According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

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

1.1 BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST,

Product Identifier DURALUM, DURABLU

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 PRT, C PR RK, LT C AT, LT C ART, LT C AR

Revision: 03.03.2016

GHS Product Identifier

RK, LT C PT, LT C PRT, XA, SK, EB, PB, REF/P, PC, TP RK, WP,BFA, G52

DURABLU 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

Chemical Name Mixture (Brown Aluminum Oxide)

Trade Name See Product Identifier

CAS No. Mixture EINECS No. Mixture

REACH Registration No. 01-2119529248-35-0043

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
Address

Accurate Thermal Sys
4104 Sylon Blvd
Hainesport, NJ 08036

1-609-326-3190

E-Mail (Competent Person) info@accuthermal.com REACH Registration Company Information

Address 4104 Sylon Blvd
Postal Code/Location Hainesport, NJ 08036
Telephone 609-326-3190
Fax 609-479-5124

Further information obtained from:

Telephone

Telephone

Printing date: 03.03.2016

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)

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP),

Printing date: 03.03.2016 and US GHS Revision: 03.03.2016

BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU (See Page 1)

NFPA ratings (scale 0 - 4)



Health = 0 Fire = 0 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 0 Reactivity = 0

HMIS Long Term Health Hazard

None of the ingredients are listed.

Substances 2.3 Other Hazards

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

assessment

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.		ctogram(s) and Hazard Statement(s)
Aluminum Oxide	>90	1344-28-1	215-691-6	NA	None	Substance with a Community workplace exposure limit
Silica, fused	<5	60676-86-0	262-373-8	NA	None	Substance with a Community workplace exposure limit
Titanium Dioxide	<5	13463-67-7	236-675-5	NA	None	Substance with a Community workplace exposure limit
Diiron trioxide / iron (III) oxide	<5	1309-37-1	215-168-2	NA	None	Substance with a Community workplace exposure limit

Dangerous Components (Alternative Classifications):

Hazardous Ingredient(s)	%W/W	CAS No.	Hazard Pictogram(s) and Hazard Statement(s)
Titanium Dioxide	<5	13463-67-7	3.6/2 H351

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

Slight irritant effect on eyes.

And Delayed

Hazards No further relevant information available.

Safety data sheetAccording to 1907/2006/EC (REACH), 1272/2008/EC (CLP),

Printing date: 03.03.2016 Revision: 03.03.2016 and US GHS BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU (See Page 1)

Indication Of The Immediate Medical

Attention And Special

No further relevant information available.

Treatment Needed

SECTION 5: FIRE-FIGHTING MEASURES

5.1	Extinguishing Media	
	Suitable Extinguishing	Use fire extinguishing methods suitable to surrounding conditions.
	Media	
	Unsuitable Extinguishing	None.
	Media	
5.2	Special Hazards Arising	No further relevant information available.
	From The Substance Or	
	Mixture	
5.3	Advice for Fire-Fighters	Wear self-contained respiratory protective device. Wear fully protective suit.
0.0	7.00.00 .0	violation contained respirately protective device. Violatically protective call.
	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 requied.
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

7.3	Specific End Use(s)	No further relevant information available.
	about storage conditions:	Notic.
	Facility: Further information	None.
	Common Storage	
	Storage in One	with acids.
	and Receptacles: Information About	Store away from oxidizing agents. Store away from foodstuffs. Do not store together
	Requirements to be Met by Storerooms	No special requirements.
7.2		torage, Including Any Incompatibilities:
	Fire – and explosion protection	
	Information About	No special measures required.
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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Safety data sheet
According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

Printing date: 03.03.2016 BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU (See Page 1)

Revision: 03.03.2016

Ingredients with limit v		•	the workplace:
		PEL (USA)	Long-term value: 15*; 15** mg/m³ *Total dust; ** Respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m ³ As Al *Total dust **Respirable/pyro powd./welding f.
Aluminum Oxide	1344-28-1	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 Al
		EV (Canada)	Long-term value: 10 mg/m ³ total dust
		PEL (USA)	See Quartz listing
Silica, fused	60676-86-0	TLV (USA)	TLV withdrawn
Silica, iuseu	00070-00-0	EV (Canada)	Long-term value: 0,1 mg/m ³ respirable
	13463-67-7	PEL (USA)	Long-term value: 15* mg/m ³ *total dust
		REL (USA)	See Pocket Guide App. A
Titanium Dioxide		TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
		EL (Canada)	Long-term value: 10* 3** mg/m³ *total dust; **respirable fraction; IARC 2B
		EV (Canada)	Long-term value: 10 mg/m ³ total dust
		PEL (USA)	Long-term value: 10* 15** 5***mg/m ³ *Fume; Rouge: **Total dust, ***respirable
	1309-37-1	REL (USA)	Long-term value: 5 mg/m ³ Dust & fume, as Fe
Diiron trioxide / iron (III) oxide		TLV (USA)	Long-term value: 5* mg/m ³ *as respirable fraction
		EL (Canada)	Short-term value: 10** mg/m ³ Long-term value: 5* 10*** 3**** mg/m ³ *dust & fume ** fume; Rouge: ***total dust ****resp.
		EV (Canada)	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 C	ontrols
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Personal protective equipment:

Gene	ral protective and	hygienic measures:		
8.2	Exposure Controls			
8.2.2	Personal Protec	tive Equipment:		
	General protective and hygienic measures:	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.		
	Respiratory Protection	Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.		
	Eye Protection	Wear safety glasses.		
	Protection of Hands	Wear protective gloves.		
	Body Protection	Not required under normal conditions of use. Protection may be required for spills.		
	Limitation and	No further relevant information available.		

Safety data sheet
According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

Printing date: 03.03.2016 Revision: 03.03.2016 BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU (See Page 1)

supervision of exposure into the environmen	nt
Risk	No further relevant information available. See Section 7 for additional
Management	information.
Measures	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information On Basic	Physical And Chemica	Il Properties	
	Appearance	Solid granular product	Color	Black or Green
	Odor	Odorless	Odor Threshold (ppm)	Not available
	Melting Point (°C) / Freezing Point (°C)	Not available	Boiling Point/Boiling Range (°C)	Not available
	Flash Point (°C)	No Data	Explosive Limit Ranges	Not available
	Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	4892 ° F / 2700 ° C
	Explosive Properties	None	Oxidizing Properties	Not available
	Flammability (Solid, Gas)	Not available	Ph (Value)	Not available
	Evaporation Rate	N/A	Vapor Pressure (mm Hg)	Not available
	Vapor Density (Air=1)	N/A	Density (g/ml)	Not available
	Solubility (Water)	Insoluble	Solubility (Other)	Not available
	Partition Coefficient (N- Octanol/Water)	Not available	Viscosity (mPa.s)	Not available
9.2	Other Information	Volatile Organic Chemic	al (VOC) Content – Not Available.	

SECTION 10: STABILITY AND REACTIVITY

10.1 10.2	Reactivity Chemical Stability	
	Thermal Decomposition / conditions to be avoided:	No decomposition if used according to specifications.
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 Inf	11.1 Information on Toxicological Effects		
LD/LC50 va	lues relevant for cl	lassification:	
13463-67-7	titanium dioxide		
Oral	LD50	> 20000 mg/kg (rat)	
Dermal	LD50	>10000 mg/kg (rabbit)	
Inhalative	LC50/4 h	> 6,82 mg/l (rat)	
Pri	imary Irritant Effec	t:	
On	the skin:	Slight irritant effect on skin and mucous membranes.	
On the eye:		Slight irritant effect on eyes.	
Sensitisation:		No sensitizing effects known.	
Ad	Iditional toxicologi	ical The substance is not subject to classification according to the	
information:		latest version of the EU lists.	
CMR effects (carcinogenity,		genity, Product is in non-inhalable form and is nonclassifiable as a	
mutagenicity, and toxicity for reproduction):		xicity for carcinogen.	

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP),

and US GHS BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU (See Page 1)

SECTION 12: ECOLOGICAL INFORMATION

12.1 **Toxicity** No data

Aquatic toxicity: No further relevant information available.

12.2 **Persistence and Degradability** Inorganic product, is not eliminable from water by means of

biological cleaning processes.

Does not accumulate in organisms. 12.3 **Bioaccumulative Potential** 12.4 **Mobility in Soil** No further relevant information available.

Additional ecological information:

General notes:

Generally not hazardous for water. Due to consistence and the

Revision: 03.03.2016

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.

Results of PBT and vPvB 12.5

Assessment

Printing date: 03.03.2016

Other Adverse Effects 12.6

PBT: Not applicable. vPvB: Not applicable.

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

Land Transport (ADR/RID) (c)(d)		Land Transport (Within USA) (b)(d)	
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.	Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None	Transport Hazard Class(es)	None
Packing Group	None	Packing Group	None
Hazard Label(s)	None	Hazard Label(s)	None
Environmental Hazards	None	Environmental Hazards	None
Special Precautions For User	None	Special Precautions For User	None
Sea Transport (IMDG) (c)		Air Transport (ICAO/IATA) (c) (d)	
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.	Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None	Transport Hazard Class(es)	None
Packing Group	None	Packing Group	None
Marine Pollutant	None	Marine Pollutant	None
Special Precautions For User	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

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

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP),

USA		
SARA		
Section 355 (extremely hazardous substances)	None of the ingredients are listed.	
SARA 313 (Specific toxic chemical listings)	1344-28-1 aluminum oxide	
TSCA (Toxic Substance Control Act) Proposition 65 (California):	All ingredients are listed.	
Chemicals known to cause cancer:	References to chemical components listed below based on unbound respirable particles and are a generally applicable to product as supplied. 13463-67-7 titanium dioxide	
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.	
Carcinogenic Categories		
EPA (Environmental Protection Agency)	None of the ingredients are listed.	
IARC (International Agency for Research on Cancer)	60676-86-0 silica, fused 13463-67-7 titanium dioxide 1309-37-1 diiron trioxide / iron (III) oxide	
TLV (Threshold Limit Value established by ACGIH)	1344-28-1 aluminium oxide 13463-67-7 titanium dioxide 1309-37-1 diiron trioxide / iron (III) oxide	
MAK (German Maximum Workplace Concentration)	1344-28-1 aluminium oxide 13463-67-7 titanium dioxide	
NIOSH-Ca (National Institute for Occupational Safety and Health)	13463-67-7 titanium dioxide	
Canada		
Canadian Domestic Substances List (DSL)	All ingredients are listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients are listed.	
Canada Ingredient Disclosure list (limit 1%)	1344-28-1 aluminium oxide 60676-86-0 silica, fused 1309-37-1 diiron trioxide / iron (III) oxide	

15.2	Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out.

None of the ingredients are listed.

Substances of very high concern (SVHC)

according to REACH, Article 57

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. 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

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

BLASTITE, BLITZBLAST, DURATRED, FASTBLAST, NIAGARA BLAST, EXOBLAST, DURALUM, DURABLU (See Page 1) 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.

Revision: 03.03.2016

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:

Printing date: 03.03.2016

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

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com