

1. IDENTIFICATION

Product identifier

Product Name UDT Aggregate Additive (#60, #120, #240)

Other means of identification

SKU(s) 407857, 407856, 407856G, 407852, 407852G, 407853, 407853G

Recommended use of the chemical and restrictions on use

Recommended use Abrasives

Uses advised against Contact manufacturer

Details of the supplier of the safety data sheet

Manufacturer Address

ULTRA DURABLE TECHNOLOGIES

355 6th Ave. North

Waite Park, MN 56387

320-258-2266

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

Additional information

Not hazardous as delivered. Long term inhalation of product dusts formed during use is harmful. There are no other hazards not otherwise classified that have been identified.

0 Percent of the mixture consists of ingredient(s) of unknown toxicity

Label elements

GHS label elements

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

Hazard pictograms Not Regulated

Signal word Not Regulated

Hazard-determining components of labeling None

Hazard statements Not Regulated

Precautionary statements Not Regulated

Hazard description

WHMIS-symbols Not hazardous under WHMIS

Classification system

NFPA ratings (scale 0 - 4)

Health 0

Per OSHA HCS (29 CFR 1910.1200)

Fire 0**Reactivity** 0

HMIS-ratings (scale 0 - 4)

Health 0**Fire** 0**Reactivity** 0**Other hazards****Results of PBT and vPvB assessment****PBT** Not applicable**vPvB** Not applicable**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical characterization:** Substances

CAS No. Description

1344-28-1 Aluminum oxide

4. FIRST AID MEASURES**Description of first aid measures****General information****After inhalation**

Respiration of particulates is unlikely during normal usage. Supply fresh air; consult doctor in case of complaints.

After skin contact

Brush off loose particles from skin. Clean with water and soap. If skin irritation is experienced, consult a doctor.

After eye contact

Rinse eyes with water for several minutes, remove contact lenses (if present) and continue rinsing. If symptoms persist, consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water. Consult a doctor in the event of accidental ingestion. Do not induce vomiting.

Information for doctor**Most important symptoms and effects, both acute and delayed**Coughing
Gastric or intestinal disorders
Breathing difficulty**Danger**

Impaired breathing

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 firefighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents None

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment Wear self-contained respiratory protective device. Wear a fully protective suit.
Additional information No further relevant information available.

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.

Environmental precautions No special measures required.

Methods and material for containment and cleaning up Pick up mechanically. Dispose contaminated material as waste according to Section 13.

Reference 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

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

Storage

Requirements to be met by storerooms and receptacles

No special requirements.

Information about storage in one common storage facility

Store away from oxidizing agents. Store away from foodstuffs.

Further information about storage conditions

Store in cool, dry conditions in well-sealed receptacles. 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 Aluminum oxide

| | |
|----------------------|--|
| PEL (USA) | Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction |
| REL (USA) | Long-term value: 10* 5** mg/m ³ as Al*Total dust**Respirable/pyro powd./welding f. |
| TLV (USA) | Long-term value: 1* mg/m ³ as Al; *as respirable fraction |
| EL (Canada) | Long-term value: 1.0 mg/m ³ respirable, as Al |
| EV (Canada) | Long-term value: 10 mg/m ³ total dust |
| LMPE (Mexico) | Long-term value: 1* mg/m ³ A4, *fracción respirable |

Additional information

The lists that were valid during the creation were used as a basis.

Exposure controls

Personal protective equipment Safety goggles

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed. Keep away from food, 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 not inhale 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.

Eye/Face protection

Wear approved safety goggles.

Protection of hands

Wear gloves for the protection against mechanical hazards according to OSHA and 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.

Body protection

Not required under normal conditions of use. Protection may be required for spills.

Limitation and supervision of exposure into the environment

No special requirements.

Risk management measures

No special requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance

| | |
|----------------|-------------------|
| Form | Granulate |
| Color | White |
| Odor | Odorless |
| Odor threshold | Not determined |
| pH-value | 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 |
| Auto igniting | 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/cm ³ (32.963 lbs./gal) |
| Relative density | Not determined |
| Vapor density | Not applicable |
| Evaporation rate | Not applicable |
| 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 available. |

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 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 values that are relevant for classification None

Primary irritant effect

Skin No irritant effect
Eyes Slight irritant effect on eyes
Sensitization No sensitizing effects known

Additional toxicological information

Carcinogenic categories

NTP (National Toxicology Program)
Substance not listed

OSHA – CA (Occupational Safety & Health Administration)
Substance not listed

Probable Routes of Exposure

Ingestion. Inhalation. Eye contact. Skin contact.

Acute effects (acute toxicity, irritation and corrosivity)

From product as supplied; None

Repeated Dose Toxicity

Repeated or long-term inhalation of product dusts may cause pulmonary disease.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Generally, not hazardous for water

Persistence and degradability

Inorganic product; is not eliminable from water by means of biological cleaning processes.

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

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of the 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.

Recommendation

Smaller quantities can be disposed of with household waste. Can be reused after reprocessing.
Disposal must be made according to official regulations.

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| 14. TRANSPORT INFORMATION |
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|---------------------------|---------------|
| UN-Number | |
| DOT, ADR, ADN, IMDG, IATA | Not Regulated |
| DOT, ADR, ADN, IMDG, IATA | Not Regulated |
| Class | Not Regulated |
| DOT, ADR, IMDG, IATA | Not Regulated |

| | |
|---|----------------|
| Environmental hazards | |
| Marine pollutant | No |
| Special precautions for user | Not applicable |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable |
| UN "Model Regulation" | |

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|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

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

SARA

| | |
|--|----------------------|
| Section 355 (extremely hazardous substances) | substance not listed |
| Section 313 (specific toxic chemical listings) | substance is listed |
| TSCA (Toxic Substances Control Act) | substance is listed |

Proposition 65 (California)

| | |
|--|----------------------|
| Chemicals known to cause cancer | substance not listed |
| Chemicals known to cause reproductive toxicity for females | substance not listed |
| Chemicals known to cause reproductive toxicity for males | substance not listed |
| Chemicals known to cause developmental toxicity | substance not listed |

Carcinogenic categories

| | |
|--|--------------------------|
| EPA (Environmental Protection Agency) | substance not listed |
| IARC (International Agency for Research on Cancer) | substance not listed |
| TLV (Threshold Limit Value established by ACGIH) | 1344-28-1 aluminum oxide |
| NIOSH-Ca | substance not listed |
| State Right to Know Listings | substance not listed |

Canadian substance listings

| | |
|--|-------------------------|
| Canadian Domestic Substances List (DSL) | substance is listed |
| Canadian Ingredient Disclosure list (limit 0.1%) | substance is not listed |
| Canadian Ingredient Disclosure list (limit 1%) | substance is listed |

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 Product Regulations.

United States (USA)

This product is not a "hazardous chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Revision Date 04-Jan-2023
Revision Note

Abbreviations and acronyms

| | |
|-----------------------|---|
| ADR | Accord européen sur le transport des marchandises dangereuses 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 Transport Association |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| EINECS | European Inventory of Existing Commercial Chemical |
| Substances CAS | Chemical Abstracts Service (division of the American Chemical Society) |
| NFPA | National Fire Protection Association (USA) |
| HMIS | Hazardous Materials Identification System (USA) |
| WHMIS | Workplace Hazardous Materials Information System (Canada) |
| LC50 | Lethal concentration, 50 percent |
| LD50 | Lethal dose, 50 percent |

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.

End of Safety Data Sheet