SAFETY DATA SHEETS

This SDS packet was issued with item: 072987915

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

072987402 072987550 072987683 072987816 072987824 072987832 072987840 072987857 072987865 072987873 072987881 072987899 072987907



MS872721

INITIAL IQ - POWDERS MATERIAL SAFETY DATA SHEET

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SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

DISTRIBUTOR

GC AMERICA INC. 3737 West 127th St. Alsip, Illinois, 60803 Telephone: 708-597-0900 Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T. Transportation Emergency No. 800-424-9300

COMMON NAME:INITIAL IQ - POWDERS (MC, Zr,); ingots, correction powder, fluo crystals, frame modifierCHEMICAL NAME:N.A.PRODUCT USE:Dental Porcelain System

The following information is provided with regard to the toxicity and hazards the pure components present in this product. SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Aluminum oxide	1344-28-1	PEL= 15, $5 mg/m^3$	N.E.	10-17
		Total dust, respirable fraction		
		TLV=10mg/m ³		
Cristobalite	14464-46-1	$REL = 0.05 \text{ mg/m}^3$	N.E.	55-70
		Respirable dust		
		$TLV = 0.025 R mg/m^3$		

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	>999°C (>1830°F)	SPECIFIC GRAVITY:	N.E.
VAPOR PRESSURE:	N.E.	MELTING POINT:	N.E.
VAPOR DENSITY:	N.E.	EVAPORATION RATE:	N.A.
SOLUBILITY IN WATER:	not soluble	ODOR THRESHOLD:	N.E.
COEFFICIENT OF OIL/W	ATER DISTRIBUTION: N.E.	APPEARANCE AND ODOR:	Odorless powder

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT:N.A.FLAMMABLE LIMITS:N.A.EXTINGUISHING MEDIA:CO2, extinguishing powder, water spray, alcohol resistant foam.SPECIAL FIRE FIGHTING PROCEDURES:N.A.UNUSUAL FIRE AND EXPLOSION HAZARDS:N.A.HAZARDOUS COMBUSTION PRODUCTS:N.A.

SECTION 5 - REACTIVITY DATA

STABILITY: POLYMERIZATION:

IZATION: Will Not Occur

CONDITIONS TO AVOID: N.A. INCOMPATIBILITY (Materials to Avoid): N.A.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.A.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

Stable 🖂

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		Х						
TERATOGENIC AFFECTS		Х						
REPRODUCTIVE TOXIN		Х						
CARCINOGENICITY	X				Х	Х		
SENSITIZER		Х						

Unstable

Will Occur



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INITIAL IQ - POWDERS

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION - continued

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ROUTES OF ENTRY: Inhalation 🛛 Skin 🗌

Ingestion 🛛

HEALTH HAZARD (Acute and Chronic): SIGNS AND SYMPTOMS OF OVEREXPOSURE: CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: EMERGENCY FIRST AID PROCEDURES:

INHALATION: Supply fresh air. Consult physician if irritation develops.*EYE CONTACT*: Rinse eye with water for several minutes. If irritation persists, consult physician.*SKIN CONTACT*: Wash with soap and water. Consult physician if irritation develops.*INGESTION*: Consult physician if irritation develops.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Absorb with inert material, scrape up and discard.
 WASTE DISPOSAL METHOD: Dispose of material in accordance with local, state and federal regulations.
 STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Product should be handled so as to minimize the amount of airborne dust. Store in sealed containers in cool, dry area.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Where there is potential for inhalation exposure to product dust, mist or aerosols in excess of exposure limits, wear NIOSH/MSHA approved respiratory protection.

VENTILATION: Local Exhaust Yes Mechanical: N.E.

N.E.

Special: N.E.

Other: N.E.

PROTECTIVE GLOVES: Disposable vinyl gloves recommended. **EYE PROTECTION:** Safety glasses recommended. **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** N.A. **WORK/HYGIENIC PRACTICE:** Observe good hygienic practices.

SECTION 9 - PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR.

DATE: 19 June 2007

N.A. = NOT APPLICABLE N.E. = NOT ESTABLISHED

The information herein is given in good faith but no warranty expressed or implied is made.

	••••••		• • • • • • • • • • • • • • • • • • • •	
		NFPA		
FIRE – 0	TOXICITY -0	REACTIVITY – 0	SPECIAL -	



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Version US-EN-Rev 1

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1 Identification
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- · Product identifier
- · Trade name: GC Initial™ IQ Zr Effect Ingots

 Relevant identified uses of the substance or mixture and uses advised against Dental material

The product is intended for professional use.

To avoid risks for humans and environment obtain instructions.

- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: GC America Inc.

3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

· Information department: Regulatory Affairs

Emergency telephone number:

During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

· Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- NFPA ratings (scale 0 4)



HEALTHImage: Constraint of the sector with the sector

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Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

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Trade name: GC Initial™ IQ Zr Effect Ingots

· Other hazards

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components: Void
- Additional information:

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

4 First-aid measures

- · Description of first aid measures
- General information: No special measures required.

If symptoms persist consult doctor.

• After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Rinse with warm water.

If symptoms persist consult doctor.

· After eye contact:

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.

If symptoms persist consult doctor.

- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: Water with full jet

• Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- · Advice for firefighters
- **Protective equipment:** Wear self-contained respiratory protective device.

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· Additional information

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Remove persons from danger area.
- Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground/soil. In case of seepage into the ground inform responsible authorities.
- Methods and material for containment and cleaning up: Pick up mechanically.

Dispose of the collected material according to regulations.

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** Observe instructions for use.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

- Information about protection against explosions and fires: Dust can combine with air to form an explosive mixture.
- · Storage:
- Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Observe instructions for use / storage.
- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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. Do not inhale dust / smoke / mist.

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Wash hands before breaks and at the end of work.

- Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands: Protective gloves
- · 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

Information on basic physical and	chemical properties
General Information Appearance:	
Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 999 °C (> 1830 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble.

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		(Contd. of page
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	100.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability Stable at ambient temperature.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International	Agency for	Research on	Cancer)
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None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Carcinogenic categories' legend:

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IARC Group 1: The agent is carcinogenic to humans.
IARC Group 2A: The agent is probably carcinogenic to humans.
IARC Group 2B: The agent is possibly carcinogenic to humans.
IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.
IARC Group 4: The agent is probably not carcinogenic to humans.
NTP K: Known to be human carcinogen.
NTP R: Reasonably anticipated to be human carcinogen.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Void	
· Packing group		
DOT, ADR, IMDG, IATA	Void	

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

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture • SARA (Superfund Amendments and Reauthorization Act)

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

glass, oxide, chemicals

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

· Department issuing SDS: Regulatory Affairs

Contact: Regulatory Affairs Telephone No. +1 (708) 597-0900 sds@gcamerica.com
Date of preparation / last revision 03/13/2015 / Abbreviations and acronyms: GHS: Globally Harmonized System of Classification and Labelling of Chemicals HCS: Hazard Communication Standard (USA) MSDS: Material Safety Data Sheet SDS: Safety Data Sheet ADN: Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways)

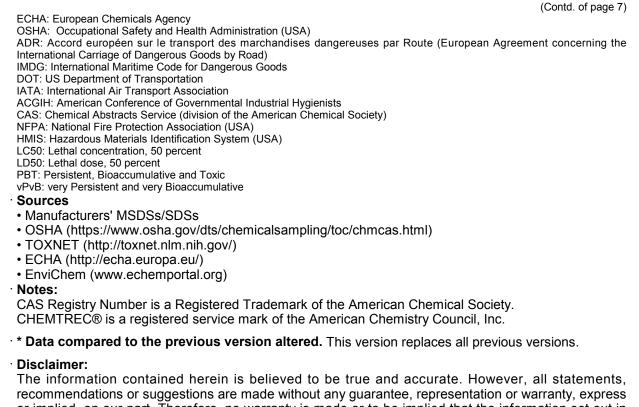
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