Zhengzhou Xinli Wear Resistant Material Co.,Ltd.

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: White Fused Alumina

Trade name: White Fused Alumina, Electrocorundum, Corundum,

Aluminium Oxide, EKP, EKF, EKR, Korvisit.

REACh-Registration No.: 01-2119529248-35-0023

CAS name: Aluminium oxide
CAS number: 1344-28-1
EU name: Aluminium oxide

EU number: 215-691-6

IUPAC name:oxo(oxoalumanyloxy)alumaneSubstance type:mono constituent; inorganic substance

1.2 Relevant identified uses of the substance or mixture and uses

advised against: abrasives, refractory and ceramics applications, bonded and

coated abrasives, filter and catalyst carriers, glass, fillers, water treatment, industrial application, lubricant, greases,

chemical reagents, feedstock Counterproposal use: none.

1.3 Details of the supplier of the safety data sheet:

Manufacturer: Zhengzhou Xinli Wear

Resistant Material

Co.,Ltd.

E-mail (competent):

abrasivematerial@outl

ook.com

Company telephone: +86 158 3719 1978

Company homepage: https://www.xinliabrasive.com/

1.4 Emergency telephone number: +86 158 3719 1978

E-mail: xinli-abrasivematerial@outlook.com

2. Hazards identification:

Emergency Overview

Critical hazards to human and environment None

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2.1 Classification of the substance or mixture:

GHS Classification Not classified. No H-phrases.

CLP Classification

(Regulation (EC) No 1272/2008)

EC Classification.

(Annex I. Of Directive 67/548/EEC) Not classified. No R-phrases.

2.2 Label Elements

Symbol: None

Signal word: No signal word.

Labelling according to Regulation

(EC) No 1272/2008: None/No signal word

Labelling according to

Directive 67/548/EEC: None/No signal word

Precautionary statements: P 261: Avoid breathing dust.

P280: Weareye protection.

Not classified as hazardous.

P285: In case of inadequate ventilation wear respiratory

protection.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy

to do - continue rinsing.

P302+352: IF ON SKIN: Wash with soap and water.

2.3 Other hazards: None

3. Composition/information oningredients:

3.1 Substances:

CAS-No.: 1344-28-1 EINECS No.: 215-691-6

REACh Registration No: 01-2119529248-35-0023

Purity: 99-100%(w/w) typical: ca. 99.7%

CAS#	EC#	Component	Concentration %	Classification	R- phrase
1344-28-1	215-691-6	Aluminium oxide (non-fibrous)	> 99.5		

Hazard impurities: No hazardous impurities.

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4. First aid measures:

4.1 Description of first aid measures:

> Inhalation: Move to fresh air. Consult physician of necessary.

Skin contact: Mechanical dry removal.

Eye contact: In case the material gets into the eye rinse with full water

needed keeping the lids open and the eyeball moving. Seek

medical advice if mechanical irritation persists.

Rinse mouth and give plenty of water to drink. Seek medical Ingestion:

advice.

4.2 Most important symptoms and

effects, both acute and delayed:

Non

4.3 Indication of any immediate medical

attention and special treatment

needed: None

5. Firefighting measures:

5.1 Extinguishing media: The substance is not inflammable and non-explosive. Fire

hazard classification: E.

Fire extinguishing method of surrounding areas must be

considered.

Unsafe extinguishing media: none.

5.2 Special hazards arising from the

> substance or mixture: None

5.3 Advice for firefighters: None

6. Accidental release measures:

6.1 Personal precautions, protective

equipment and emergency

procedures:

Avoid dust formation. In case of exposure to high level airborne dust wear a personal respirator in compliance with

national legislation. See section8.

6.2 **Environmental precautions:** Avoid dispersal of spilled material and runoff. Avoid creating

dusty conditions and prevent wind dispersal. Collect material

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for recycling if possible.

6.3 Methods and material for

containment and cleaning up: The material can be taken up mechanically and disposed of

observing the local regulations.

6.4 Reference to other sections: See section 2.2 Label elements; 7. Handling and storage;

8. Exposure controls/personal protection; 13. Disposal

considerations

7. Handling and storage:

General advice: Handle in accordance with good industrial hygiene and safety practice. Wear suitable personal protective clothing and equipment.

7.1 Precautions for safe handling:

Advice on safe handling: Avoid dust formation. No special handling advice required.

Precautions against fire and explosion: No possible danger of fire and dust explosion.

7.2 Conditions for safe storage, including any incompatibilities:

Condition of storage rooms and tanks: No any special precautions required.

Further information of storage: Store in dry area

7.3 Specific end use(s): Abrasives, refractory and ceramics applications, bonded

and coated abrasives, filter and catalyst carriers, glass, fillers, water treatment, industrial application, lubricant,

greases, chemical reagents, feedstock

8. Exposure controls/personal protection:

8.1 Control parameters:

Exposure limit values for White Fused

Alumina: Not applicable

Components with specific

controlparameters as limit values Occupational exposure limits (air): generally same as for nuisance

. .

dust

Hungary

10*/6** mg/m3 (*inhalable dust; ** respirable dust) 25/2000 (IX.30.) EüM-SZCSM regulation for inert dusts

Germany

10*/3** mg/m3 (*inhalable dust; ** respirable dust)

Great Britain

10*/4** mg/m3 (*inhalable dust; ** respirable dust)

United States

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OSHA 15 mg/m3 (total dust); 5 mg/m3 TWA (respirable

fraction)

Some additional EU countries

10 mg/m³ (include national OEL if this exists)

8.2 Exposure controls:

Occupational Exposure Controls: Avoid dust formation. Appropriate local exhaust ventilation

recommended.

Personal Protection Equipment

Respiratory protection: In case of insufficient ventilation and exposure to high levels of

airborne dust, wear suitable respiratory equipment. Recommended filter type: Filter P2 (acc. To DIN3181)

Recommended filter type: Filter P2 (acc. 10 t

Hand protection: Wear suitable gloves

Glove material: Textile Mechanical Harm Category 2,

Protection: Protection level: EN 3883132
Use: Sieving process, packaging

Glove material: Leather Mechanical Harm Category 2,

Protection: Protection level: EN 388 3123, 3133
Use: Fusing process, grinding, sieving

Eye protection: Wear safety glasses with side shields (frame goggles).

Skin Protection: No special protective equipment required.

Hygiene measures: Do not eat, drink or smoke when handling. Wash hands after

handling and before eating.

Environmental exposure controls: No special exposure controls required.

9. Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Physical state: solid powder or grains

white odorless

9.2 Other information:

Colour: Odour:

Grain size: 20 mesh

Odour threshold:

Initial boiling point and boiling

range: 2980 °C at 1013 hPa

Evaporation rate: not applicable

Upper/lower flammability or

explosive limits: not applicable Vapour pressure: 1 hPa at 2158 °C

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Vapour density: not applicable

Solubility(ies): in water: very low (0.00002g/L at 20 °C)

Auto-ignition temperature: not applicable Decomposition temperature: notapplicable Viscosity: not applicable pH-value: not relevant Melting point: approx. 2080 °C Boiling point: notrelevant Flash point: notrelevant 3.99 g/cm3 (20°C) Density:

Solubility in water: insoluble Flammablity: notrelevant Explosive properties: notrelevant

Oxidizing properties: no

Thermal decompostion: not applicable n-Octanol water coefficient: not applicable other physical-chemical properties: not relevant

10. Stability and reactivity:

General information: The material is stable under normal conditions of use, storage

and handling/transport.

10.1 Reactivity: The substance is not reactive.

10.2 Chemical stability: The substance is stable under normal conditions.

10.3 Possibility of hazardous reactions: No hazardous reactions known.

10.4 Conditions to avoid: None

10.5 Incompatible materials: None

10.6 Hazardous decomposition products: No hazardous decomposition products known.

11. Toxicological information:

11.1 Information on toxicological Oral uptake < 0.

effects:

Oral uptake < 0.1%, nearly insoluble in lung fluids, most absorbed aluminium oxide is rapidly excreted through urine,

main deposit in body is in bone structure.

Acute effects (acute toxicity, irritation

and corrosivity):

No acute effects

Acute toxicity: LD50 (oral): > 2000 mg/kg bwt(rats)

LD50 (dermal): No effect LC50 (inhalation): > 2,3 mg/l(rats)

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Specific symptoms in animal tests: After swallowing: None

After skin contact: None After inhalation: None

Irritation and Corrosive effects: Irritant effects on skin: No effects

Irritant effect on eyes: No effects

Sensitisation: After skin contact: None

After inhalation: None

Toxicity after repeated intake (sub acute, sub chronic, chronic):

Sub acute oral Toxicity: None, Calculated DNEL 6,2 mg/kg bwt/day

Sub acute inhalation Toxicity: None see occupational exposure limits, calculated.

DNEL:15,6 mg/m³ respirable

Assessment:

CMR-effects (carcinogenic, mutagenic and reproductive effects)

Carcinogenicity: None Mutagenicity: None Reproductive toxicity: None

Assessment of CMR properties: Not classified for CMR

Product components not listed under IARC/NTP/ACGIH (ingredient carcinogenicity)

Practical experience:

Observations relevant for classification: none Other observations: none

12. Ecological information:

12.1 Toxicity: Study scientifically unjustified. The substance is highly

insoluble in water. The dissolved material ions from the tets substance do not exceed the concentration of metal ions in natural surface waters. As such, it is clear that the Aluminium Oxide/White Fused Alumina mineral is not entering the environment in quality or concentration or under conditions that have or may have an immediate or long-term harmful

effect on the environment.

12.2 Persistance and degradability:

Persistance: No relevant for inorganic substance

Biological degradability: Not degradable

12.3 Bioaccumulative potential: Not applicable.

12.4 Mobility in soil: Not mobile under normal environmental conditions may be

leached from the ground at low pH (< 5.5) or high pH (> 8.5).

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12.5 Results of PBT and

vPvB assessment: Not PBT or vPvB substance.

12.6 Other adverse effects: None

Final assessment No acute or chronic classification is appropriate for Al metal

massive based on non toxic results below the Ecotoxicity Reference Value (ERV) of tests with aluminium metal, oxide and hydroxide at loadings of 100 mg/L at pH 8-8.5 (maximum

solubility of Alexpected).

All aluminium in soil or the aquatic environment comes from

natural sources. Local sources has an insignificant

contribution and impact on environment

13. Disposal considerations:

13.1 Product disposal: Reuse or recycle when possible. The material can be stored

with domestic waste in accordance with the authoritative local regulations. The used packaging should be emptied entirely. Recycling of the used packaging is recommended observing

the local regulations.

14. Transport information:

14.1 UN number: UN numbers are four-digit numbers that identify hazardous

substances.

UN number: Non hazardous material.

14.2 UN proper shipping name:

GGVS/ADR classification:

GGVE/RID classification:

Non hazardous material.

Non hazardous material.

Inland waterways:

GGVBisch/ADNR classification: Non hazardous material.

Maritime transport:

GGVSee/IMDG classification: Non hazardous material.

Air transport:

ICAO-TI/IATA classification: Non hazardous material.

14.3 Transport hazard class(es): Non hazardous material.

14.4 Packing group: Non hazardous material.

14.5 Environmental hazards: Non hazardous material.

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14.6 Special precautions for user: Non hazardous material.

14.7 Transport in bulk according to

Annex II. of MARPOL73/78 and

the IBC Code: Non hazardous material.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

EU Regulations

Labelling

Regulation (EC) No. 1272/2008 This product is not classified and labelled in accordance within

EC directives

CAS-No.: 1344-28-1 EINECS No.: 215-691-6 Hazard symbols None

Signal word No signal word

Hazard statements None Precautionary statements None

Hazard determining components for

labelling None
Authorisation, TITEL VII Not applicable
Restriction TITEL VII Not applicable

VOC (1993/13/CE) 0%

Water pollution class Not classified

15.2 Chemical safety assessment: Chemical Safety Report (CSR) of Aluminium oxide

16. Other information:

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R-phrases: None

Further information: The current labour hygiene and authoritative regulations

should be observed.

The presented information is based on the available literature

and the experiences of the manufacturer.

The MSDS includes information exclusively in regards of the

safety aspects of the relevant material.

Annex - Exposure Scenarios As a result of the hazard assessment and PBT/vPvB

assessment it is found that SUBSTANCE Aluminium Oxide/White Fused Alumina (CAS# 1344-28-1) does not meet the criteria for classification as hazardous (according the Directives 67/548/EEC and 1272/2008/EC) nor is it considered to be a PBT/vBvB. An exposure assessment and the subsequent stop of risk characterization is not required.

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.

Abbreviations and acronyms:

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety and Health Administration (US)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

Bwt bodyweight

PNEC Potential No Effect Concentration
DNEL Derived No Effect Level
DOC Dissolved Organic Compounds

Mosonmagyaróvár, 17.12.2012