



## Safety Data Sheet acc. to OSHA HCS

Printing date 02/04/2020

Reviewed on 02/04/2020

### 1 Identification

- **Product identifier**
- **Trade name:** PRL30 COARSE RUSSET PEARL
- **Article number:** PRL30
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Lusid Technologies  
4725 S Camp Kearns Road  
Kearns, UT 84118  
USA  
www.lusidtechnologies.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
24 Hrs Emergency Contact:  
INFOTRAC  
1-800-535-5053

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Sol. 1 H228 Flammable solid.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Naphtha (petroleum), heavy alkylate

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Rutile (TiO<sub>2</sub>)

- **Hazard statements**

- Flammable solid.

- May cause genetic defects.

- May cause cancer.

- **Precautionary statements**

- Obtain special instructions before use.

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

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

- Ground/bond container and receiving equipment.

- Use explosion-proof electrical/ventilating/lighting/equipment.

- Wear protective gloves/protective clothing/eye protection/face protection.

- IF exposed or concerned: Get medical advice/attention.

- In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

- Store locked up.

- Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

|            |                                     |         |
|------------|-------------------------------------|---------|
| 12001-26-2 | Mica                                | 25-50%  |
| 1309-37-1  | diiron trioxide                     | 25-50%  |
| 64741-65-7 | Naphtha (petroleum), heavy alkylate | 2.5-10% |
| 1317-80-2  | Rutile (TiO <sub>2</sub> )          | ≤2.5%   |

## 4 First-aid measures

- **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Generally the product does not irritate the skin.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** If symptoms persist consult doctor.

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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

### · PAC-1:

|            |                             |                      |
|------------|-----------------------------|----------------------|
| 12001-26-2 | Mica                        | 9 mg/m <sup>3</sup>  |
| 1309-37-1  | diiron trioxide             | 15 mg/m <sup>3</sup> |
| 1308-14-1  | dichromium trioxide hydrate | 3 mg/m <sup>3</sup>  |

### · PAC-2:

|            |                             |                       |
|------------|-----------------------------|-----------------------|
| 12001-26-2 | Mica                        | 99 mg/m <sup>3</sup>  |
| 1309-37-1  | diiron trioxide             | 360 mg/m <sup>3</sup> |
| 1308-14-1  | dichromium trioxide hydrate | 33 mg/m <sup>3</sup>  |

### · PAC-3:

|            |                             |                         |
|------------|-----------------------------|-------------------------|
| 12001-26-2 | Mica                        | 590 mg/m <sup>3</sup>   |
| 1309-37-1  | diiron trioxide             | 2,200 mg/m <sup>3</sup> |
| 1308-14-1  | dichromium trioxide hydrate | 200 mg/m <sup>3</sup>   |

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

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- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### 12001-26-2 Mica

|     |   |
|-----|---|
| PEL | Long-term value: 20 mppcf ppm<br><1% crystalline silica                           |
| REL | Long-term value: 3* mg/m <sup>3</sup><br>*respirable dust; containing < 1% quartz |
| TLV | Long-term value: 3* mg/m <sup>3</sup><br>*as respirable fraction                  |

### 1309-37-1 diiron trioxide

|     |  |
|-----|--|
| PEL | Long-term value: 10* mg/m <sup>3</sup><br>*Fume                  |
| REL | Long-term value: 5 mg/m <sup>3</sup><br>Dust & fume, as Fe       |
| TLV | Long-term value: 5* mg/m <sup>3</sup><br>*as respirable fraction |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

|                          |                 |
|--------------------------|-----------------|
| · <b>Form:</b>           | Powder          |
| · <b>Color:</b>          | Brown           |
| · <b>Odor:</b>           | Characteristic  |
| · <b>Odor threshold:</b> | Not determined. |

- **pH-value:** Not applicable.

- **Change in condition**

|                                       |                   |
|---------------------------------------|-------------------|
| · <b>Melting point/Melting range:</b> | Undetermined.     |
| · <b>Boiling point/Boiling range:</b> | 184 °C (363.2 °F) |

- **Flash point:** 53 °C (127.4 °F)

- **Flammability (solid, gaseous):** Not determined.

- **Ignition temperature:** 354 °C (669.2 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**

|                 |                 |
|-----------------|-----------------|
| · <b>Lower:</b> | Not determined. |
| · <b>Upper:</b> | Not determined. |

- **Vapor pressure:** Not applicable.

- **Density at 20 °C (68 °F):** 2.62 g/cm<sup>3</sup> (21.8639 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not applicable.

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|   |  |
|---|--|
| · <b>Evaporation rate</b>                         | Not applicable.                            |
| · <b>Solubility in / Miscibility with Water:</b>  | Insoluble.                                 |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | Not applicable.                            |
| <b>Kinematic:</b>                                 | Not applicable.                            |
| · <b>Solvent content:</b>                         |  |
| <b>VOC content:</b>                               | 0.00 %                                     |
| <b>Solids content:</b>                            | 100.0 %                                    |
| · <b>Other information</b>                        | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 64741-65-7 Naphtha (petroleum), heavy alkylate

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | >6,000 mg/kg (rat)    |
| Dermal     | LD50     | >3,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >7.8 mg/l (rat)       |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
The product can cause inheritable damage.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

|           |                            |    |
|-----------|----------------------------|----|
| 1309-37-1 | diiron trioxide            | 3  |
| 1317-80-2 | Rutile (TiO <sub>2</sub> ) | 2B |

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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN1325
- **UN proper shipping name**
- **DOT** Flammable solids, organic, n.o.s. (Turpentine substitute)
- **IMDG, IATA** FLAMMABLE SOLID, ORGANIC, N.O.S. (TURPENTINE SUBSTITUTE)

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· **Transport hazard class(es)**· **DOT**· **Class**

4.1 Flammable solids, self-reactive substances and solid desensitised explosives

· **Label**

4.1

· **IMDG, IATA**· **Class**

4.1 Flammable solids, self-reactive substances and solid desensitised explosives

· **Label**

4.1

· **Packing group**· **DOT, IMDG, IATA**

II

· **Environmental hazards:**· **Marine pollutant:**

No

· **Special precautions for user**

Warning: Flammable solids, self-reactive substances and solid desensitised explosives

· **Hazard identification number (Kemler code):** 40· **EMS Number:**

F-A,S-G

· **Stowage Category**

B

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **DOT**· **Quantity limitations**On passenger aircraft/rail: 15 kg  
On cargo aircraft only: 50 kg· **IMDG**· **Limited quantities (LQ)**

1 kg

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

· **UN "Model Regulation":**

UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (DIESEL FUEL), 4.1, II

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## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

|            |                                     |        |
|------------|-------------------------------------|--------|
| 1309-37-1  | diiron trioxide                     | ACTIVE |
| 64741-65-7 | Naphtha (petroleum), heavy alkylate | ACTIVE |
| 1308-14-1  | dichromium trioxide hydrate         | ACTIVE |

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

1317-80-2 Rutile (TiO<sub>2</sub>)

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

|           |                            |    |
|-----------|----------------------------|----|
| 1309-37-1 | diiron trioxide            | A4 |
| 1317-80-2 | Rutile (TiO <sub>2</sub> ) | A4 |

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1317-80-2 Rutile (TiO<sub>2</sub>)

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Naphtha (petroleum), heavy alkylate  
Rutile (TiO<sub>2</sub>)

- **Hazard statements**

Flammable solid.

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May cause genetic defects.

May cause cancer.

· **Precautionary statements**

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Product Safety Dept.

· **Date of preparation / last revision** 02/04/2020 / 3

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Sol. 1: Flammable solids – Category 1

Muta. 1B: Germ cell mutagenicity – Category 1B

Carc. 1B: Carcinogenicity – Category 1B

· **\* Data compared to the previous version altered.**