

## SAFETY DATA SHEET

Product Name Product Code	AF - / AF			
	CF4/CF4-B/CF4	-C/CF4-D		
Relevant identified uses of the substa	ance or mixture and u	ses advised against		
ecommended use		terial for forming mold	s and cores.	
Details of the supplier of the safety da				
Manufacturer		cs Manufacturing, LLC.		
	7800 South Nogal	· · · · · · · · · · · · · · · · · · ·		
Telephone (General)	Tucson, AZ 85756 520.547.0850	,		
Emergency Telephone Number	520.547.0050			
	800.554.9964 - H	azardous Materials Sur	oport Center	
	800.424.9300 - C	HEMTREC (Spill related	d emergencies)	
SECTION 2 — HAZARD(S) IDI	ENTIFICATION			
United States (US)				
According to OSHA 29 CFR 1910.1200 HCS	S			
Classification of the substance or mix	ture			
OSHA HCS 2012	Oxidizing solids (C			
	Eye irritation (Cate	• / ·	nd is the present of A-	anced Coramics Manufacturing
Label Components	me formula is pro	prietary information a	nu is the property of Adv	anced Ceramics Manufacturing.
aser components	Oxidizer			
Other Dangers	C. Mailed			
OSHA HCS 2012				
	$\sim$		2	
	H272 May intensify f	ire; oxidizer Eye Conta	act – Direct contact may o	cause irritation.
	H319 Causes serious	s eye irritation.		
	P210 Keep away fror	n heat		
		ay from clothing/comb		
		aution to avoid mixing	with combustibles	
	P264 Wash skin thor	roughly after handling		
	P280 Wear protective	e gloves/eye protection	n/face protection	
			Isly with water for severa	I minutes. Remove contact lenses, if present
	easy to do. Continue			
			edical advice/attention	sistant foam to extinguish
			approved waste disposal p	
			***************************************	
SECTION 3 — COMPOSITION	<b>INFORMATION O</b>	N INGREDIENTS		
		N INGREDIENTS luble core material)	i	
hemical Characterization			TLV (mg/m <sup>3</sup> )	PEL (mg/m³)
hemical Characterization Aaterials:	Mixture (water-sol	luble core material)		PEL (mg/m³) NE
hemical Characterization <b>4aterials:</b> NO3	Mixture (water-sol 	luble core material) WT%	TLV (mg/m³)	
hemical Characterization <b>Materials:</b> INO3 IaNO3	Mixture (water-sol <u>Identifiers</u> 7757-79-1 7631-99-4	luble core material) WT% 20%-50% 50%-80%	<u>TLV (mg/m³)</u> NE	NE
hemical Characterization <b>4aterials:</b> INO3 IaNO3 IaNO2	Mixture (water-sol <u>Identifiers</u> 7757-79-1	luble core material) WT% 20%-50%	TLV (mg/m³) NE NE	NE NE
Chemical Characterization Materials: (NO3 JaNO3 JaNO2	Mixture (water-sol <u>Identifiers</u> 7757-79-1 7631-99-4	luble core material) WT% 20%-50% 50%-80% 0%-65%	TLV (mg/m³) NE NE NE	NE NE NE NE
hemical Characterization <b>faterials:</b> NO3 IaNO3 IaNO2	Mixture (water-sol <u>Identifiers</u> 7757-79-1 7631-99-4 7632-00-0 (Т) - Total	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30%	TLV (mg/m³) NE NE NE NE NE	NE NE
Chemical Characterization Materials: INO3 IaNO3 IaNO2 Proprietary inorganic powder SECTION 4 — FIRST-AID ME/	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 ( T ) - Total ASURES	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable	TLV (mg/m³) NE NE NE NE NE	NE NE NE ( NE ) - Not Established
Chemical Characterization Materials: INO3 IaNO3 IaNO2 Proprietary inorganic powder SECTION 4 — FIRST-AID MEA General advice	Mixture (water-sol <u>Identifiers</u> 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dang	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j	TLV (mg/m <sup>3</sup> ) NE NE NE ( I ) - Inhalable physician. Show this SDS	NE NE NE ( NE ) - Not Established to the physician.
Chemical Characterization Materials: (NO3 IaNO3 IaNO2 Proprietary inorganic powder SECTION 4 — FIRST-AID MEA General advice Contact with Eyes	Mixture (water-sol <u>Identifiers</u> 7757-79-1 7631-99-4 7632-00-0 (Т) - Total ASURES Move out of dang Flush eyes with ru	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at lea	TLV (mg/m³) NE NE NE ( I ) - Inhalable physician. Show this SDS st 15 minutes — lift uppe	NE NE NE ( NE ) - Not Established to the physician. er and lower eyelids. Consult a physician
Chemical Characterization Materials: (NO3 IaNO3 IaNO2 Proprietary inorganic powder SECTION 4 — FIRST-AID ME/ General advice Contact with Eyes Contact with Skin	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dang Flush eyes with ru Wash skin thoroug	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at lea ghly with mild soap an	TLV (mg/m³) NE NE NE (I) - Inhalable physician. Show this SDS st 15 minutes — lift uppe d plenty of water. Consul	NE NE NE ( NE ) - Not Established to the physician. r and lower eyelids. Consult a physician t a physician.
hemical Characterization <b>faterials:</b> NO3 IaNO3 IaNO2 roprietary inorganic powder SECTION 4 — FIRST-AID ME/ General advice iontact with Eyes iontact with Skin	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dang Flush eyes with ru Wash skin thoroug	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at lea ghly with mild soap an	TLV (mg/m³) NE NE NE (I) - Inhalable physician. Show this SDS st 15 minutes — lift uppe d plenty of water. Consul	NE NE NE ( NE ) - Not Established to the physician. er and lower eyelids. Consult a physician
Chemical Characterization Materials: (NO3 VaNO3 VaNO2 Proprietary inorganic powder SECTION 4 — FIRST-AID MEA General advice Contact with Eyes Contact with Skin nhalation	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dang Flush eyes with ru Wash skin thoroug Move the injured p	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at lea ghly with mild soap an person to fresh air. If i	TLV (mg/m <sup>3</sup> ) NE NE NE ( I ) - Inhalable physician. Show this SDS st 15 minutes — lift upper d plenty of water. Consul not breathing, initiate pul	NE NE NE ( NE ) - Not Established to the physician. r and lower eyelids. Consult a physician t a physician.
Chemical Characterization Materials: KNO3 VaNO3 VaNO2 Proprietary inorganic powder	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dang Flush eyes with ru Wash skin thoroug Move the injured p Never give anythin	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at lease ghly with mild soap an person to fresh air. If in ng by mouth to an unc	TLV (mg/m <sup>3</sup> ) NE NE NE ( I ) - Inhalable physician. Show this SDS st 15 minutes — lift upper d plenty of water. Consul not breathing, initiate pul	NE NE NE ( NE ) - Not Established to the physician. er and lower eyelids. Consult a physician t a physician. monary resuscitation. Get medical attention.
Chemical Characterization Materials: (NO3 VaNO3 VaNO2 Proprietary inorganic powder SECTION 4 — FIRST-AID MEA General advice Contact with Eyes Contact with Skin inhalation ingestion	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dang Flush eyes with ru Wash skin thoroug Move the injured p Never give anythin s, both acute and dela	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at lease ghly with mild soap an person to fresh air. If in ng by mouth to an unc	TLV (mg/m <sup>3</sup> ) NE NE NE (I) - Inhalable physician. Show this SDS st 15 minutes — lift uppe d plenty of water. Consul not breathing, initiate pul	NE NE NE ( NE ) - Not Established to the physician. er and lower eyelids. Consult a physician t a physician. monary resuscitation. Get medical attention.
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Chemical Characterization  Materials:  INO3 IaNO3 IaNO2 Proprietary inorganic powder  SECTION 4 — FIRST-AID MEA General advice Contact with Eyes Contact with Skin Inhalation Ingestion Most important symptoms and effects Indication of any immediate medical advice Indication In	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dange Flush eyes with ru Wash skin thoroug Move the injured Never give anythin s, both acute and dela Refer to section 1 attention and special No data available.	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at leas ghly with mild soap an person to fresh air. If i ng by mouth to an unc syed 1 - Toxicological Inform treatment needed	TLV (mg/m <sup>3</sup> ) NE NE NE (I) - Inhalable physician. Show this SDS st 15 minutes — lift uppe d plenty of water. Consul not breathing, initiate pul	NE NE NE ( NE ) - Not Established to the physician. er and lower eyelids. Consult a physician t a physician. monary resuscitation. Get medical attention.
hemical Characterization  Aaterials: NO3 IaNO3 IaNO2 roprietary inorganic powder  SECTION 4 — FIRST-AID MEA General advice ontact with Eyes ontact with Skin Inhalation Ingestion Aost important symptoms and effects	Mixture (water-sol Identifiers 7757-79-1 7631-99-4 7632-00-0 (T) - Total ASURES Move out of dange Flush eyes with ru Wash skin thoroug Move the injured Never give anythin s, both acute and dela Refer to section 1 attention and special No data available.	luble core material) WT% 20%-50% 50%-80% 0%-65% 0.1-30% ( R ) - Respirable erous area. Consult a j unning water for at leas ghly with mild soap an person to fresh air. If i ng by mouth to an unc syed 1 - Toxicological Inform treatment needed	TLV (mg/m <sup>3</sup> ) NE NE NE (I) - Inhalable physician. Show this SDS st 15 minutes — lift uppe d plenty of water. Consul not breathing, initiate pul	NE NE NE ( NE ) - Not Established to the physician. er and lower eyelids. Consult a physician t a physician. monary resuscitation. Get medical attention.

Special hazards arising from the substa	nce or mixture	
Unusual Fire and Explosion Hazards	Explodes when heated above 1000°F / 537°C. Nitrogen oxides (Nox), potassium oxides, sodium oxides, sulpher	
Advice for Firefighters	oxides may form Wear self-contained breathing apparatus for firefighting if necessary	
Further information	Use water spray for cool unopened containers.	
SECTION 6 — ACCIDENTAL RE	., .	
Personal precautions, protective equipment	nent and emergency procedures	
Personal Precautions	Avoid dust formation, Avoid breathing vapors, mist or gas, Ensure an adequate ventilation	
Emergency Procedures Environmental Precautions	Ensure an adequate ventilation	
	Do not let product enter drains	
Methods and material for containment a	and cleaning up	
Containment/Clean-up Measures	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local	
SECTION 7 — HANDLING AND	regulations (see section 13). Keep in suitable, closed containers for disposal.  STORAGE	
Precautions to be taken in Handling and	I Storing	
	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may	
	result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before	
Handling	additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from	
	sources of ignition - No smoking.Keep away from heat and sources of ignition. For precautions see section 2.	
Conditions for safe storage, including a		
Storage	Keep container tightly closed in a dry and well-ventilated place. hygroscopic Store under inert gas. Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials Keep away from	
Specific End Lice	sources of heat, sparks and flame.	
Specific End Use	Not indicated.	
SECTION 8 — EXPOSURE CON	TROLS/PERSONAL PROTECTION	
Control Parameters		
PNOS	TLV-TWA <sub>ACGIH</sub> = No exposure limit value known. TLV-TWA <sub>ACGIH</sub> = No exposure limit value known.	
Exposure Control		
Engineering Measures/Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
Personal Protective Equipment Pictograms		
Respiratory Protection	Use of a Class NIOSH N95 respirator where dust is generated is recommended. Follow the OSHA respirator regulations found in 29 CFR 1910.134.	
Eye / Face Protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.	
Other Clothing & Equipment	Work clothing or coveralls to minimize skin contact.	
General Industrial Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Impervious clothing, The type of protectiv equipment must be selected according to the concentration and amount of the dangerous substance at the specif workplace.	
Ventilation	Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
Environmental Exposure Controls	Do not let product enter drains.	
SECTION 9 — PHYSICAL AND		
Information on Physical and Chemical F	Properties	
Appearance:	White powder	
Smell:	no detectable odor	
Odor threshold:		
pH: Molting point / fragging point:	5.5 - 8.0 at 50 g/l at 20 °C (68 °F) 170-270°C (actimated)	
Melting point / freezing point:	170-270°C (estimated)	
Initial boiling point and boiling range:	not available	
Flash point: Evaporation rate: Flammability (solid, gas): Upper / lower flammability or explosive limits: Vapor pressure:	noncombustible not available not available not available not available	

Vapor density:	not available
Relative density:	2.17 g/cc
Solubility:	soluble in water
Partition coefficient n-octanol/water:	not available
Auto-ignition temperature:	not applicable
Decomposition temperature:	See reactivity
viscosity:	not applicable
Explosive properties:	See Section 5 and 10.
Dxidizing properties:	Oxidizer. See section 2.
SECTION 10 - STABILITY	AND REACTIVITY
Reactivity	The product is not reactive under normal conditions of use and storage. When heated to decomposition oxides of sulfur will be released. Do not allow molten material to contact magnesium.
Chemical stability	The product is stable under normal conditions of use and storage.
Possibility of hazardous reactions	Refer to Reactivity
Conditions to avoid	Fusion of mixtures of metal cyanides, including lead thiocyanate, with metal chlorates, perchlorates, nitrates or nitrites causes a violent explosion. Addition of one solid component (even as a residue in small amount) to another molten component is also highly dangerous. Heat
Incompatible materials	Strong acids, Strong reducing agents, Powdered metals, Organic materials, Alkali metals, Alkaline earth metals, Cyanides, thiocyanates. Explodes when mixed with cyanides, boron phosphide, sodium hypophosphite or powdered metals + water. DO NOT add any other material to CF4.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions Nitrogen oxides (NOx), Sodium oxides, potassium oxides, sulpher oxides, magnesium oxides
TSCA Listing	All ingredients are on the TSCA inventory, or exempt.
SECTION 11 - TOXICOLOG	YINFORMATION
Information on toxicological effects SECTION 12 - ECOLOGICAL INFORMATION	No toxicological effects acute and / or chronic known as a result of exposure to the product. Contact with eyes may cause mechanical irritation. The frequent and prolonged contact with skin may cause irritation and defatting.
Toxicity	Toxicity (KNO3) Ecology - Water: Mild water pollutant (surface water). Ground water pollutant. Maximum concentration in drinking water: 50mg/l (nitrate). Not harmful to fishes. Slightly harmful to invertebrates. May cause eutrophication. Slightly harmful to plankton. LC50 fishes 1 162 mg/l (96 h; Pisces; Lethal) LC50 other aquatic organisms 1 39 mg/l (96 h; Daphnia magna) EC50 other aquatic organisms 1 200 - 1000 mg/l (Plankton; Nocivity test) LC50 fish 2 1378 mg/l (Poecilia reticulata) LC50 other aquatic organisms 2 490 mg/l (48 h; Daphnia magna) TLM fish 1 3000 mg/l (96 h; Lepomis macrochirus) TLM fish 2 162 mg/l (96 h; Gambusia affinis) Threshold limit other aquatic organisms 1 39 mg/l (96 h; Daphnia magna) Threshold limit other aquatic organisms 2 490 mg/l (48 h; Daphnia magna) Threshold limit other aquatic organisms 2 490 mg/l (48 h; Daphnia magna) Threshold limit other aquatic organisms 1 39 mg/l (96 h; Daphnia magna) Persistence and degradability: Unavailable Mobility in soil: This product is water soluble and so may spread in water systems. Results of PBT and vPvB assessment: Unavailable Other adverse effects: Harmful to aquatic organisms.None. Toxicity (NaNO3) LC50 - Gambusia affinis (mosquito fish) - 6650 mg/l - 96hr EC50 - Daphnia magna (water flea) - 6000 mg/l - 24hr Persistence and degradability: No data available Bioaccumulative potential: No data available

Toxicity	<ul> <li>12.2 Persistence and degradability</li> <li>The methods for determining biodegradability are not applicable to inorganic substances.</li> <li>12.3 Bioaccumulative potential no data available</li> <li>12.4 Mobility in soil no data available</li> <li>12.5 Results of PBT and vPvB assessment</li> <li>PBT/vPvB assessment not available as chemical safety assessment not required/not conducted</li> <li>12.6 Other adverse effects</li> <li>An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.</li> <li>Very toxic to aquatic life.NaNO2</li> <li>LC50 - Oncorhynchus mykiss (rainbow trout) - 0.94 - 1.92</li> <li>mg/l - 96.0 h</li> <li>mortality NOEC - Oncorhynchus mykiss (rainbow trout) - 0.54 mg/l - 96.0 h</li> <li>EC50 - Daphnia magna (Water flea) - 12.5 mg/l - 48 h</li> <li>Persistence and degradability</li> <li>The methods for determining biodegradability are not applicable to inorganic substances.</li> <li>Bioaccumulative potential no data available</li> <li>Results of PBT and vPvB assessment</li> <li>PBT/vPvB assessment not available as chemical safety assessment not required/not conducted</li> <li>Other adverse effects</li> <li>An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.</li> <li>Very toxic to aquatic life.</li> </ul>
Persistence and degradability	Information not available.
Bioaccumulative potential	Information not available.
Mobility in Soil Other adverse effects	Information not available. Information not available.
Other Information	Discharge into the environment must be avoided.
SECTION 13 - DISPOSAL CONSIDERATIONS	
Waste treatment methods SECTION 14 - TRANSPORT INFORMATION	solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Hazardous. Oxidizer
UN Number	1487
UN Proper shipping name	Potassium Nitrate and Sodium Nitrite Mixture
Transport hazard class(es)	5.1
Packing group	
Environmental hazards	Oxidizer
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Unknown
SECTION 15 - REGULATORY INFORMATION	Pennsylvania Right To Know Components:
Safety, health and environmental regulations / legislation specific for the substance or mixture	Chemical name: Nitric acid, potassium salt CAS number: 7757-79-1 New Jersey Right To Know Components Common name: POTASSIUM NITRATE CAS number: 7757-79-1 SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 SARA 311/312 Hazards Reactivity hazard SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: Sodium Nitrate CAS-7631-99-4 Pennsylvania Right To Know Components Chemical name: Nitric acid, sodium salt CAS number: 7631-99-4 Massachusetts Right To Know Components Sodium Nitrate CAS-7631-99-4 Massachusetts Right To Know Components Sodium Nitrate CAS-7631-99-4 New Jersey Right To Know Components Sodium Nitrate CAS-7631-99-4 New Jersey Right To Know Components This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.
Chemical Safety Assessment	Not available.



Last Revision Date	12/12/2023
Preparation Date	9/9/2021
Key literature references and sources for data:	
	<ul> <li>29 CFR 1910.1200(f) and Appendix C of 29 CFR 1910.1200 (and subsequent amendments and adjustments)</li> <li>OSHA GHS (and subsequent amendments and adjustments)</li> <li>OSHA Hazard Communication Standard (HCS) (and subsequent amendments and adjustments)</li> <li>1910 Subpart G - Occupational Health and Environmental Control (and subsequent amendments and adjustments and adjustments)</li> <li>Safety data sheet of the supplier of the product</li> </ul>
Acronyms:	
ACGIH:	American Conference of Governmental Industrial Hygienists
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service
CFR:	Code of Federal Regulations
CLP:	Classification, Labeling and Packaging
EINECS:	European Inventory of Existing Chemical Substances
GHS:	Globally Harmonized System
HCS:	Hazard Communication Standard
IATA:	International Air Transport Association
IMDG Code:	International Maritime Code for Dangerous Goods
OSHA:	Occupational Safety and Health Administration
PBT:	Persistent, Bioaccumulative, Toxic
PEL:	Permissible Exposure Limit
PNOS:	Particles Not Otherwise Specified
REACH:	Registration, Evaluation, Authorization and Restriction of Chemicals
RID:	Regulation on the Inland transport of Dangerous goods by rail
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act
TWA:	Time-Weighted Average
vPvB:	very Persistent, very Bioaccumulative
Disclaimer/Statement of Liability	The information contained herein is believed to be accurate. However, it is provided solely for the customer's consideration, investigation and verification. Advanced Ceramics Manufacturing hereby specifically disclaims any and all warranties, express or implied, regarding the accuracy and completeness of such information, and makes no representations with respect thereto.