SAFETY DATA SHEET

EC No.1907/2006 (EEC 93/112; EEC2001/58) **Brown Fused Aluminium Oxide (Al2O3)**

Printing date 1 February 2022

1. CHEMICAL PRODUCT

1.1. Product

Brown Fused Aluminium Oxide Trade name:

PJSC "Zaporozhsky Abrasivny Combinat" 1.2. Trader's name:

Oleksiya Porody str. 44 Address:

Ukraine 69014 Zaporozhye

+38 061 287 63 09 Tel.: +38 061 287 67 37 Fax: E-Mail: export@abrasive.zp.ua

2. HAZARDDOUS IDENTIFICATION

2.1. Classification of the substance/preparation according

to Regulation (EC) 1272/2008 (CLP):

2.2. Classification of the substance/preparation according

to Directive 1999/45/EC:

2.3. Label elements according to Regulation (EC)

1272/2008 (CLP):

Not officially listed hazardous substance

No specific toxicity described, no R- or H-

Phrases

No Labelling required

3. COMPOSITION

Chemical Characteristic (active ingredient):

Definition according to ES directive: Aluminium oxide (Al2O3)

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

4. FIRST AID MEASURES:

4.1. Description of first aid

measures:

General comments: Take medical advice if symptoms occur or in cases of doubt. Inhalation:

Move exposed person to fresh air. Get medical attention if

symptoms occur.

No special action required, remove mechanically and flush with Skin contact:

Eye contact: Flush with plenty of water. Seek medical advice if irritation

persists.

No special action required. Seek medical advice if irritation Ingestion:

persists.

None.

4.2. Most important symptoms and

effects, both acute and delayed:

4.3. Indication of any immediate

medical attention and special

treatment needed:

Pulmonary irritation, local rashes, itching, coughing.

5. FIRE FIGHTING MEASURES

5.1. Generally: Not inflammable. Inflammable. Packaging.

5.2. Suitable extinguishing media: Use extinguishing measures appropriate to the

source of the fire.

5.3. Extinguishing media which must not be used for

safety reasons:

5.4. Special exposure hazards arising from substance itself, combination products, resulting gases:

5.5. Special protective equipment:

None known.

None known.

Use a filtration half mask (EN 149), P3 (filtert

min. 99,95% air particals.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions: Avoid dust formation (see also item 8.3.)

6.2. Environment precautions:

No special measures required

6.3. Methods for cleaning up: Take 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: Store in accordance with local regulatios.

Avoid creating dusty conditions and prevent

wind dispersal.

Advice of storage of incompatible materials: None Further information of storage: None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limits:

Country	Product	CAS-Nr.	Note	Identifier	TWA	STV	STV	Source)
					(mg/m^3)	(mg/m^3)	(min)	
UA	General		I	AGW	10	20	15	TRGS
	dust limit							900
UA	General		I	MAK	4			DFG
	dust limit							
UA	General		R	AGW	1.25	2.4	15	TRGS
	dust limit							900
UA	General		R	MAK	0.3	2.4	15	DFG
	dust limit							
UA	General	1344-28-1	I dust	MAK	4.1.5			DFG
	dust limit							
UA	General	1344-28-1	I dust	MAK				DFG
	dust limit							

Notice:

I: inhalable fraction

STV: short term value (short-term exposure limit): A limit value above which exposure should not occur and which is related to a 15 minute period unless otherwise specified.

R: alveolar fraction

TWA: time-weighted average (long term exposition limit) mesuared or calculated in relation to a reference period of eight-hours time-weighted average.

Relevant DNEL-/DMEL-/PNEC- and other thresholds

Relevant values for human health protection:

Type	Limit	Protection target, way of exposure
DNEL	15.63 mg/m^3	Human, inhalation
DNEL	3.29 mg/m^3	Human, oral

Relevant values for the environment:

Type	Limit	Organism					
PNEC	74.9 µg/l	Aquatic organisms					
PNEC	20 mg/l	Microorganisms					

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8.2. Exposure control:

Appropriate engineering controls: Use only with adequate ventilation. If user operations generate

dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommender or

statutory limits.

Individual protection measures:

Eye/face protection: The use of a protective eyewear with side protectors is

recommended.

Skin protection:

Hand protection: Wear suitable protection gloves.

Body protection: No special protective clothing is required.

Otherskin protection: Skin recovery phase should be organized. Preventive skin

protection is recommended (protective cream etc.). Wash hands after handling the material. Wear appropriate work clothes. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.

Respiratory protection: Respirators must be used according to a respiratory protection

program to ensure proper fitting, training and other important

aspects and use.

Emissions from ventilation or work process equipment should be

checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume

Environmental exposure controls: scrubbers, filters or engineering modifications to the process

equipment will be necessary to reduce emissions to acceptable

levels.

9. PHYSICAL AND CHEMICAL PROPERTIES.

9.1. Appearance:

Form: Crude, grain, powder Colour: Grey, brown, black

Odorless Odorless

9.2. Safety parameters:

Change in physical state: Melting point appr. 2000

C

Flash point:

Flammability:

Ignition temperature:

Auto flammability:

Oxidizing properties:

Explosive properties:

Explosive limits:

Not applicable

Not applicable

Not applicable

Not applicable

Vapor pressure:

Bulk density:

Not applicable
Approx. 500-2500 kg/m³

 $3.60-4.00 \text{ g/cm}^3$

Specific gravity:

Solubility in water:

PH-value:

Insoluble

Not applicable

Not applicable

Partition coefficient n-Octanol / water:

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10. STABILITY AND REACTIVITY

10.1. Reactivity: No specific test data related to reactivity available

for this product or its ingredients.

10.2. Chemical stability: The product is stable.

Under normal conditions of storage and use, 10.3. Possibility of hazardous reactions:

hazardous reactions will not occur.

10.4. Conditions to avoid: Not applicable 10.5. Materials to avoid: Not applicable 10.6. Hazardous decomposition: Not known

11. TOXICOLOGICAL INFORMATION

11.1. General information: No hazardous effects known, if used under normal

conditions.

11.2. Acute toxicity: Not known

11.3. Irritation: No significant irritation expected other than

possible mechanical irritation.

No harmful effects identified, based on available 11.4. Carcinogenicity:

11.5. Mutagencity: No harmful effects identified, based on available

date.

11.6. Toxicity for reproduction: No harmful effects identified, based on available

date.

12. ECOLOGICAL INFORMATION

12.1. Information on elimination Chemically inert and insoluble in water. Separation (persistence and degradability):

by mechanical processes (sedimentation, filtration

Aluminium oxide is not a PBT or vPvB substance

etc.)

12.2. Results of PBT and vPvB

assessment:

12.3. Ecotoxicity: No harmful effects on water organisms anticipated.

The substance is highly insoluble in water.

No potentials known 12.4. Bio accumulative potential:

12.5. Mobility in soil: No harmful effects known

No environmental problems expected, if handled 12.6. Further ecological information:

and treated in accordance with standard industrial

practice.

13. DISPOSAL CONSIDERATIONS

13.1. Material: Recycle, if possible. The generation of waste should

be avoided or minimized wherever possible.

Dispose of surplus and nonrecyclable products via a

licensed waste disposal contractor.

Packaging has to be emptied entirely. Recycling of 13.2. Contaminated packaging:

used packaging is recommended. Observe local

bylaws.

14. TRANSPORT INFORMATION

14.1. Land transport:

GGVS/ADR – classification: Non hazardous material GGVE/ RID - classification: Non hazardous material

14.2. Inland Waterways

GGVBisch/ADNR – classification: Non hazardous material

14.3. Maritime transport

GGV Sea/IMDG- classification: Non hazardous material

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14.4. Air transport:

ICAO-TI/IATA – classification: Non hazardous material

14.5. Special precautions: Transport within user's premises: always transport

in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.6. Transport in bulk according to the Not available.

Annex II of Marpol and the IBC code:

15. REGULATORY INFORMATION

15.1. Classification according to EC

The substance is not classified. No hazard symbol is

guidelines. Danger symbol and danger text necessary. according EC No 1272/2008:

15.2. Labelling according 67/548/EEC or None

1999/45/EC:

15.3. Hazard symbols:
None
15.4. National regulations:
Risk class according to VbF:
Not known

Water pollution category: Not water hazardous

16. OTHER INFORMATION

Abbreviations and Acronyms:

Abbreviation:

CAS Chemical Abstracts Service

CLP Regulation (EC) Nr. 1272/2008 on the classification, labeling and

packaging

DMEL Derived Minimal Effect Level
DNEL Derived No-Effect Level

PBT Persistent, Bioaccumulative and Toxic PNEC Predicted No-Effect Concentration TRGS Technical Rules on Hazard Substances

TRGS 900 Occupational Limit Vales

vPvB Very Persistent and very Bioaccumulative

This information covers the safety requirements of the product exclusively and bases on current knowledge and experience. It does not represent a guarantee for properties of the described product in terms of legal warranty regulations.