



AMERICAN TOOTH INDUSTRIES

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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	Milling & Polishing Cream
Product Description	Tube: Light Pink Polishing Paste
Manufacturer	American Tooth Industries 1200 Stellar Drive Oxnard, CA 93033 805-487-9868 Emergency Phone Number: Infotrac: 800-352-5053
Recommended use	Final occlusal refinement of plastic teeth as a milling media, removal of residual plaster from cervical and interproximal areas of all plastic dentures, finishing of cast metal restorations, removal of adhering plaster from tissue surface side of plastic dentures, at-the-chair polishing of any plastic restoration and finishing of amalgam fillings and gold inlays in the mouth.
Restrictions on use	Not known

2. HAZARDS IDENTIFICATION

Hazard classification	
GHS Classification	Not classified. No H-phrases.
CLP Classification (Regulation (EC) No 1272/2008)	Not classified as hazardous
EC Classification (Annex I. Of Directive 67/548/EEC)	Not classified. No R-phrases.
Signal Word	No signal word
Hazard Statements	None
Symbol	None

Precautionary statements

P 261: Avoid breathing dust.
P280: Wear eye protection
P285: In case of inadequate ventilation wear respiratory protection.
P305+351+338: IF IN EYES: Rinse continuously 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.

Other hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Statement for unknown toxicity

None

Chemical name

White Fused Alumina (Al_2O_3)

Common name/synonyms

White Fused Alumina, Electrocorundum, Corundum

Impurities and stabilizing additives

Chemical Name	Weight-%	CAS Number
Aluminum oxide (non-fibrous)	70-80%	1344-28-1
Petroleum	10-20%	8009-03-8
Zinc Oxide	0-10%	1314-13-2

*Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

4. FIRST AID MEASURES**Description of First Aid Measures**

Inhalation

Move to fresh air. Consult physician if necessary.

Skin Contact

Mechanical dry removal.

Eye Contact

In case the material gets into the eye, rinse with full water by keeping the lids open and eyeball moving. Seek medical advice if mechanical irritation persists.

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

Most important symptoms or effects, both acute and delayed:

None

Indication of immediate medical attention and special treatment needed:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media The substance is not inflammable and non-explosive. Fire hazard classification: E. Fire extinguishing method of surrounding areas must be considered.

Unsuitable extinguishing media None

Special hazards arising from substance None

Special protective equipment and Precautions for fire fighters None

6. ACCIDENTAL RELEASE MEASURES

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 section 8.

Environmental precautions Avoid dispersal of spilled material and runoff. Avoid creating dusty conditions and prevent wind dispersal. Collect material for recycling if possible.

Methods and materials for containment and cleaning up The material can be taken up mechanically and disposed of observing the local regulations.

7. HANDLING AND STORAGE

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

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.

Storage Store in dry area

Storage temperature	Store at room temperature
Incompatible materials	N/A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limits Not applicable

**ACGIH Threshold Limit Values
Components with specific
control parameters 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

**Other limitations recommended
Occupational Exposure Controls:** Not Applicable

**Personal Protection Equipment
Respiratory protection:** Not Applicable

Recommended filter type: Filter P2 (acc. To DIN3181)

Hand protection: Wear suitable gloves

Glove material: Textile

**Mechanical Harm Category 2,
Protection:** Protection level: EN 388 3132

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.

Appropriate Engineering Controls N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste
Color	Light pink
Odor	Odorless

Odor Threshold	Not applicable
pH	Not relevant
Melting Point	Not applicable
Freezing Point	Not applicable
Initial Boiling Point	Not applicable
Boiling Range	1013 hPa
Flash Point	Not relevant
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability limits	Not applicable
Explosive Limits	Not applicable
Vapor Pressure	1 hPa at 2158 °C
Vapor Density	Not applicable
Relative Density	Not applicable
Solubility	In water: very low (0.000002g/L at 20 °C)
Partition Coefficient: n-octano/water	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Viscosity	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	The substance is not reactive.
Chemical Stability	The substance is stable under normal conditions.
Hazardous Reactions	No hazardous reactions known.
Conditions to avoid	None
Materials to avoid	None
Hazardous Decomposition Products	No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Identify likely routes of exposure: Oral uptake <0.1%, nearly insoluble in lung fluids, most absorbed aluminum oxide is rapidly excreted through urine, main deposit in body is in bone structure.

Inhalation	No data available
Ingestion	No data available
Skin	No data available
Eye	No data available

Description of delayed, immediate or chronic effects from short term and long term exposure:

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)
Toxicity after repeated intake (sub acute, sub chronic, chronic):	
<i>Sub acute oral Toxicity:</i>	None, Calculated DNEL 6,2 mg/kg bwt/day
<i>Sub acute inhalation Toxicity:</i>	None, see occupational exposure limits, calculated. DNEL:15,6 mg/m ³ 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

Description of symptoms:

Specific symptoms in animal tests: After swallowing: None

After skin contact: None

After inhalation: None

Irritation and Corrosive effects: No effects

Irritant effects on skin: No effects

Irritant effect on eyes: No effects

Sensation: After skin contact: None

After inhalation: None

Listed in the National Toxicology Program (Y/N) No

12. ECOLOGICAL INFORMATION (If available)

Toxicity: Study scientifically unjustified. The substance is highly insoluble in water. The dissolved material ions from the tests 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.

Persistence and degradability: Persistence: No relevant for inorganic substance
Biological degradability: Not degradable

Bioaccumulative potential: Not applicable.

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).

Results of PBT and vPvB assessment: Not PBT or vPvB substance.

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 Al expected). 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 (If applicable)

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 (If applicable)

UN number: UN numbers are four-digit numbers that identify hazardous substances.
UN number: Non hazardous material.

UN proper shipping name:
GGVS/ADR classification: Non hazardous material.
GGVE/RID classification: 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.

Transport hazard class(es): Non hazardous material.

Packing group: Non hazardous material.

Environmental hazards: Non hazardous material

Special precautions for user: Non hazardous material.

Transport in bulk according to Annex II. of MARPOL73/78 and the IBC Code: Non hazardous material.

15. REGULATORY INFORMATION (If available)

Regulatory information
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) No 1272/2008 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

Authorisation, TITEL VII	None
Restriction TITEL VII	Not applicable
VOC (1993/13/CE)	Not applicable
	0%

Water pollution class	Not classified
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Chemical safety assessment: Chemical Safety Report (CSR) of Aluminium oxide

16. OTHER INFORMATION

R-phrases:	None
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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 SDS includes information exclusively in regards of the safety aspects of the relevant material.
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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
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considered to be a PBT/vBvB. An exposure assessment and the subsequent step 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

Date of Revision: 09/18/2015

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