

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

1.1	Identification of the substance or preparation:	Aluminum oxide CAS 1344 - 28 - 1
	Commercial product name:	WSK
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/manufacturer: Manufacturer/distributor: PB No./street: State/postal code/city: Country: Telephone: Telefax: Email:	Imerys Fused Minerals Villach GmbH Imerys Fused Minerals Villach GmbH PB No. 1 / Seebach 2 A- 9523 Villach Austria 0043 4242 4188 5 - 0 0043 4242 42 65 3 ifm-vi@imerys.com
1.4	Emergency information: Department responsible for information:	00 44 (0) 2 07 77 71 53 10 EHS

2 HAZARDS IDENTIFICATION

Critical hazards to man and environment Classification EC 1272/2008(CLP) GHS	Not classified as hazardous goods No Hazards characteristics, No H-Phrases, no pictogram
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3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization (substance): Definition according to EC directive: CAS No.: EINECS No.: REACH Reg. No.:	Aluminium oxide (Al ₂ O ₃) 1344 - 28 - 1 215 - 691 - 6 01-2119529248-35-0065
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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

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|-----|----------------------------|---|
| 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

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|-----|--|--|
| 7.1 | Handling:
Precautions for safe handling:
Precautions against fire and explosion: | Avoid dust formation
No danger of fire and dust explosion |
| 7.2 | Storage:
Conditions of storage rooms and vessels:
Advice of storage of incompatible materials: | No special precautionary measures
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, 1,25 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:
General protection and hygiene measures:

Safety glasses are recommended
Observe standard industrial hygiene practice
No special exposure controls required

8.2.2 Environmental exposure controls

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:

Form:

Colour:

Odour:

Grains, powder

Brown, Bluish, Grey, Black, White, Pink

Odourless

9.2 Safety relevant basic parameters:

Change in physical state:

Flash point:

Flammability:

Ignition temperature:

Autoflammability:

Oxidizing properties:

Explosive properties:

Explosive limits:

Vapour pressure:

Specific gravity:

Bulk density:

Solubility in water:

pH value:

Partition coefficient n-octanol/water:

melting point approx. 2000°C

Not applicable

Not flammable

Not applicable

Not auto flammable

Not applicable

Not applicable

Not applicable

Not applicable

(3,7 - 4,5) g/cm³

(500- 2500) kg/m³

Practically insoluble,

Not applicable

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



Safety Data Sheet

according to 1907/2006 EEC and 2015/830.

ALUMINIUM OXIDE (Al₂O₃)

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.****13.2 Contaminated packaging:****Observe local bye-laws
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: GGVE / RID:	Not classified as hazardous material 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: Labelling (67/548/EEC or 1999/45/EC) Hazard symbols	The product is not classified. No hazard symbol is necessary. None None
15.2	National regulations: e.g.: (Germany) Classification according VbF: Water Pollution Category:	Not subjected to VbF Not water polluting (VwVwS (Germany) dated 27.07.2005, enclosure 1)
15.3	USA TSCA, CAS#1344-28-1	listed
15.4	Canada DSL CAS#1344-28-1	listed

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 MDS IFM-Vi 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.