



SAFTEY DATA SHEET
INTERNATIONAL AJM CORP.

1. PRODUCT IDENTIFICATION

TRADE NAME: Brown Fused Aluminum Oxide

PRODUCT NUMBER(S): 443-925, 443-926, 443,935, 443-936, 443-937, 443-942, 443-944,
443-946, 443-952, 443-953, 443-954, 443-958, 443-959, 443-960,
443-963, 443-964, 443-965, 443-967, 443-968, 443-969, 443-970,
443-971, 443-972,

CAS NO: 1344-28-1

INTENDED USE: MICRO ABRASIVE BLASTING MEDIA

DATE ISSUED: 2/20/2022

SUPERSEDES: 7/15/2015

PREPARED BY:

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2. HAZARD(S) IDENTIFICATION

- **Classification of the substance or mixture**

GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer via inhalation.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified. 0% of the mixture consists of ingredient(s) of unknown toxicity.

- **Label elements**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:** GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:** titanium dioxide

- **Hazard statements:** H351 Suspected of causing cancer via inhalation.

- **Precautionary statements:**

P280 : Wear protective gloves/protective clothing/eye protection/face protection.



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3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS NO: 1344-28-1

CHEMICAL CHARACTERIZATION:

CAS NO. DESCRIPTION

1344-28-1: ALUMINIUM OXIDE [>95%]

7631-86-9: SILICON DIOXIDE [< 5%]

DANGEROUS COMPONENTS:

13463-67-7: TITANIUM DIOXIDE [< 5%]

4. FIRST AID MEASURES

INHALATION:

REMOVE TO FRESH AIR. GET MEDICAL ATTENTION FOR ANY BREATHING DIFFICULTY

INGESTION:

GIVE SEVERAL GLASSES OF WATER TO DRINK TO DILUTE. IF LARGE AMOUNTS WERE SWALLOWED, GET MEDICAL ADVICE.

SKIN CONTACT:

BRUSH OFF LOOSE PARTICLES FROM SKIN. CLEAN WITH SOAP & WATER. IF SKIN IRRITATION IS EXPERIENCED, CONSULT A DOCTOR.

EYE CONTACT:

IMMEDIATELY REMOVE CONTACT LENSES IF POSSIBLE. WASH THOROUGHLY WITH RUNNING WATER. GET MEDICAL ADVICE IF IRRITATION DEVELOPS.

INFORMATION FOR A DOCTOR:

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED COUGHING
GASTRIC OR INTESTINAL DISORDERS
BREATHING DIFFICULTY



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4. FIRST AID MEASURES (CONTINUED)

DANGER:

DANGER OF IMPAIRED BREATHING.
SUSPECTED OF CAUSING CANCER.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NO FURTHER RELEVANT INFORMATION AVAILABLE

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING AGENTS; USE FIRE FIGHTING MEASURES THAT SUIT THE ENVIRONMENT

FOR SAFTEY REASONS UNSUITABLE EXTINGUISHING AGENTS:

NONE

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

NO FURTHER RELEVANT INFORMATION AVAILABLE.

ADIVCE FOR FIRE FIGHTERS:

PROTECTIVE EQUIPMENT:

WEAR SELF-CONTAINED RESPIRATORY PROTECTIVE DEVICE
WEAR FULLY PROTECTIVE SUIT

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

USE RESPIRATORY PROTECTIVE DEVICE AGAINST THE EFFECTS OF FUMES/DUST/AEROSOL FOR LARGE SPILLS, WEAR PROTECTIVE CLOTHING. AVOID FORMATION OF DUST.
ENSURE ADEQUATE VENTILATION



6. ACCIDENTAL RELEASE MEASURES (CONTINUED)

ENVIORMENTAL PRECAUTIONS:

NO SPECIAL MEASURES REQUIRED

METHODS AND MATERIAL FOR CONTAINMENT:

DISPOSE CONTAMINATED AS WASTE ACCORDING TO ITEM 13, SEND FOR RECOVERY OR DISPOSAL IN SUITABLE RECEPTICALS

REFERNCE TO OTHER SECTIONS:

SEE SECTION 7 FOR INFORMATION ON SAFE HANDLING
SEE SECTION 8 FOR INFORMATION ON PERSONAL PROTECTION EQUIPMENT
SEE SECTION 13 FOR DISPOSAL INFORMATION

7. HANDLING AND STORAGE

HANDLING AND PRECAUTIONS FOR SAFE HANDLING:

PREVENT FORMATION OF DUST
ANY DEPOSIT OF DUST WHICH CANNOT BE AVOIDED MUST BE REGULARLY REMOVED
USE ONLY IN WELL VENTILATED AREAS
AVOID BREATHING DUST
DO NOT DRY CLEAN DUST COVERED OBJECTS AND FLOORS.
WASH THOROUGHLY WITH PLENTY OF WATER.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES:

NO SPECIAL MEASURES REQUIRED

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES REQUIREMENTS TO BE MET BY STOREROOMS & RECEPTACLES :

NO SPECIAL REQUIREMENTS

INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:

STORE AWAY FROM OXIDIZING AGENTS.
STORE AWAY FOOD STUFFS

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES



7. HANDLING AND STORAGE (CONTINUED)

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

STORE RECEPTACLE IN A WELL VENTILATED AREA
PROTECT FROM HUMIDITY AND WATER
THIS PRODUCT IS HYGROSCOPIC

SPECIFIC END USE(S):

NO FURTHER RELEVANT INFORMATION AVAILABLE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEMS:

NO FURTHER DATA; SEE ITEM 7

CONTROL PARAMETERS

COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE:

1344-28-1: ALUMINIUM OXIDE

PEL (USA)	LONG-TERM VALUE: 15*;15** MG/M ³ *TOTAL DUST; **RESPIRATORY FRACTION
REL (USA)	LONG-TERM VALUE: 10* 5** MG/M ³ AS AI*TOTAL DUST; **RESIRABLE/PYRO/POWD./WELDING F.
TLV (USA)	LONG-TERM VALUE 1* MG/M ³ AS AI; *AS RESPIRABLE FRACTION
EL (CANADA)	LONG-TERM VALUE: 1.0 MG/M ³ RESPIRABLE, AS AI
EV (CANADA)	LONG-TERM VALUE: 10MG/M ³ TOTAL DUST
LMPE (MEXICO)	LONG-TERM VALUE: 1* MG/M ³ A4, *FRACCION RESPIRABLE

13463-67-7: TITANIUM DIOXIDE

PEL (USA)	LONG-TERM VALUE: 15* MG/M ³ *TOTAL DUST
REL (USA)	SEE POCKET GUIDE APP. A
TLV (USA)	LONG-TERM VALUE 10 MG/M ³ WITHDRAWN FROM NIC
EL (CANADA)	LONG-TERM VALUE: 10* 3**MG/M ³ *TOTAL DUST; **RESPIRATORY FRACTION; IARC 2B
EV (CANADA)	LONG-TERM VALUE: 10MG/M ³ TOTAL DUST
LMPE (MEXICO)	LONG-TERM VALUE: 10 MG/M ³ A4



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

ADDITIONAL INFORMATION:

THE LISTS THAT WERE VALID DURING THE CREATION WERE USED AS BASIS.

EXPOSURE CONTROLS

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC FOR HANDLING CHEMICALS SHOULD BE FOLLOWED.
KEEP AWAY FROM FOODSTUFFS, BEVERAGES AND FEED.
WASH HANDS BEFORE BREAKS AND AT THE END OF WORK.
AVOID CONTACT WITH EYES.
AVOID CLOSE OR LONG TERM CONTACT WITH THE SKIN.
DO NO INHAILE DUST / SMOKE / MIST.

ENGINEERING CONTROLS:

NO FURTHER RELEVANT INFORMATION AVAILABLE

BREATHING EQUIPMENT:

USE SUITABLE RESPIRATORY PROTECTIVE DEVICE IN CASE OF INSUFFICIENT VENTILATION. FOR SPILLS, RESPIRATORY PROTECTION MAY BE ADVISABLE.

PROTECTION OF HANDS:

WEAR GLOVES FOR THE PROTECTION AGAINST MECHANICAL HAZARDS ACCORDING TO OSHA & NIOSH RULES. GLOVES ARE ADVISED FOR REPEATED OR PROLONGED CONTACT. THE GLOVE MATERIAL HAS TO BE IMPERMEABLE AND RESISTANT TO THE PRODUCT / THE SUBSTANCE / THE PREPARATION.

MATERIAL OF GLOVES:

THE SELECTION OF THE SUITABLE GLOVES DOES NOT ONLY DEPEND ON THE MATERIAL, BUT ALSO ON FURTHER MARKS OF QUALITY AND VARIES FROM MANUFACTURER TO MANUFACTURER

EYE PROTECTION:

SAFTEY GLASSES

BODY PROTECTION:

NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.
PROTECTION MAY BE REQUIRED FOR SPILL.



9. PHYSICAL AND CHEMICAL PROPERTIES

**INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES
GENERAL INFORMATION**

APPEARANCE:

FORM: GRANULATE
COLOR: LIGHT BROWN
DARK BROWN

ODOR: ODORLESS
ODOR THRESHOLD: NOT DETERMINED

PH-VAULE: SLIGHTLY ALKALINE

CHANGE IN CONDITION:

MELTING POINT/MELTING RANGE: 2050°C (3722°F)
BOILING POINT/BOILING RANGE: UNDETERMINED

FLASH POINT: NOT APPLICABLE

FLAMMABILITY (SOLID, GASEOUS): PRODUCT IS NOT FLAMMABLE

AUTO-IGNITION TEMPERATURE: NOT DETERMINED

DECOMPOSITION TEMPERATURE: NOT DETERMINED

DANGER OF EXPLOSION: PRODUCT DOES NOT PRESENT AN EXPLOSION HAZARD.

EXPLOSION LIMITS:

LOWER: NOT DETERMINED
UPPER: NOT DETERMINED

VAPOR PRESSURE: NOT APPLICABLE

DENSITY AT 20°C (68°F): 3.95 G/CM³ (32.963 LBS/GAL)

RELATIVE DENISTY: NOT DETERMINED

VAPOUR DENSITY: NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE



9. PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

SOLUBILITY IN / MISCIBILITY WITH:

WATER: INSOLUBLE

PARTITION COEFFICIENT (N-OCTANOL/WATER): NOT DETERMINED

VISCOSITY:

DYNAMIC: NOT APPLICABLE

KINEMATIC: NOT APPLICABLE

OTHER INFORMATION: NO FURTHER RELEVANT INFORMATION

10. STABILITY AND REACTIVITY

REACTIVITY

CHEMICAL STABILITY

THERMAL DECOMPOSITION / CONDITIONS TO BE AVOIDED :

NO DECOMPOSITION IF USED AND STORED ACCORDING TO SPECIFICATIONS

POSSIBILITY OF HAZARDOUS REACTIONS:

REACTS WITH STRONG ACIDS.

REACTS WITH STRONG OXIDIZING AGENTS.

REACTS WITH STRONG ALKALI.

CONDITIONS TO AVOID: NO FURTHER RELEVANT INFORMATION AVAILABLE.

INCOMPATIBLE MATERIALS: NO FURTHER RELEVANT INFORMATION AVAILABLE.

HAZARDOUS DECOMPOSITION PRODUCTS: TOXIC METAL OXIDE SMOKE



11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:

LD/LC50 VAULES THAT ARE RELEVANT FOR THE CLASSIFICATION: NONE

PRIMARY IRRITANT EFFECT:

ON THE SKIN:	NONE
ON THE EYE:	SLIGHT IRRITANT EFFECT ON EYES.
SENSITIZATION:	NO SENSITIZING EFFECTS KNOWN.
SUBACUTE TO CHRONIC TOXICOLOGY:	SUSPECTED OF CAUSING CANCER VIA INHALATION.

ADDITIONAL TOXICOLOGICAL INFORMATION:

CARINOGENIC CATEGORIES:

NTP (NATIONAL TOXICOLOGY PROGRAM):	SUBSTANCE NOT LISTED
OSHA-CA (OCCUPATIONAL SAFTEY & HEALTH ADMINISTRATION):	SUBSTANCE NOT LISTED

PROBABLE ROUTES OF EXPOSURE:

INHALATION, EYE CONTACT, SKIN CONTACT

ACUTE EFFECTS (ACUTE TOXICITY, IRRITATION & CORROSIVELY):

FROM PRODUCT AS SUPPLIED: NONE

REPEATED DOSE TOXICITY:

SUSPECTED OF CAUSING CANCER. REPEATED OR LONG-TERM INHALATION OF PRODUCT DUST MAY CAUSE PULMONARY DISEASE. MAY CAUSE DAMAGE TO ORGANS THROUGH THROUGH PROLONGED OR REPEATED EXPOSURE.

12. ECOLOGICAL INFORMATION

TOXICITY

AQUATIC TOXICITY: GENERALLY NOT HAZARDOUS FOR WATER

PERSOSTENCE & DEGRADBILY:

INORGANIC PRODUCT, IS NOT ELIMINABLE FROM WATER BY MEANS OF BIOLOGICAL CLEANING PROCESS.



12. ECOLOGICAL INFORMATION (CONTINUED)

BEHAVIOR IN ENVIRONMENTAL SYSTEMS

BIOACCUMULATIVE POTENTIAL : DOES NOT ACCUMULATE IN ORGANISMS

MOBILITY IN SOIL: NO FURTHER RELEVANT INFORMATION AVAILABLE

OTHER ADVERSE EFFECTS: NO FURTHER RELEVANT INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

RECOMMENDATION:

SMALLER QUANTITIES CAN BE DISPOSED OF WITH HOUSEHOLD WASTE. CAN BE REUSED AFTER WASTE PROCESSORS FOR RECYCLING INFORMATION. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES. RESIDUAL MATERIALS SHOULD BE TREATED AS HAZARDOUS.

UNCLEANED PACKAGINGS:

DISPOSAL MUCH BE MADE ACCORDING TO OFFICIAL REGULATIONS.

14. TRANSPORT INFORMATION

UN-NUMBER

DOT, ADR, ADN, IMDG, IATA: NOT REGULATED

UN PROPER SHIPPING NAME:

DOT, ADR, ADN, IMDG, IATA: NOT REGULATED

TRANSPORT HAZARD CLASS(ES)

DOT, ADR, ADN, IMDG, IATA

CLASS: NOT REGULATED

PACKING GROUP:

DOT, ADR, ADN, IMDG, IATA: NOT REGULATED



14. TRANSPORT INFORMATION

ENVIORMENTAL HAZARDS

MARINE POLLUTANT: NO
SPECIAL PRECAUTIONS FROM USER: NOT APPLICABLE

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE :

NOT APPLICABLE

15. REGULATORY INFORMATION

SAFTEY, HEALTH AND ENVIRONMENTAL REGULATIONS REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE.

**UNITED STATES (USA)
SARA**

SECTION 355 (EXTREMELY HAZARDOUS SUBSTANCES):

SUBSTANCE NOT LISTED

SECTION 313 (SPECIFIC TOXIC CHEMICAL LISTINGS):

1344-28-1: ALUMINIUM OXIDE

TSCA (TOXIC SUBSTANCES CONTROL ACT):

SUBSTANCE IS LISTED

PROPOSITION 65 (CALIFORNIA)

CHEMICALS KNOWN TO CAUSE CANCER: 13463-67-7: TITANIUM DIOXIDE

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR FEMALES :

SUBSTANCE NOT LISTED

CHEMICALS KNOWN TO CAUSE REPRODUCTIVE TOXICITY FOR MALES :

SUBSTANCE NOT LISTED

CARCINOGENIC CATAGORIES

EPA (ENVIRONMENTAL PROTECTION AGENCY): SUBSTANCE NOT LISTED

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):

13463-67-7: TITANIUM DIOXIDE

2B



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15. REGULATORY INFORMATION (CONTINUED)

TLV (THRESHOLD LIMIT VALUE ESTABLISHED BY ACGIH)

1344-28-1: ALUMINIUM OXIDE	A4
13463-67-7: TITANIUM OXIDE	A4

NIOSH-CA (NATIONAL INSTITUTE FOR OCCUPATIONAL SAFTEY AND HEALTH)

13463-67-7: TITANIUM OXIDE

STATE RIGHT TO KNOW LISTINGS

SUBSTANCE IS NOT LISTED

CANADIAN SUBSTANCE LISTINGS

CANADIAN DOMESTIC SUBSTANCES LIST (DSL) : SUBSTANCE NOT LISTED

CANADIAN INGREDIENT DISCLOSURE LIST (LIMIT 0.1%) : SUBSTANCE NOT LISTED

CANADIAN INGREDIENT DISCLOSURE LIST (LIMIT 1%) : 1344-28-1 ALUMINUM OXIDE

OTHER REGULATIONS, LIMITATIONS AND PROHIBITIVE REGULATIONS:

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

CHEMICAL SAFTEY ASSESSMENT: A CHEMICAL SAFTEY ASSESSMENT HAS NOT BEEN CARRIED OUT.

16. OTHER INFORMATION

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.

DATE OF PREPARATION: FEBRUARY 20, 2022



16. OTHER INFORMATION [CONTINUED]

ABBREVIATIONS AND ACRONYMS:

ADR: ACCORD EUROPEEN SUR LE TRANSPORT DES MARCHANDISES DANEREUSES PAR ROUTE
(EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS
GOODS BY ROAD)

IMDG: INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS

DOT: US DEPARTMENT OF TRANSPORTATION

IATA: INTERNATIONAL AIR TRANSPORTATION ASSOCIATION

ACGIH: AMERICAN CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENISTS

EINECS: EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

ELINCS: EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES

CAS: CHEMICAL ABSTRACTS SERVICE (DIVISION OF THE AMERICAN CHEMICAL SOCIETY)

HMIS: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (USA)

WHMIS: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CANADA)

LC50: LETHAL CONCENTRATION, 50%

LD50: LETHAL DOSE, 50%

CARC 2: CARCINOGENICITY, HAZARD CATEGORY 2

NOTICE:

THIS SAFTEY DATA SHEET COMPLEMENTS THE TECHNICAL DATA SHEETS BUT DOES NOT
REPLACE THEM. THE INFORMATION IS CONTAINS IS BASED ON OUR PRESENT KNOWLEDGE
OF THE PRODUCT ON THE DATE INDICATED. IT IS GIVEN IN GOOD FATH, USERS SHOULD
BE WARNED ABOUT THE RISKS ASSOCIATED WITH USING THE PRODUCT FOR A DIFFERENT
PURPOSE THAN THAT FOR WHICH IT WAS DEVELOPED, AND PARTICULAR FOR WHICH WE
ARE NOT QUALIFIED TO GIVE ADVISE.

THESE REGULATORY PRESCRIPTIONS ARE PROVIDED WHICH A VIEW TO HELPING USERS
FROM ENSURING THAT THEY ARE NOT REQUIRED TO COMPLY WITH ANY FURTHER
PRESCRIPTIONS OTHER THAN THOSE MENTIONED ABOUT CONCERNING PRODUCT
POSSESSION AND HANDLING FOR WHICH THEY ARE SOLEY RESPONSIBLE.