

---

## Section 1: *Identification*

---

- **Product identifier**

- **Product Name:** UDT Aggregate (#60, #120, #240, #320)

- **Other means of identification:**  
**SKU(s)** 407856, 407852, 407853, 407854

- **Recommended use and restriction on use**

- **Recommended use:** No information available

- **Restrictions on use:** No information available

- **Details of the supplier of the Safety Data Sheet**

- **Manufacturer Address:**

ULTRA DURABLE TECHNOLOGIES  
1415 5<sup>th</sup> Street North  
St. Cloud, MN 56303  
320-258-2266

- **Emergency telephone number:**

- **Emergency Telephone** Chemtrec 1-800-424-9300

---

## Section 2: *Hazard(s) 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

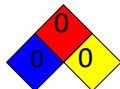
- **Precautionary statements:** Not Regulated

- **Hazard description**

- **WHMIS-symbols:** Not hazardous under WHMIS

- **Classification system**

- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

· **HMS-ratings (scale 0 - 4)**

|            |   |
|------------|---|
| HEALTH     | 0 |
| FIRE       | 0 |
| REACTIVITY | 0 |

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

Section 3: *Composition/information on Ingredients*

- **Chemical characterization:** Substances
- **CAS No. Description**  
1344-28-1 Aluminum oxide

Section 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.
- 

## Section 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 fully protective suit.
  - **Additional information:** No further relevant information available.
- 

## Section 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 item 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.
- 

## Section 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.

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

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**



- **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.

Section 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<sup>3</sup> (32.963 lbs/gal)

· **Relative density:** Not determined

· **Vapour 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.

Section 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
- 

## Section 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.
- 

## Section 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
- 

## Section 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.

Section 14: *Transport Information*

- **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"**

Section 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 (National Institute for Occupational Safety and Health): 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.

---

Section 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 / last revision:** 6/1/2015

· **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