SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

| BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU |

GHS Product Identifier

| BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM G52E, G52E P, G52E RK, G82, G82P, GW, GW VIT, HBD, HC, K5, LBD, RF, DCF, LT, LTR, C ART, C AR RK, C PR RK, LT C AT, LT C ART, LT C AR RK, LT C PT, LT C PR T, XA, SK, EB, PB, REF/P, PC, TP RK, WP, BFA, G52 |

DURALUM C ABRT, C PBRT, LT C ABRT, LT C PBRT, C A BR RK, C PBR RK, LT C ABR RK, LT CPBR RK, LT, GW |

1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Identified Use(s): Consult the supplier.
Uses Advised Against: Users are recommended to seek further advice.

1.3 Details Of The Supplier Of The Safety Data Sheet

| Company Identification | Accurate Thermal Sys |
| Address | 4104 Sylon Blvd |
| Telephone | 1-609-326-3190 |
| E-Mail (Competent Person) | info@accuthermal.com |

REACH Registration Company Information

| Company Identification | Accurate Thermal Systems |
| Address | 4104 Sylon Blvd |
| Postal Code/Location | Hainesport, NJ 08036 |
| Telephone | 609-326-3190 |
| Fax | 609-479-5124 |

Further information obtained from:

Telephone: (expert)
E-Mail: (expert)

1.4 Emergency Telephone Number – ChemTel

(800)255-3924 (USA/Canada), 813-248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification Of The Substance Or Mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)

The product is not classified as hazardous according to the Globally Harmonized System (GHS).
The product is not classified as hazardous according to OSHA GHS regulation within the United States.
The product is not classified as hazardous according to the CLP regulation.

Additional information:

Product has less than 0.1% inhalable dust containing known and/or suspect carcinogens per established guidelines, and is therefore not classifiable as a carcinogen.
There are no other hazards not otherwise classified that have been identified.
0% of the mixture consists of component(s) of unknown toxicity.

2.2 Label Elements

2.2.1 Label Elements According to Regulation (EC) No. 1272/2008 (CLP)

This product does not have a classification according to the CLP regulation.
The product is not classified as hazardous according to OSHA GHS regulations within the United States.

| Hazard | Not regulated |
| Signal | Not regulated |
| Pictogram(s) | Word(s) |
| Hazard-determining components of labelling | None |
| Hazard | Not Regulated |
| Statement(s) | |
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>Hazard Pictogram(s) and Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>&gt;90</td>
<td>1344-28-1</td>
<td>215-691-6</td>
<td>NA</td>
<td>None</td>
</tr>
<tr>
<td>Silica, fused</td>
<td>&lt;5</td>
<td>60676-86-0</td>
<td>262-373-8</td>
<td>NA</td>
<td>None</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>&lt;5</td>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>NA</td>
<td>None</td>
</tr>
<tr>
<td>Diiron trioxide / iron (III) oxide</td>
<td>&lt;5</td>
<td>1309-37-1</td>
<td>215-168-2</td>
<td>NA</td>
<td>None</td>
</tr>
</tbody>
</table>

Dangerous Components (Alternative Classifications):

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>Hazard Pictogram(s) and Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>&lt;5</td>
<td>13463-67-7</td>
<td>3.6/2 H351</td>
</tr>
</tbody>
</table>

3.3 Additional Information: Non-classification as a carcinogen is based on non-inhalable form of product. IARC listings for titanium dioxide note that substance must be respirable.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures
General Information: No special measures required.
After Inhalation: Supply fresh air; consult doctor in case of complaints.
After Skin Contact: Brush off loose particles from skin. Wash with soap and water. If skin irritation is experienced, consult a doctor.
After Eye Contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After Swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

4.2 Most Important Symptoms And Effects, Both Acute And Delayed Hazards
Slight irritant effect on eyes.

No further relevant information available.
SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media
Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.
Unsuitable Extinguishing Media: None.

5.2 Special Hazards Arising From The Substance Or Mixture
No further relevant information available.

5.3 Advice for Fire-Fighters
Wear self-contained respiratory protective device. Wear fully protective suit.

Additional Information
No further relevant information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment And Emergency Procedures
Avoid formation of dust. For large spills, wear protective clothing. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation.

6.2 Environmental Precautions
No special measures required.

6.3 Methods And Material For Containment And Cleaning Up
Pick up mechanically. Send for recovery or disposal in suitable receptacles. Dispose contaminated material as waste according to item 13.

6.4 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

7.1 Precautions For Safe Handling
Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Prevent formation of dust.
No special measures required.

7.2 Conditions For Safe Storage, Including Any Incompatibilities:
No special requirements.

Information About Fire – and explosion protection:

7.3 Specific End Use(s):
No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control Parameters
## Safety data sheet

### Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
</table>
| Aluminum Oxide                          | 1344-28-1  | Long-term value: 15"; 15"" mg/m³  
*Total dust; **Respirable fraction |          | As Al; as AI | Long-term value: 10" 5"" mg/m³  
Respirable/ pyro powd.; welding f. |          | Long-term value: 1.0 mg/m³  
Respirable, as AI | Long-term value: 10 mg/m³  
Total dust |          | See Quartz listing |
| Silica, fused                           | 60676-86-0 | PEL (USA) | REL (USA) | TLV (USA) | EV (Canada) | See Pocket Guide App. A |
|                                        |            | Long-term value: 15" mg/m³  
*Total dust | See Pocket Guide App. A | Long-term value: 10 mg/m³  
Withdrawn from NIC | Long-term value: 10 mg/m³  
Total dust | See Pocket Guide App. A |
| Titanium Dioxide                        | 13463-67-7 | PEL (USA) | REL (USA) | TLV (USA) | EL (Canada) | EV (Canada) |
|                                        |            | Long-term value: 15" 5""mg/m³  
Fume; Rouge: **Total dust, ***Respirable fraction | See Pocket Guide App. A | Long-term value: 10 mg/m³  
Total dust | Long-term value: 10 mg/m³  
Total dust | See Pocket Guide App. A |
| Diron trioxide / iron (III) oxide      | 1309-37-1  | PEL (USA) | REL (USA) | TLV (USA) | EL (Canada) | EV (Canada) |
|                                        |            | Long-term value: 15" 5""mg/m³  
Fume; Rouge: **Total dust, ***Respirable fraction | Long-term value: 5 mg/m³  
Dust & fume, as Fe | Long-term value: 5" mg/m³  
*Respirable fraction | Long-term value: 5" 10"" 3"" mg/m³  
Dust & fume; Rouge: **Total dust; ***Respirable fraction | Long-term value: 5" 10"" mg/m³  
Respirable, including Rouge: **Total dust |

### Additional information:
The lists valid during the making were used as basis.

## 8.2 Exposure Controls
### Personal protective equipment:
#### General protective and hygienic measures:

8.2 Exposure Controls
8.2.2 Personal Protective Equipment:

<table>
<thead>
<tr>
<th>General protective and hygienic measures:</th>
<th>The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Immediately remove all soiled and contaminated clothing. Keep away from foodstuffs, beverages and feed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory Protection</td>
<td>Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.</td>
</tr>
<tr>
<td>Eye Protection</td>
<td>Wear safety glasses.</td>
</tr>
<tr>
<td>Protection of Hands</td>
<td>Wear protective gloves.</td>
</tr>
<tr>
<td>Body Protection</td>
<td>Not required under normal conditions of use. Protection may be required for spills.</td>
</tr>
<tr>
<td>Limitation and</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid granular product</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Melting Point (°C) / Freezing Point (°C)</td>
<td>Not available / Not available</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>No Data</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>Not available</td>
</tr>
<tr>
<td>Temperature (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient (N-Octanol/Water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold (ppm)</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive Limit Ranges</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>4892 ° F / 2700 ° C</td>
</tr>
<tr>
<td>Odor Threshold (ppm)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity (mPa.s)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

9.2 Other Information

Volatile Organic Chemical (VOC) Content – Not Available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical Stability

10.3 Possibility of Hazardous Reactions

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

10.4 Conditions To Avoid

No further relevant information available.

10.5 Incompatible Materials

No further relevant information available.

10.6 Hazardous Decomposition Product(s)

Toxic metal oxide smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50: &gt; 20000 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50: &gt;10000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h: &gt; 6.82 mg/l (rat)</td>
</tr>
</tbody>
</table>

Primary Irritant Effect:

- On the skin: Slight irritant effect on skin and mucous membranes.
- On the eye: Slight irritant effect on eyes.
- Sensitisation: No sensitizing effects known.
- Additional toxicological information:
  - The substance is not subject to classification according to the latest version of the EU lists.
  - CMR effects (carcinogenity, mutagenicity, and toxicity for reproduction):
    - Product is in non-inhalable form and is nonclassifiable as a carcinogen.
SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Aquatic toxicity: No data

12.2 Persistence and Degradability
Inorganic product, is not eliminable from water by means of biological cleaning processes.

12.3 Bioaccumulative Potential
Does not accumulate in organisms.

12.4 Mobility in Soil
Generally not hazardous for water. Due to consistence and the low water solubility of the product a bioavailability is not probable. Due to available data on eliminability/ decomposition and bioaccumulation potential a prolonged damage of the environment is unlikely.

12.5 Results of PBT and vPvB Assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other Adverse Effects
No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods Recommendation
Contact manufacturer for recycling information. Contact waste processors for recycling information. On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.

Uncleaned Packaging: Recommendation:
Packaging may be reused or recycled after cleaning. Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Hazard Class(es): Not applicable.

Land Transport (ADR/RID) (c)(d)
UN Number None
Proper Shipping Name Not classified as dangerous for transport.
Transport Hazard Class(es) None
Packing Group None
Hazard Label(s) None
Environmental Hazards None
Special Precautions For User None

Land Transport (Within USA) (b)(d)
UN Number None
Proper Shipping Name Not classified as dangerous for transport.
Transport Hazard Class(es) None
Packing Group None
Hazard Label(s) None
Environmental Hazards None
Special Precautions For User None

Sea Transport (IMDG) (c)
UN Number None
Proper Shipping Name Not classified as dangerous for transport.
Transport Hazard Class(es) None
Packing Group None
Marine Pollutant None
Special Precautions For User None

Air Transport (ICAO/IATA) (c) (d)
UN Number None
Proper Shipping Name Not classified as dangerous for transport.
Transport Hazard Class(es) None
Packing Group None
Marine Pollutant None
Special Precautions For User None

(b) ORM-D may be applicable within the USA for package sizes less than 30kg.
(c)– Consult with transport provider.
(d)– Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture.
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.

Additional information:
- The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.
- The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
- In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products. While the majority
of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from the potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the SDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstract Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Sources
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