

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

- 1.1 Identification of the substance or preparation:
Commercial product name: **Crushed Ruby** Item# 8541297
- 1.2 Use of substance / preparation
Identified uses **Abrasive applications,
refractories and ceramic applications,
production of wear-resistant materials,
surface treatment, fillers**
- 1.3 Company/Supplier: Paul H. Gesswein & Co., Inc.
201 Hancock Ave., Bridgeport, CT 06605
Phone: 203-366-5400, FAX: 203-366-3953
email: info@gesswein.com, **www.gesswein.com**
- 1.4 Emergency information:..... **Emergency phone number: CHEMTELL - 800-255-3924**
Department responsible for information:.....

2 HAZARDS IDENTIFICATION

Critical hazards to man and environment **Not classified as hazardous goods**
Classification EC 1272/2008(CLP) **No hazards characteristics,**
EC 67/548/EEC or 1999/45/EC:..... **No R- or H-phrases**

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization (substance):
Definition according to EC directive:..... **Aluminium oxide (Al₂O₃)**
CAS No.: **1344 - 28 - 1**
EINECS No.: **215 - 691 - 6**
REACH Reg. No.: **01-2119529248-35-0065**

4 FIRST AID MEASURES

- 4.1 Inhalation: **Move to fresh air, consult a physician if necessary.**
- 4.2 Skin contact : **Mechanical (dry) removal. Subsequent rinsing with water.**
- 4.3 Eye contact: **Flush with plenty of water.
Seek medical advice if irritation persists.**
- 4.4 Ingestion: **Rinse out mouth and give water to drink.
Seek medical advice.**

5 FIRE FIGHTING MEASURES

- | | | |
|-----|---|--|
| 5.1 | Suitable extinguishing media:..... | Not inflammable. Use extinguishing measures appropriate to the source of the fire. |
| 5.2 | Extinguishing media which must not be used for safety reasons: | None know |
| 5.3 | Special exposure hazards arising from the substance itself, combustion products, resulting gases: | None know |
| 5.4 | Special protective equipment:..... | Not applicable |

6 ACCIDENTAL RELEASE MEASURES

- | | | |
|-----|----------------------------------|--|
| 6.1 | Personal precautions:..... | Avoid dust formation. In case of exposure to high levels of airborne dust, wear personal protective equipment (see also item 8). |
| 6.2 | Environmental precautions: | No special measures required. |
| 6.3 | Methods for cleaning up:..... | Pick up mechanically and dispose of in accordance to regulations. |

7 HANDLING AND STORAGE

- | | | |
|-----|---|---------------------------------------|
| 7.1 | Handling:
Precautions for safe handling:..... | Avoid dust formation. |
| | Precautions against fire and explosion:..... | No danger of fire and dust explosion. |
| 7.2 | Storage:
Conditions of storage rooms and vessels: .. | No special precautionary measures. |
| | Advice of storage of incompatible materials: | None |

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- | | | |
|-------|--|--|
| 8.1 | Exposure limit values: | Not applicable |
| 8.1.1 | Components with specific control parameters as limit values: | Observe the local bylaws in terms of fine dust (e.g.: OSHA-PEL value 15 mg/m ³ total dust; 5 mg/m ³ for respirable dust; TRGS 900 10 mg/m ³ respirable, 3 mg/m ³ alveolar) |
| 8.2 | Exposure controls | |

- 8.2.1 Occupational exposure controls:
- Respiratory protection: Avoid inhaling the dust.
Fine-dust mask with category P2 filter must be used if fine dust limits are exceeded.
- Hand protection: Protective gloves are recommended.
- Eye protection: Safety glasses are recommended.
- General protection and hygiene measures: Observe standard industrial hygiene practice.
- 8.2.2 Environmental exposure controls No special exposure controls required.

9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance:
- Form: Grains, powder
- Colour: Red
- Odour: Odourless
- 9.2 Safety relevant basic parameters:
- Change in physical state: Melting point approx. 2000°C
- Flash point: Not applicable
- Flammability: Not flammable
- Ignition temperature: Not applicable
- Autoflammability: Not auto flammable
- Oxidizing properties: Not applicable
- Explosive properties: Not applicable
- Explosive limits: Not applicable
- Vapour pressure: Not applicable
- Specific gravity: (3,7 - 4,5) g/cm³
- Bulk density: (500- 2500) kg/m³
- Solubility in water: Practically insoluble,
- pH value: Not applicable
- Partition coefficient n-octanol/water: Not applicable

10 STABILITY AND REACTIVITY

- 10.1 Conditions to avoid: None
- 10.2 Materials to avoid: None
- 10.3 Hazardous decomposition products: The material is stable, no hazardous reactions known.

11 TOXICOLOGICAL INFORMATION

- 11.1 Toxicokinetics: No bio accumulating potential.
- 11.2 Acute effects/toxicity tests)

oral :	Not applicable. Not a relevant exposure route.
Dermal :	Not applicable
Inhalation :	Not applicable
Skin corrosion:	Not corrosive
Skin irritation :	Not irritating
Eye irritation:.....	Not irritating
Sensitisation:.....	Not sensitising
Repeated dose Toxicity:	
Oral:	Not applicable. Not a relevant exposure route.
Inhalation:	Not applicable
CMR effects:.....	There is no evidence of any CMR effects.

12 ECOLOGICAL INFORMATION

12.1	Ecotoxicity:	No harmful effects on water organisms anticipated. The substance is highly insoluble in water.
12.2	Mobility - distribution to terrestrial compartments:	Not applicable
12.3	Persistence and degradability:.....	Not applicable for inorganic substances.
12.4	Results of PBT assessment:	Aluminiumoxide is not a PBT substance.
12.5	Other adverse effects	None

13 DISPOSAL CONSIDERATIONS

13.1	Appropriate disposal:.....	Reuse or recycle when possible. Can be stored with domestic waste. Observe local bye-laws.
13.2	Contaminated packaging:.....	Packaging has to be emptied entirely. Recycling of used packaging is recommended. Local bye-laws must be observed.

14 TRANSPORT INFORMATION

- 14.1 Land transport:
GGVS / ADR - classification: Not classified as hazardous material.
GGVE / RID: Not classified as hazardous material.
- 14.2 Inland waterways:
GGVBisch / ADNR - classification: Not classified as hazardous material.
- 14.3 Maritime transport:
GGVSee / IMDG - classification: Not classified as hazardous material.
- 14.4 Air transport:
ICAO-TI / IATA - classification: Not classified as hazardous material.

15 REGULATORY INFORMATION

- 15.1 Classification according to EC guidelines:
Labelling EC No 1272/2008: The product is not classified. No hazard symbol is necessary.
Labelling (67/548/EEC or 1999/45/EC) None
Hazard symbols None
- 15.2 National regulations:
e.g.: (Germany) Classification according VbF: Not subjected to VbF.
Water Pollution Category: Not water polluting (VwVwS (Germany) dated 27.07.2005, enclosure 1).

16 OTHER INFORMATION

- 16.1 Relevant R- and H-Phrases: None
Studies by the Institute for Hygiene and Industrial Medicine of the University of Essen showed that fused aluminium oxide (corundum) is inert and possesses no toxic or carcinogenic properties.
This information covers the safety requirements of the product(s) exclusively and is based on current knowledge and experience. It does not represent a guarantee for properties of the described product(s) in terms of the legal warranty regulations.
- The product specification is contained in a separate product data sheet.
- 16.2 Issuer of MSDS TS EHS
- 16.3 Annex Exposure Scenarios
As a result of the hazard assessment and PBT/vPvB assessment it is found that Substance Aluminium Oxide (CAS# 1344-28-1) does not meet the criteria for classification as hazardous (according to the directives 67/548/EEC and 1272/2008/EC) nor it is considered to be a PBT/vPvB. An exposure assessment and the subsequent step of risk characterisation are not required.