**

**Acute Ingestion**

**For Product: BURNT UMBER RP**

Not expected to be harmful if swallowed.

**General Effects of Exposure**

**Acute Effects of Exposure**

**For Product: BURNT UMBER RP**

Exposure to Silica, Quartz can cause a very serious lung disease called Silicosis with cough, shortness of breath, and changes in chest x-ray. The earliest symptoms of silicosis may include: Shortness of breath, coughing, wheezing, fatigue, chest pain, loss of appetite and fever.

**Chronic Effects of Exposure**

**For Product: BURNT UMBER RP**

Excessive exposure to airborne crystalline silica can cause fibrotic lung damage, with scarring of the lungs with cough and shortness of breath. This is called "Silicosis". This is generally a slowly developing fibrotic disease as symptoms are usually delayed for 10 years or more. Symptoms are dyspnea, chest pain, breathlessness, and cough. The chronic lung scarring developed from the silica dust causes a progressive massive fibrosis. This may lead to increased susceptibility to tuberculosis.

**Other Effects of Exposure**

**For Product: BURNT UMBER RP**

Prolonged inhalation (6 to 10 years) of iron oxide fume has been reported to produce changes in lung x-rays of exposed individuals. This condition, siderosis, is considered to be a benign pneumoconiosis that exhibits no adverse health effects. Siderosis has been observed among occupations such as arc-welders where iron oxide fumes are present. To the best of our knowledge, this condition has not been observed after prolonged exposure to iron oxide pigments.

**Carcinogenicity:**

Crystalline Quartz Silica

**NTP** - Hazard Designation: Known carcinogen.

**IARC** - Overall evaluation: 1 Human carcinogen.

**3. Composition/Information on Ingredients**

**Hazardous Components**

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
60 - 100%	Limestone	1317-65-3
10 - 20%	Iron (III) Oxide	1309-37-1
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

**4. First Aid Measures**

**Eye Contact**

In case of contact, flush eyes with plenty of water for at least 15 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Call a physician immediately.

**Skin Contact**

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops.

**Inhalation**

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Ingestion**

Get medical attention.

**5. Fire-Fighting Measures**

**Suitable Extinguishing Media:** Material is not combustible. Use extinguishing media suitable for other combustible materials in the area.

**Special Fire Fighting Procedures**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

**6. Accidental release measures****Spill and Leak Procedures**

Cleanup personnel must use appropriate personal protective equipment. Remove mechanically by a method that minimizes the generation of airborne dust (vacuum cleaner, wet mopping, etc.) Collect and place in appropriately marked sealable containers for disposal.

**7. Handling and Storage****Storage Period**

Not Established

**Handling/Storage Precautions**

Avoid breathing dust. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use.

**Further Info on Storage Conditions**

Avoid acidic conditions. Minimize dust generation and accumulation.

**8. Exposure Controls / Personal Protection****Limestone (1317-65-3)**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 5 mg/m<sup>3</sup> (Respirable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 15 mg/m<sup>3</sup> (Total dust.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 5 mg/m<sup>3</sup> (Respirable fraction.)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
PEL: 15 mg/m<sup>3</sup> (Total dust.)

**Iron (III) Oxide (1309-37-1)**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
PEL: 10 mg/m<sup>3</sup> (Fume.)  
US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 5 mg/m<sup>3</sup> (Respirable fraction.)  
US. ACGIH Threshold Limit Values  
Hazard Designation: Group A4 Not classifiable as a human carcinogen.

**Crystalline Quartz Silica (14808-60-7)**

US. OSHA Table Z-3 (29 CFR 1910.1000)  
Time Weighted Average (TWA): 2.4 millions of particles per cubic foot of air (Respirable.)The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.  
US. OSHA Table Z-3 (29 CFR 1910.1000)  
Time Weighted Average (TWA): 0.1 mg/m<sup>3</sup> (Respirable.)The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.  
US. OSHA Table Z-3 (29 CFR 1910.1000)  
Time Weighted Average (TWA): 0.3 mg/m<sup>3</sup> (Total dust.)The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.  
US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 0.025 mg/m<sup>3</sup> (Respirable fraction.)  
US. ACGIH Threshold Limit Values  
Hazard Designation: Group A2 Suspected human carcinogen.

**Industrial Hygiene/Ventilation Measures**

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

**Respiratory Protection**

The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline., NIOSH approved, air-purifying particulate respirator with P-100 filters., When respirators are in use, an OSHA compliant respirator program is required (29 CFR 1910.134). Airborne concentrations must not exceed the respirator's Assigned Protection Factor multiplied by the appropriate standard/guideline.

**Hand Protection**

gloves

**Eye Protection**

Chemical safety goggles or safety glasses with side-shields.

**Skin and body protection**

Wear cloth work clothing including long pants and long-sleeved shirts.

**Additional Protective Measures**

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

## 9. Physical and chemical properties

<b>Form:</b>	Solid
<b>Appearance:</b>	Powder
<b>Color:</b>	Red
<b>Odor:</b>	Odorless
<b>Melting Point:</b>	Not Established
<b>Boiling Point/Range:</b>	Not Established
<b>Flash Point:</b>	Not Applicable
<b>Lower Explosion Limit:</b>	Not Established
<b>Upper Explosion Limit:</b>	Not Established
<b>Vapor Pressure:</b>	Not Applicable
<b>Specific Gravity:</b>	Not Established
<b>Solubility in Water:</b>	Very low solubility
<b>Bulk Density:</b>	Not Established

## 10. Stability and Reactivity

### Hazardous Reactions

Hazardous polymerization does not occur.

### Stability

Stable

### Materials to avoid

Acids

### Conditions to avoid

None known.

### Hazardous decomposition products

None known.

## 11. Toxicological Information

### Toxicity Data for Limestone

#### Acute Oral Toxicity

LD50: 6,450 mg/kg (Rat)

#### Skin Irritation

rabbit, Draize, Exposure Time: 24 hrs, Moderately irritating

#### Eye Irritation

rabbit, Draize, Exposure Time: 24 hrs, Severely irritating

### Toxicity Data for Iron (III) Oxide

#### Acute Oral Toxicity

LD50: > 5,000 mg/kg (Rat)

#### Acute dermal toxicity

LD50: 5,500 mg/kg (Rat)

#### Skin Irritation

rabbit, Acute Dermal Irritation, Exposure Time: 24 hrs, Non-irritating

**Eye Irritation**

rabbit, Acute Eye Irritation Study, Non-irritating

**Toxicity Data for C.I. Pigment Black 11**

**Acute Oral Toxicity**

LD50: > 5,000 mg/kg (Rat)

**Skin Irritation**

rabbit, Acute Dermal Irritation, Non-irritating

**Eye Irritation**

rabbit, Acute Eye Irritation Study, Non-irritating

**Sensitization**

dermal: non-sensitizer (Guinea pig)

**Mutagenicity**

Genetic Toxicity in Vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

**Toxicity Data for C.I. Pigment Yellow 42**

**Acute Oral Toxicity**

LD50: > 5,000 mg/kg (Rat)

**Skin Irritation**

rabbit, Non-irritating

**Eye Irritation**

rabbit, Non-irritating

**Carcinogenicity**

Rat, Male/Female, intraperitoneal, 8 w,  
ambiguous

**Toxicity Data for Crystalline Quartz Silica**

**Mutagenicity**

Genetic Toxicity in Vitro:

Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium, Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Sister Chromatid Exchange: ambiguous (hamster)

**Carcinogenicity**

rat, Male/Female, inhalation, 2 years, 6 hrs/day 5 days/week  
positive

**12. Ecological Information**

**Ecological Data for Limestone**

**Biodegradation**

Not readily biodegradable.

**Acute and Prolonged Toxicity to Fish**

LC50: 56,000 mg/l (Mosquitofish (Gambusia affinis), 48 hrs)

**Ecological Data for Iron (III) Oxide**

**Acute and Prolonged Toxicity to Fish**

LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 hrs)

**Toxicity to Microorganisms**

EC0: > 5,000 mg/l, (Pseudomonas fluorescens, 24 hrs)

**Toxicity Other Non-Mammal Terrestrial Species**

No Harmful effects

**Ecological Data for C.I. Pigment Black 11**

**Acute and Prolonged Toxicity to Fish**

LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 hrs)

**Toxicity to Microorganisms**

EC0: > 1,000 mg/l, (Pseudomonas fluorescens, 24 hrs)

**Ecological Data for C.I. Pigment Yellow 42**

**Acute and Prolonged Toxicity to Fish**

EC50: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 h)

**Toxicity to Microorganisms**

> 10,000 mg/l, (Pseudomonas putida)

**13. Disposal considerations**

**Waste Disposal Method**

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

**Empty Container Precautions**

Do not reuse empty container. Recondition or dispose of empty container in accordance with governmental regulations. Label precautions also apply to this container when empty.

**14. Transportation information**

**Land transport (DOT)**

Non-Regulated

**Sea transport (IMDG)**

Non-Regulated

**Air transport (ICAO/IATA)**

Non-Regulated

**15. Regulatory Information**

**United States Federal Regulations**

**OSHA Hazcom Standard Rating:** Hazardous

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

**US. EPA CERCLA Hazardous Substances (40 CFR 302):**

**Components**

None

**SARA Section 311/312 Hazard Categories:**

Acute Health Hazard, Chronic Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

**Components**

None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:**

**Components**

None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

**State Right-To-Know Information**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
60 - 100%	Limestone	1317-65-3
10 - 20%	Iron (III) Oxide	1309-37-1
>=1%	C.I. Pigment Black 11	1317-61-9
>=1%	C.I. Pigment Yellow 42	20344-49-4

**MA Right to Know Extraordinarily Hazardous Substance List:**

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	Crystalline Quartz Silica	14808-60-7

**California Prop. 65:**

**Warning! This product contains chemical(s) known to the State of California to be Carcinogenic.**

<u>Weight %</u>	<u>Components</u>	<u>CAS-No.</u>
0.1 - 1%	Crystalline Quartz Silica	14808-60-7



## 16. Other Information

### NFPA 704M Rating

<b>Health</b>	2
<b>Flammability</b>	0
<b>Reactivity</b>	0
<b>Other</b>	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

### HMIS Rating

<b>Health</b>	2*
<b>Flammability</b>	0
<b>Physical Hazard</b>	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

\* = Chronic Health Hazard

LANXESS Corporation's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS Corporation as a customer service.

Contact Person: Product Safety Department  
Telephone: (800) LANXESS  
MSDS Number: 000000002822  
Version Date: 04/19/2006  
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