

SAFETY DATA SHEET Pro Series CA Red

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878 and US OSHA HCS 2015 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 501901 **Product Name:** Pro Series CA Red 1.2 Relevant identified uses of the substance or mixture and uses advised against: 1.3 Details of the Supplier of the Safety Data Sheet: **Company Name:** GranQuartz 455 Satellite Blvd United States of America Suwanee, GA 30024 Web site address: www.granquartz.com 1.4 **Emergency telephone number: Emergency Contact:** CHEMTREC (800)262-8200 International (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2 Specific Target Organ Toxicity (single exposure), Category 3 2.2 Label Elements: **GHS Signal Word:** Warning Hazard-determining components of labelling: 2-Propenoic acid, 2-cyano-, ethyl ester **GHS Hazard Phrases:** H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. **GHS Precautionary Phrases:** P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection. **GHS Response Phrases:** P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P332+313 - If skin irritation occurs, get medical advice/attention. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention. **GHS Storage and Disposal Phrases:** P403+233 - Store container tightly closed in well-ventilated place. P501 - Dispose of contents/container to hazardous or special waste facility in accordance to local and national regulations.

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SAFETY DATA SHEET Pro Series CA Red

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

		Sectio	on 3. Composition	/Informatio	n on Ingred	lients
CAS	#	Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
708	5-85-0	2-Propenoic acid, 2- 01-2119527766-29	-cyano-, ethyl ester	80.0 -100.0 %	230-391-5 607-236-00-9	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336
			Section 4. Fi	rst Aid Mea	sures	
.1		-	dCall a POISON CENTER	or doctor/physicia	n if you feel unw	ell.
	Meası In Cas		Remove victim to fresh air still feeling unwell seek me	•	est in a postition	comfortable for breathing.I
	Conta		drop will generate enough the adhesive has been re	acrylates give off heat to cause a l moved from the sl ps and encourage roll lips apart. Do	heat on solidific ourn. Burns shou kin. If lips are acc maximum wetti not try to pull the	ation. In rare cases a large uld be treated normally afte cidentally stuck together ng and pressure from saliv e lips apart with direct
	In Cas Conta	se of Eye ct:	easy to do. Continure rins	ing. If the eye is b		ntact lenses, if present and elease eyelashes with warr
			water by covering with we periods of weeping which debonding is complete, us solid particles of cyanoacr	will help to debon sually within 1-3 d	d the adhesive. ays. Medical adv	Keep eye covered until vice should be sought in ca
	In Cas	se of Ingestion:	periods of weeping which debonding is complete, us	will help to debon sually within 1-3 d ylate trapped beh sages are not obs making it almost i	d the adhesive. ays. Medical adv ind the eyelid ca structed. The pro mpossible to sw	Keep eye covered until vice should be sought in ca ause abrasive damage oduct will polymerise allow. Saliva will slowly
1.2	Impor and E	se of Ingestion: tant Symptoms ffects, Both and Delayed:	periods of weeping which debonding is complete, us solid particles of cyanoacr Ensure that breathing pas immediately in the mouth	will help to debon sually within 1-3 d ylate trapped beh sages are not obs making it almost i duct from the mou tis	d the adhesive. ays. Medical adv ind the eyelid ca structed. The pro mpossible to sw uth over several	Keep eye covered until vice should be sought in ca ause abrasive damage oduct will polymerise allow. Saliva will slowly hours
.2	Impor and E Acute Indica immed attent	tant Symptoms ffects, Both	periods of weeping which debonding is complete, us solid particles of cyanoacr Ensure that breathing pas immediately in the mouth separate the solidified pro EYE: irritation, conjunctivit SKIN: redness, inflamation	will help to debon sually within 1-3 d ylate trapped beh sages are not obs making it almost i duct from the mou tis	d the adhesive. ays. Medical adv ind the eyelid ca structed. The pro mpossible to sw uth over several	Keep eye covered until vice should be sought in ca ause abrasive damage oduct will polymerise allow. Saliva will slowly hours
	Impor and E Acute Indica immed attent	tant Symptoms ffects, Both and Delayed: ition of any diate medical ion and special	periods of weeping which debonding is complete, us solid particles of cyanoacr Ensure that breathing pas immediately in the mouth separate the solidified pro EYE: irritation, conjunctivi SKIN: redness, inflamation RESPIRATORY: Irritation	will help to debon sually within 1-3 d ylate trapped beh sages are not obs making it almost i duct from the mou tis	d the adhesive. ays. Medical adv ind the eyelid ca structed. The pro mpossible to sw uth over several	Keep eye covered until vice should be sought in ca ause abrasive damage oduct will polymerise allow. Saliva will slowly hours

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SAFETY DATA SHEET

Pro Series CA Red

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Dry powder, foam, carbon dioxide, or fine water spray
	Media:	
	Unsuitable	Water Jet
	Extinguishing Media:	
5.2	Flammable Properties	Carbon oxides.
	and Hazards:	
	Hazardous Combustion	${f n}$ Trace amounts of toxic fumes may be released on incineration. Hazardous combustionj
	Products:	products include oxides of carbon, oxides of nitrogen, irritating organic vapors.
	Flash Pt:	~ 85.00 C (185.0 F) Method Used: Closed Cup
	Explosive Limits:	LEL: No data UEL: No data.
	Autoignition Pt:	480.00 C (896.0 F)
5.3	Fire Fighting	Firefighters should wear positive pressure self-contained breathing apparatus (SCBA)
	Instructions:	and suitable protective clothing.
	Ş	Section 6. Accidental Release Measures
6.1	Protective Precautions	, Ensure adequate ventilation. Wear protective gloves, protective clothing, eye protection,
	Protective Equipment	and face protection. Avoid skin and
	and Emergency	
	Procedures:	
6.2	Environmental	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
	Precautions:	
6.3	Methods and Material	Do not use clothes for mopping up. Flood contaminated area with water to complete
	For Containment and	polymerisation and scrape off floor. Cured material can be disposed of as non-hazardous waste.
	Cleaning Up:	non-nazardous waste.
		Section 7. Handling and Storage
7.1	Precautions To Be	Avoid breathing dust, fumes, gas, mist, vapoours, or spray. Use only outdoors or in a
	Taken in Handling:	well-ventilated area. Low level ventilation is recommended when using large volumes.
		Use of dispensing equipment is recommended to minimize the risk of skin
		or eye contact. Wash hands thoroughly after handling.
7.2	Precautions To Be	For optimum shelf life store in original containers under refrigerated conditions at 2
	Taken in Storing:	degrees Celsius to 8 degrees Celsius. Store locked up in tightly closed containers.
	Other Precautions:	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
	Sectio	on 8. Exposure Controls/Personal Protection

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
7085-85-0 ethyl ester	2-Propenoic acid, 2-cyano-,	ACGIH TLV	TLV: 0.2 ppm	
		Australia	TWA: 9 mg/m3 (2 ppm)	
		Belgium OEL	TWA: 1.04 mg/m3 (0.2 ppm)	
		Switzerland OEL	TWA: 9 mg/m3 (2 ppm)	
		Germany MAK/TRK	TWA: 9 mg/m3 (2 ppm)	
		Denmark OEL	TWA: 10 mg/m3 (2 ppm) STEL: 20 mg/m3 (4 ppm)	
		Spain OEL	TWA: 0.2 ppm	
		Finland OEL	TWA: 1 mg/m3 (0.2 ppm)	



Pro Series CA Red

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

7085-85-0 2-Propenoic acid, 2-cyano-,	France VL	TWA: 5 mg/m3
ethyl ester		
(continued)		
	Hungary OEL	TWA: 5 mg/m3
		STEL: 20 mg/m3
	Ireland OEL	TWA: 0.2 ppm
	NIOSH	CEIL: 5 mg/m3 (10m)
	Netherlands OEL	TWA: 1 mg/m3
		STEL: 10 mg/m3
	OSHA PELs	TWA: 5 mg/m3
	Poland	TWA: 1 mg/m3
		STEL: 2 mg/m3
	Sweden OEL	TWA: 10 mg/m3 (2 ppm)
		STEL: 20 mg/m3 (4 ppm) (15 min)
	Britain EH40	STEL: 1.5 mg/m3 (0.3 ppm)
Derived No-Effect Levels / Pr	edicted No Effect Cond	centrations:
7085-85-0 2-Propenoic acid,	2-cyano-, ethyl ester	
DNEL Worker	Value	Remarks
Long-term - Inhalation, local effects	9.250 mg/m ³	DNEL (Derived No Effect Level)
Long-term - Inhalation, systemic effects	9.250 mg/m ³	DNEL (Derived No Effect Level)
DNEL Consumer	Value	Remarks

8.2	Exposure Controls:	
8.2.1	Engineering Controls	Provide adequate ventilation in area of use. Do NOT use this product in an enclosed or
	(Ventilation etc.):	poorly ventilated area. Local exhaust ventilation is normally required when handling or
		using this product to keep airborne powder below the nationally authorized limits. If

9.250

9.250

Value

mg/m³

mg/m³

DNEL (Derived No Effect Level)

DNEL (Derived No Effect Level)

no data available: testing technically not feasible.

no data available: testing technically not feasible. no data available: testing technically not feasible.

no data available: testing technically not feasible.

Remarks

ventilation alone cannot control exposure, respiratory protection must be used. 8.2.2 Personal protection equipment:

Long-term - Inhalation, local effects

aquatic, sediment, marine water

predators, secondary poisoning

aquatic, freshwater

aquatic, STP

PNEC

Long-term - Inhalation, systemic effects

.2	Personal protection eq	juipment:	
	Personal Protective		
	Equipment Symbols:		
	Eye Protection:	Safety glasses with side-shields conforming to EN166.	
	Protective Gloves:	Nitrile gloves should be used to handle this product. Do not use gloves made of PVC, cotton or nylon. Gloves must be inspected prior to use. Handle with gloves. 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 Protective	Impervious clothing.	
	Clothing:		
	Respiratory Equipment (Specify Type):	t Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.	
		If the respirator is the sole means of protection, use a full-face supplied air respirator.	

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SAFETY DATA SHEET Pro Series CA Red

		Use respirators and components tested and approved under appropriate government
	5	standards such as NIOSH (US) or CEN (EU).
8.2.3		Ensure adequate ventilation. Do not let product enter drains. Prevent further leakage or
	•	spillage if safe to do so.
	•	Good general ventilation should be sufficient to control airborne levels. General industrial
	f	nygiene practice.
	Sec	tion 9. Physical and Chemical Properties
9.1	Information on Basic Phy	ysical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	Transparent.
		characteristic odor.
	pH:	Not available
	Melting Point:	~ -34.4 C (~ -30.00 F)
	Boiling Point:	~ 214.00 C (417.2 F)
	Flash Pt:	~ 85.00 C (185.0 F) Method Used: Closed Cup
	Evaporation Rate:	Not available
	Saturated Vapor	No data.
	Concentration:	No dete eveileble
	Flammability (solid, gas)): No data available. LEL: No data UEL: No data.
	Explosive Limits: Vapor Pressure (vs. Air o	
	mm Hg):	0r < -0.2111ra at 20.00 (00.0 r)
	nin ng).	No data.
	Vapor Density (vs. Air =	
	Specific Gravity (Water =	
	Density:	1.040 G/CM3
	Solubility in Water:	0.00002 at 20.0 C (68.0 F)
	Octanol/Water Partition	1.42
	Coefficient:	
	Autoignition Pt:	480.00 C (896.0 F)
	Decomposition	No data.
	Temperature:	
	Viscosity:	Not available
	Explosive Properties:	No data available.
	Oxidizing Properties:	No data available.
9.2	Other Information	
9.2.1	Information with regard	to physical hazard classes
	Information with regard	to
	primary physical hazard	
9.2.2	Other safety characteris	tics

Pro Series CA Red

		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.2	Stability:	Unstable [] Stable [X]
10.3	Conditions To Avoid -	Spontaneous polymerization will occur in the presence of moisture and other basic
	Hazardous Reactions:	materials.
	Possibility of	Will occur [] Will not occur [X]
	Hazardous Reactions:	
10.4	Conditions To Avoid -	Heat, flames and sparks. Stable under normal conditions of storage and use. This
	Instability:	material should not be exposed to excessive moisture, humidity, or basic materials.
10.5	Incompatibility -	Reducing agents, Water, Amines, Alcohols, Alkali metals, Oxidizing agents.
	Materials To Avoid:	
10.6	Hazardous	Oxides of carbon and oxides of nitrogen
	Decomposition or	
	Byproducts:	
		Section 11. Toxicological Information
11.1	Information on	Acute toxicity.
	Toxicological Effects:	ORAL: LD50(oral,rat) > 5000 mg/kg bw (OECD 401)
		DERMAL: LD50(dermal,rabbit) > 2000mg/kg bw (OCED 402)
		INHHALATION: In dry atmosphere with <50% humidity, vapours may irritate the eyes
		and respiratory system. Prolonged exposure to high concentrations of vapours may lead
		to chronic effects in sensitive individuals.
	Irritation or Corrosion:	
		Irritating to eyes. In a dry atmosphere of less than 50% relative humidity, vapours may cause irritation and lachrymatory effect.
	Sensitization:	Due to polymerisation at the skin surface, allergic reaction is not considered possible.
		The polymerized material is not able to penetrate into the epidermis.
	Chronic Toxicological	STOT (Single Exposure) - Ethyl 2-cyanoacrylate may cause irritation for skin, eyes and
	Effects:	respiratory system.
		STOT (Repeated Exposure) - Ethyl 2-cyanoacrylate is not toxic by repeated abroption.
	Carcinogenicity/Other	This product is non-carcinogenic and not toxic by reproduction.
	Information:	IARC: No component of this product present at levels greater than or equal to 0.1% is
		identified as probable, possible or confirmed human carcinogen by IARC.
		ACGIH: No component of this product present at levels greater than or equal to 0.1% is
		identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is
		identified as a known or anticipated carcinogen by NTP.
		OSHA: No component of this product present at levels greater than or equal to 0.1% is
		identified as a carcinogen or potential carcinogen by OSHA.
		Because of the reduced exposure to monomer and the reported negative test result in
		various mutagenicity tests. ethyl-2-cyanoacrylate cannot be classified as a mutagen.
		Aspiration Hazard - No Data Available
Carci	nogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

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SAFETY DATA SHEET

Pro Series CA Red

		Section 12. Ecological Information
12.1	Toxicity:	Low ecotoxicity
12.2	Persistence and Degradability:	Not Applicable (the test compound would polymerize immediately on contact with water or the moisture in the soil
12.3	Bioaccumulative Potential:	Not Applicable - In the presence of moisture, ethyl-2-cyanoacrylate polymerises within seconds.
12.4	Mobility in Soil:	Not Applicable (the test compound would polymerize immediately on contact with water or moisture in soil.
12.5	Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
12.6	Other adverse effects:	No data available.
		Section 13. Disposal Considerations
13.1	Waste Disposal Method:	PRODUCT DISPOSAL Cured Adhesive: Dispose of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions. Dispose of in accordance with local and national regulations. Polymerize by adding slowly to water (10:1) Contribution of this product to waste is very insignificant in comparison to article in which it is used.
		DISPOSAL OF UNLEANED PACKAGES After use, tubes, cartons, and bottles containing residual product should be disposed of as chemically contaminate waste in an authorized legal landfill site or incinerated. Disposal must be made according to official regulations.
	European Waste	- WASTE IDENTIFICATION : waste and sealants containing organic solvents and other dangerous substances. 080409
	Catelog No.	
		Section 14. Transport Information
D(UI 14.1 UI Ha 14.2 IM UI	OT Hazard Class: N/NA Number: LAND TRANSPORT (E DR/RID Shipping Name: N Number: azard Class:	 ne: Not regulated as a hazardous material. uropean ADR/RID): Not regulated as a hazardous material. (IMDG/IMO):



Pro Series CA REd

Page: 8 of 9

				Supe	ersedes Revision: 05/10/2022
14.3 AIR TR	RANSPORT (ICA	O/IATA):			
ICAO/IAT	A Shipping Nam	e: Liquid, (Cyanoacrylate Not regulated as a haz Inner and outer packag when transported by Pa	ardous material. jing should meet re	•	acking Instruction 906
		-			
UN Numb Hazard C			Packing G	-	9
Hazaru C	1855.	Section 15. Regu			9
				lation	
CAS #		ents and Reauthorization Ac ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7085-85-0	_	, 2-cyano-, ethyl ester	No	No	Yes-Cat. N106 (100%
		3 Toxic Release Inventory			
] Yes [X] No] Yes [X] No	Flammable (gases, ac Oxidizer (liquid, solid Self-reactive Pyrophoric (liquid or s Pyrophoric gas Self-heating Organic peroxide Corrosive to metal Gas under pressure (c In contact with water e Combustible Dust (Physical) Hazard Not	olid) compressed gas)	[] Yes [X] No Gern [] Yes [X] No Carc [] Yes [X] No Repr [X] Yes [] No Spec [] Yes [X] No Aspin [] Yes [X] No Simp [] Yes [X] No (Hea	Corrosion or Irritation bus eye damage or ey irratory or Skin Sensit in cell mutagenicity inogenicity oductive toxicity ific target organ toxic ration Hazard le Asphyxiant Ith) Hazard Not Other State Lists entory: Active/Exem	ye irritation
CAS # 7085-85-0		ponents (Chemical Name)	International Reg	Julatory Lists	Eull (D)
7003-03-0		Section 16. Ot			
Revision Dat	e:	06/23/2022			
Hazard Ratin	g System: HMIS:	HEALTH*2FLAMMABILITY2PHYSICAL0PPE	Flammability Health NFPA:	2 Instability 0 Special Hazard	1
		No data available.			
This Product		The choice information day			mente of the surplust surpl
Company Po Disclaimer:	nicy or	The above information desc is based on our present-dat about the safe handling of t processing, transport and c	y knowledge. The it the product named	information is inte in this safety data	ended to give you advice a sheet, for storage,

processing, the information on this safety data sheet is not necessarily valid for the new



Pro Series CA Red

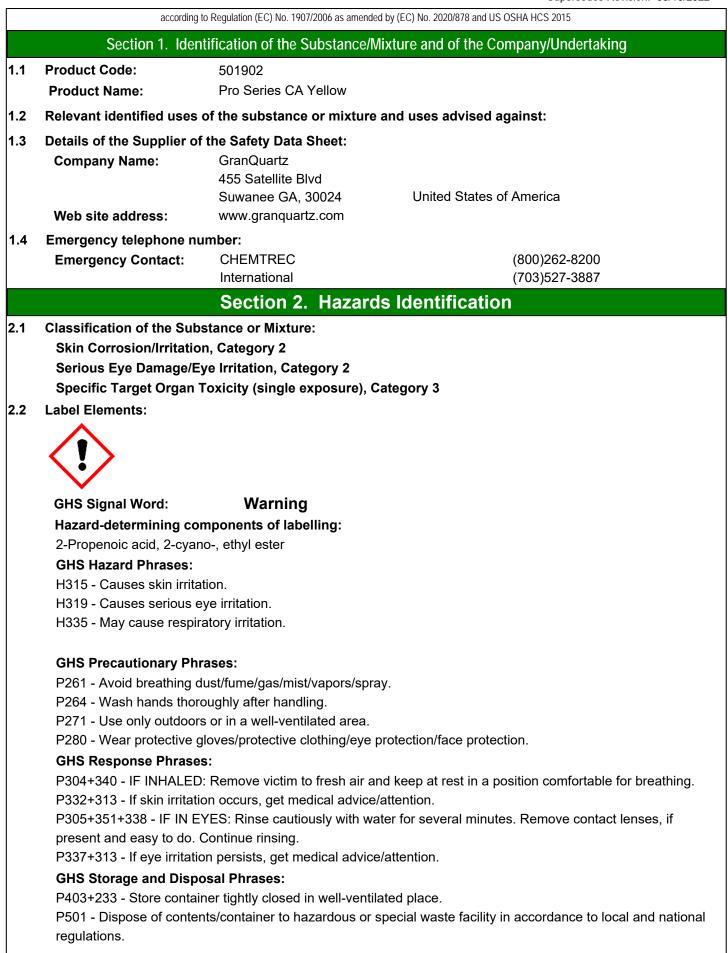
made-up material.



Pro Series CA Yellow

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

Page: 1 of 9



Granguartz SAFETY DATA SHEET Pro Series CA Yellow

SAFETY DATA SHEET

		1	on 3. Compositio	1		1
CAS	#	REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
708	5-85-0	2-Propenoic acid, 2- 01-2119527766-29	cyano-, ethyl ester	80.0 -100.0 %	230-391-5 607-236-00-9	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336
		•	Section 4. F	irst Aid Mea	sures	•
1.1		-	d Call a POISON CENTER	or doctor/physicia	ın if you feel unw	vell.
	Measu In Cas		Remove victim to fresh a still feeling unwell seek n		est in a postition	comfortable for breathing.l
	Contac		drop will generate enoug the adhesive has been re apply warm water to the inside the mouth. Peel or opposing action. If skin in	oacrylates give off h heat to cause a l emoved from the sl ips and encourage roll lips apart. Do ritation occurs: Ge	heat on solidific burn. Burns shou kin. If lips are acc maximum wetti not try to pull the the medical advice	ation. In rare cases a large uld be treated normally after cidentally stuck together ng and pressure from saliva e lips apart with direct /attention.
	In Cas Contac	e of Eye ct:	easy to do. Continure rine water by covering with we periods of weeping which	sing. If the eye is b et pad. Cyanacryla n will help to debon sually within 1-3 d	oonded closed, re ate will bond to e nd the adhesive. ays. Medical adv	Keep eye covered until vice should be sought in cas
	In Cas	e of Ingestion:	Ensure that breathing pa immediately in the mouth separate the solidified pr	making it almost i	impossible to sw	allow. Saliva will slowly
.2	and Ef	ant Symptoms fects, Both and Delayed:	EYE: irritation, conjunctiv SKIN: redness, inflamation RESPIRATORY: Irritation	on	ath, coughing, cl	hest tightness
1.3	Acute and Delayed: Indication of any immediate medical attention and special treatment needed:		No data available.			

Granguartz SAFETY DATA SHEET Pro Series CA Yellow

SAFETY DATA SHEET

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

Media: Unsuitable Water Jet Extinguishing Media: Carbon oxides. and Hazards: Hazardous CombustionTrace amounts of toxic fumes may be released on incineration. Hazardous combustionj Products: Products: products include oxides of carbon, oxides of nitrogen, irritating organic vapors. Flash Pt: ~ 85.00 C (185.0 F) Explosive Limits: LEL: No data UEL: No data. Autoignition Pt: 480.00 C (896.0 F) Fire Fighting Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and suitable protective clothing. Section 6. Accidental Release Measures Outor Protective Precautions, Ensure adequate ventilation. Wear protective gloves, protective clothing, eye protection and suitable protection. Avoid skin and and Emergency Procedures: . :2 Environmental Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Precautions: . Do not use clothes for mopping up. Flood contaminated area with water to complete polymerisation and scrape off floor. Cured material can be disposed of as non-hazardous waste. Section 7. Handling and Storage Avoid breathing dust, fumes, gas, mist, vapoours, or spray. Use only outdoors or in a well-ventiliated area. Low level ventilation is recommended when			Supersedes Revision: 05/10/2022
Media: Unsuitable Water Jet Extinguishing Media: Image: Carbon oxides. 12: Flammable Properties Carbon oxides. and Hazards: Hazardous CombustionTrace amounts of toxic fumes may be released on incineration. Hazardous combustionj Products: products: products include oxides of carbon, oxides of nitrogen, irritating organic vapors. Flash Pt: ~ 85.00 C (185.0 F) Method Used: Closed Cup Explosive Limits: LEL: No data Autoignition Pt: 480.00 C (896.0 F) 3:3 Fire Fighting Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) instructions: and suitable protective clothing. Section 6. Accidental Release Measures Vertexture Equipment and Emergency Protective Precautions, Ensure adequate ventilation. Wear protective gloves, protective clothing, eye protection Protective Equipment and face protection. Avoid skin and and Emergency Precedures: Precautions: Do not use clothes for mopping up. Flood contaminated area with water to complete polymerisation and scrape off floor. Cured material can be disposed of as non-hazardous waste. Section 7. Handling and Storage 1 Precautions To Be <td< th=""><th></th><th></th><th>Section 5. Fire Fighting Measures</th></td<>			Section 5. Fire Fighting Measures
Unsuitable Water Jet Extinguishing Media:	5.1	Suitable Extinguishing	Dry powder, foam, carbon dioxide, or fine water spray
Extinguishing Media: :2 Flammable Properties Carbon oxides. and Hazards: Hazardous CombustionTrace amounts of toxic furnes may be released on incineration. Hazardous combustion] Products: products include oxides of carbon, oxides of nitrogen, irritating organic vapors. Flash Pt: ~ 85 00 C (185 0 F) Method Used: Closed Cup Explosive Limits: LEL: No data Autoignition Pt: 480.00 C (896.0 F) :3 Fire Fighting Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) Instructions: and suitable protective clothing. Section 6. Accidental Release Measures Interfighters should wear positive pressure self-contained breathing apparatus (SCBA) Instructions: and suitable protective clothing. Section 6. Accidental Release Measures Interfighters should wear positive gloves, protective clothing, eye protection Protective Precautions, Ensure adequate ventilation. Wear protective gloves, protective clothing, eye protection Ardigue and Exercise Measures Interfighters should wear positive gloves, protective clothing, eye protection Protective Precautions, Ensure adequate ventilation. W		Media:	
 Flammable Properties Carbon oxides. and Hazards: Hazardous CombustionTrace amounts of toxic fumes may be released on incineration. Hazardous combustionJ Products: products include oxides of carbon, oxides of nitrogen, irritating organic vapors. Flash Pt: ~ 85.00 C (185.0 F) Method Used: Closed Cup Explosive Limits: LEL: No data UEL: No data. Autoignition Pt: 480.00 C (896.0 F) Fire Fighting Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) Instructions: and suitable protective clothing. Section 6. Accidental Release Measures Protective Precautions, Ensure adequate ventilation. Wear protective gloves, protective clothing, eye protection Protective Equipment and face protection. Avoid skin and and Emergency Procedures: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Precautions: Methods and Material For Containment and Cleaning Up: Precautions To Be Taken in Handling: well-ventilated area. Low level ventilation is recommended to minimize the risk of skin or eye contact. Wash hands thoroughly after handling. Precautions To Be Taken in Storing: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. 		Unsuitable	Water Jet
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Other Precautions: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.	7.2		
		-	
Section 8. Exposure Controls/Personal Protection		Other Precautions:	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
		Section	on 8. Exposure Controls/Personal Protection

8.1 **Exposure Parameters:**

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
7085-85-0	2-Propenoic acid, 2-cyano-,	ACGIH TLV	TLV: 0.2 ppm	
ethyl ester				
		Australia	TWA: 9 mg/m3 (2 ppm)	
		Belgium OEL	TWA: 1.04 mg/m3 (0.2 ppm)	
		Switzerland OEL	TWA: 9 mg/m3 (2 ppm)	
		Germany MAK/TRK	TWA: 9 mg/m3 (2 ppm)	
		Denmark OEL	TWA: 10 mg/m3 (2 ppm)	
			STEL: 20 mg/m3 (4 ppm)	
		Spain OEL	TWA: 0.2 ppm	
		Finland OEL	TWA: 1 mg/m3 (0.2 ppm)	
		1	•	Multi-region for



SAFETY DATA SHEET Pro Series CA Yellow

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

7085-85-0 2-Propenoic acid, 2-cyano-,	France VL	TWA: 5 mg/m3	
ethyl ester			
(continued)			
	Hungary OEL	TWA: 5 mg/m3	
		STEL: 20 mg/m3	
	Ireland OEL	TWA: 0.2 ppm	
	NIOSH	CEIL: 5 mg/m3 (10m)	
	Netherlands OEL	TWA: 1 mg/m3	
		STEL: 10 mg/m3	
	OSHA PELs	TWA: 5 mg/m3	
	Poland	TWA: 1 mg/m3	
		STEL: 2 mg/m3	
	Sweden OEL	TWA: 10 mg/m3 (2 ppm)	
		STEL: 20 mg/m3 (4 ppm) (15 min)	
	Britain EH40	STEL: 1.5 mg/m3 (0.3 ppm)	
Derived No-Effect Levels / Pr	edicted No Effect Conc	centrations:	
7085-85-0 2-Propenoic acid,	2-cyano-, ethyl ester		

DNEL Worker	Value		Remarks
Long-term - Inhalation, local effects	9.250	mg/m³	DNEL (Derived No Effect Level)
Long-term - Inhalation, systemic effects	9.250	mg/m³	DNEL (Derived No Effect Level)
DNEL Consumer	Value		Remarks
Long-term - Inhalation, local effects	9.250	mg/m³	DNEL (Derived No Effect Level)
Long-term - Inhalation, systemic effects	9.250	mg/m³	DNEL (Derived No Effect Level)
PNEC	Value		Remarks
aquatic, sediment, marine water			no data available: testing technically not feasible.
aquatic, freshwater			no data available: testing technically not feasible.
predators, secondary poisoning			no data available: testing technically not feasible.
aquatic, STP			no data available: testing technically not feasible.

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.):
 Provide adequate ventilation in area of use. Do NOT use this product in an enclosed or poorly ventilated area. Local exhaust ventilation is normally required when handling or using this product to keep airborne powder below the nationally authorized limits. If ventilation alone cannot control exposure, respiratory protection must be used.

8.2.2 Personal protection equipment:

Personal Protecti	
Equipment Symb	ols:
Eye Protection:	Safety glasses with side-shields conforming to EN166.
Protective Gloves	Nitrile gloves should be used to handle this product. Do not use gloves made of PVC, cotton or nylon. Gloves must be inspected prior to use. Handle with gloves. 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 Protective	Impervious clothing.
Clothing:	
Respiratory Equi (Specify Type):	oment Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
	If the respirator is the sole means of protection, use a full-face supplied air respirator.

Granguartz SAFETY DATA SHEET Pro Series CA Yellow

		Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
8.2.3		Ensure adequate ventilation. Do not let product enter drains. Prevent further leakage or spillage if safe to do so.
	•	Good general ventilation should be sufficient to control airborne levels. General industrial hygiene practice.
	Sec	tion 9. Physical and Chemical Properties
9.1	Information on Basic Phy	vsical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	Transparent.
		characteristic odor.
	pH:	
	Melting Point:	~ -34.4 C (~ -30.00 F)
	Boiling Point:	~ 214.00 C (417.2 F)
	Flash Pt:	~ 85.00 C (185.0 F) Method Used: Closed Cup
	Evaporation Rate:	Not available
	Saturated Vapor Concentration:	No data.
		No data available.
	Flammability (solid, gas) Explosive Limits:	LEL: No data UEL: No data.
	Vapor Pressure (vs. Air o	
	mm Hg):	$S = 0.21 \text{ m/s}^2 = 0.21 \text{ m/s}^2 = 0.0000 \text{ m/s}^2 = 0.21 \text{ m/s}^2 $
		No data.
	Vapor Density (vs. Air =	
	Specific Gravity (Water =	,
	Density:	, 1.040 G/CM3
	Solubility in Water:	0.00002 at 20.0 C (68.0 F)
	Octanol/Water Partition	1.42
	Coefficient:	
	Autoignition Pt:	480.00 C (896.0 F)
	Decomposition	No data.
	Temperature:	
	Viscosity:	Not available
	Explosive Properties:	No data available.
	Oxidizing Properties:	No data available.
9.2	Other Information	
9.2.1	Information with regard Information with regard primary physical hazard	
9.2.2		
	-	

Granguartz SAFETY DATA SHEET Pro Series CA Yellow

SAFETY DATA SHEET

Revision: 06/23/2022 Supercodes Povisio 05/10/2022

		Supersedes Revision: 05/10/2022
		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.2	Stability:	Unstable [] Stable [X]
10.3	Conditions To Avoid -	Spontaneous polymerization will occur in the presence of moisture and other basic
	Hazardous Reactions:	materials.
	Possibility of	Will occur [] Will not occur [X]
	Hazardous Reactions:	
10.4	Conditions To Avoid -	Heat, flames and sparks. Stable under normal conditions of storage and use. This
	Instability:	material should not be exposed to excessive moisture, humidity, or basic materials.
10.5	Incompatibility -	Reducing agents, Water, Amines, Alcohols, Alkali metals, Oxidizing agents.
	Materials To Avoid:	
10.6	Hazardous	Oxides of carbon and oxides of nitrogen
	Decomposition or	
	Byproducts:	
		Section 11. Toxicological Information
11.1	Information on	Acute toxicity.
	Toxicological Effects:	ORAL: LD50(oral,rat) > 5000 mg/kg bw (OECD 401)
		DERMAL: LD50(dermal,rabbit) > 2000mg/kg bw (OCED 402)
		INHHALATION: In dry atmosphere with <50% humidity, vapours may irritate the eyes
		and respiratory system. Prolonged exposure to high concentrations of vapours may lea
		to chronic effects in sensitive individuals.
	Irritation or Corrosion:	Skin corrosion/irritation.
		Irritating to eyes. In a dry atmosphere of less than 50% relative humidity, vapours may cause irritation and lachrymatory effect.
	Sensitization:	Due to polymerisation at the skin surface, allergic reaction is not considered possible. The polymerized material is not able to penetrate into the epidermis.
	Chronic Toxicological	STOT (Single Exposure) - Ethyl 2-cyanoacrylate may cause irritation for skin, eyes and
	Effects:	respiratory system.
		STOT (Repeated Exposure) - Ethyl 2-cyanoacrylate is not toxic by repeated abroption.
	Carcinogenicity/Other	
	Information:	IARC: No component of this product present at levels greater than or equal to 0.1% is
		identified as probable, possible or confirmed human carcinogen by IARC.
		ACGIH: No component of this product present at levels greater than or equal to 0.1% i identified as a carcinogen or potential carcinogen by ACGIH.
		NTP: No component of this product present at levels greater than or equal to 0.1% is
		identified as a known or anticipated carcinogen by NTP.
		OSHA: No component of this product present at levels greater than or equal to 0.1% is
		identified as a carcinogen or potential carcinogen by OSHA.
		Because of the reduced exposure to monomer and the reported negative test result in
		various mutagenicity tests. ethyl-2-cyanoacrylate cannot be classified as a mutagen.
		Aspiration Hazard - No Data Available
Carci	nogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

Granguartz[®] SAFETY DATA SHEET Pro Series CA Yellow

SAFETY DATA SHEET

		Section 12. Ecological Information
12.1	Toxicity:	Low ecotoxicity
12.2	Persistence and Degradability:	Not Applicable (the test compound would polymerize immediately on contact with water or the moisture in the soil
12.3	Bioaccumulative Potential:	Not Applicable - In the presence of moisture, ethyl-2-cyanoacrylate polymerises within seconds.
12.4	Mobility in Soil:	Not Applicable (the test compound would polymerize immediately on contact with water or moisture in soil.
12.5	Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
12.6	Other adverse effects:	No data available.
		Section 13. Disposal Considerations
13.1	Waste Disposal Method:	PRODUCT DISPOSAL Cured Adhesive: Dispose of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions. Dispose of in accordance with local and national regulations. Polymerize by adding slowly to water (10:1) Contribution of this product to waste is very insignificant in comparison to article in which it is used.
		DISPOSAL OF UNLEANED PACKAGES After use, tubes, cartons, and bottles containing residual product should be disposed of as chemically contaminate waste in an authorized legal landfill site or incinerated. Disposal must be made according to official regulations.
	European Waste Catelog No.	WASTE IDENTIFICATION : waste and sealants containing organic solvents and other dangerous substances. 080409
		Section 14. Transport Information
D(D(14.1 14.2 14.2 IM UI	OT Hazard Class: N/NA Number: LAND TRANSPORT (E DR/RID Shipping Name: N Number: azard Class:	 me: Not regulated as a hazardous material. auropean ADR/RID): Not regulated as a hazardous material. (IMDG/IMO):



Page: 8 of 9

NSPORT (ICAC	D/IATA):			
•		ester)		
empping italik		,		
	•		quirements of Pa	cking Instruction 906
		-	•	oking motiodion ooo
		assenger of Cargo	Allolan	
	-	Pooking C		
		-	-	0
SS:				9
	Section 15. Regu	latory Inform	nation	
erfund Amendm	ents and Reauthorization Ac	t of 1986) Lists		
Hazardous Com	oonents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
2-Propenoic acid,	2-cyano-, ethyl ester	No	No	Yes-Cat. N106 (100%
e III Section 31	3 Toxic Release Inventory	· ·		
			quirements of EP	CRA Section 313 (40
2).	-		-	
neets the EPA '	Hazard Categories' define	d for SARA Title I	II Sections 311/3	12 as indicated:
plosive	-			
immable (gases, ae	rosols, liquid, or solid)	[X] Yes [] No Skin	Corrosion or Irritation	
idizer (liquid, solid o	or gas)	[X] Yes [] No Seric	ous eye damage or ey	e irritation
lf-reactive		[] Yes [X] No Respiratory or Skin Sensitization		
	olid)			
		[] Yes [X] No Carcinogenicity		
-			-	
				ity (single or repeated exposur
				wise Classified (UNOC)
	mits hammable gas			wise Classified (HNOC)
	Otherwise Classified (HNOC)			
	. ,	Other US FPA or	State Lists	
	. ,			pt. 8A PAIR. 8D TERM:
			-	, <u>.</u> ,
Hazardous Com	oonents (Chemical Name)	International Regulatory Lists		
2-Propenoic acid,	2-cyano-, ethyl ester	REACH: Yes - 01	I-2119527766-29: I	Full, (P)
	Section 16. Ot	ther Informat	ion	
	06/23/2022			
System [.]		Flammability	Instability	
e yetenni				
		2		
	PHYSICAL 0	Health		
HMIS:	PPE	NFPA:	Special Hazard	l
		•	Special Hazard	I
	PPE	•	Special Hazard	I
rmation About	PPE No data available.	NFPA:	·	
	PPE No data available. The above information des	NFPA:	ne safety requirer	nents of the product and
rmation About	PPE No data available. The above information desuis based on our present-date	NFPA: cribes exclusively th y knowledge. The i	ne safety requirer	ments of the product and ended to give you advice
rmation About	PPE No data available. The above information desi is based on our present-dat about the safe handling of t	NFPA: cribes exclusively th y knowledge. The the product named	ne safety requirer information is inte in this safety data	ments of the product and ended to give you advice a sheet, for storage,
rmation About	PPE No data available. The above information dest is based on our present-dat about the safe handling of t processing, transport and c	NFPA: cribes exclusively th y knowledge. The i the product named lisposal. The inform	ne safety requirer information is inte in this safety data nation cannot be	ments of the product and ended to give you advice a sheet, for storage, transferred to other
rmation About	PPE No data available. The above information desi is based on our present-dat about the safe handling of t	NFPA: cribes exclusively th y knowledge. The the product named lisposal. The inform xing the product wi	ne safety requirer information is inte in this safety data nation cannot be th other products	ments of the product and ended to give you advice a sheet, for storage, transferred to other or in the case of
	Shipping Name Shipping Name and Shipping Name SS: erfund Amendm Hazardous Com 2-Propenoic acid, e III Section 31 ntains a toxic ch 2). neets the EPA ' plosive immable (gases, ae idizer (liquid, solid c lf-reactive rophoric (liquid or so rophoric gas lf-heating ganic peroxide rrosive to metal is under pressure (c contact with water e mbustible Dust nysical) Hazard Not Hazardous Com 2-Propenoic acid, Hazardous Com	Shipping Name: Liquid, (Cyanoacrylate Not regulated as a haz Inner and outer packag when transported by P - : : : : : : : : : : : : : : : : : :	Shipping Name: Liquid, (Cyanoacrylate ester) Not regulated as a hazardous material. Inner and outer packaging should meet rewhen transported by Passenger or Cargo :: Packing G :: Packing G :: IATA Class Section 15. Regulatory Inform erfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) 2-Propenoic acid, 2-cyano-, ethyl ester No e III Section 313 Toxic Release Inventory. ntains a toxic chemical or chemicals subject to the reporting real : [Yes [X] No mable (gases, aerosols, liquid, or solid) [X] Yes [] No idizer (liquid, solid or gas) [X] Yes [] No if-reactive [] Yes [X] No rophoric (gade compressed gas) [] Yes [X] No ganic peroxide [X] Yes [] No rophoric acid, 2-cyano-, ethyl ester TSCA: Yes - Invo is under pressure (compressed gas) [] Yes [X] No Spectrosing is under pressure (compressed gas) [] Yes [X] No Simp contact with water emits flammable gas [] Yes [X] No Simp rophoric acid, 2-cyano-, ethyl ester TSCA: Yes - Invo contact with	Shipping Name: Liquid, (Cyanoacrylate ester) Not regulated as a hazardous material. Inner and outer packaging should meet requirements of Pawhen transported by Passenger or Cargo Aircraft ::::::::::::::::::::::::::::::::::::



SAFETY DATA SHEET Pro Series CA Yellow

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

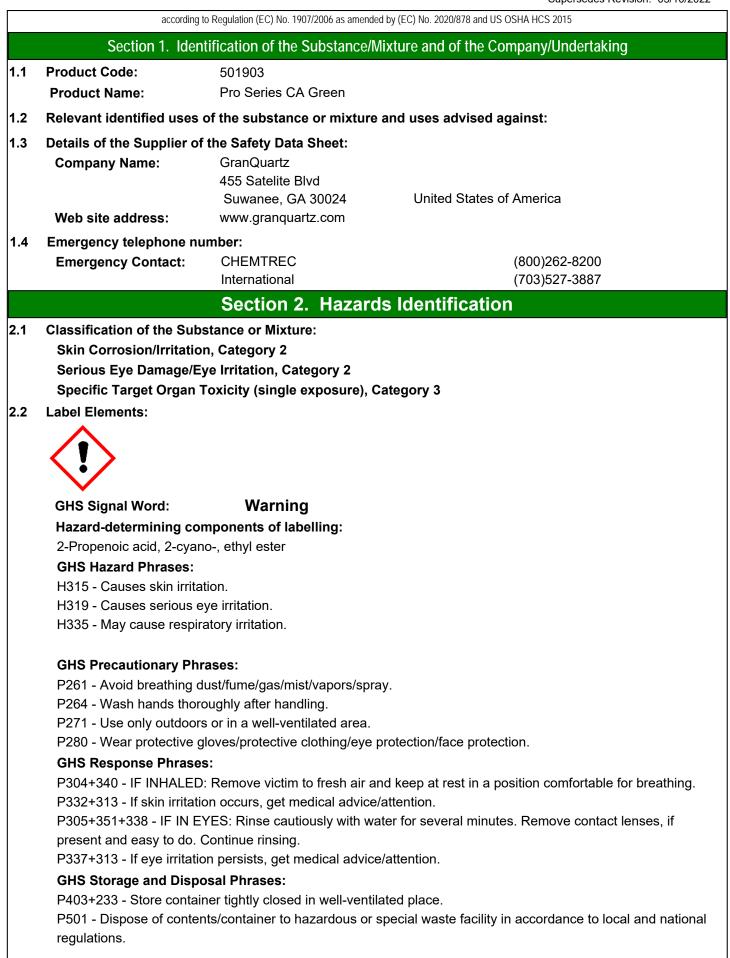
made-up material.



SAFETY DATA SHEET Pro Series CA Green

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

Page: 1 of 9



Granguartz SAFETY DATA SHEET

Multi-region format

		Section	on 3. Composition	n/Information	n on Ingred	lients	
AS		Hazardous Comj REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
708		2-Propenoic acid, 2- 01-2119527766-29	-cyano-, ethyl ester	80.0 -100.0 %	230-391-5 607-236-00-9	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336	
			Section 4. Fi	rst Aid Mea	sures		
.1	-		d Call a POISON CENTER	or doctor/physicia	n if you feel unw	ell.	
	Measure In Case		Remove victim to fresh ai still feeling unwell seek m		est in a postition	comfortable for breathing.	
In Case of Skin Contact:		:	Wash off with soap and plenty of water. Do not pull bonded skin apart. Skin may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. If skin irritation occurs: Get medical advice/attention.				
	In Case of Eye Contact:		Rinse cautiously with water easy to do. Continure rins water by covering with we periods of weeping which	er for several minu ing. If the eye is b it pad. Cyanacryla will help to debon sually within 1-3 da	utes. Remove co oonded closed, re ite will bond to e id the adhesive. ays. Medical adv	ntact lenses, if present and elease eyelashes with warr ye protein and will cause Keep eye covered until <i>v</i> ice should be sought in ca	
	In Case	of Ingestion:	Ensure that breathing pas immediately in the mouth separate the solidified pro	making it almost i	mpossible to sw	allow. Saliva will slowly	
	and Effe	nt Symptoms ects, Both nd Delayed:	EYE: irritation, conjunctivi SKIN: redness, inflamatio RESPIRATORY: Irritation	n	ath, coughing, cl	nest tightness	
.2		on of any ate medical n and special	No data available.				
2 3	attentio	nt needed:					
	attentio	nt needed:					

GranQuartz[®]

SAFETY DATA SHEET

Pro Series CA Green

Page: 3 of 9

		Supersedes Revision: 05/10/2022
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing Media:	Dry powder, foam, carbon dioxide, or fine water spray
	Unsuitable	Water Jet
	Extinguishing Media:	
5.2	Flammable Properties	Carbon oxides.
	and Hazards:	
	Hazardous Combustio	n Trace amounts of toxic fumes may be released on incineration. Hazardous combustionj
	Products:	products include oxides of carbon, oxides of nitrogen, irritating organic vapors.
	Flash Pt:	~ 85.00 C (185.0 F) Method Used: Closed Cup
	Explosive Limits:	LEL: No data UEL: No data.
	Autoignition Pt:	480.00 C (896.0 F)
5.3	Fire Fighting	Firefighters should wear positive pressure self-contained breathing apparatus (SCBA)
	Instructions:	and suitable protective clothing.
		Section 6. Accidental Release Measures
6.1	Protective Precautions	, Ensure adequate ventilation. Wear protective gloves, protective clothing, eye protection,
	Protective Equipment	and face protection. Avoid skin and
	and Emergency	
	Procedures:	
6.2	Environmental	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
	Precautions:	
6.3	Methods and Material	Do not use clothes for mopping up. Flood contaminated area with water to complete
	For Containment and	polymerisation and scrape off floor. Cured material can be disposed of as
	Cleaning Up:	non-hazardous waste.
		Section 7. Handling and Storage
7.1	Precautions To Be	Avoid breathing dust, fumes, gas, mist, vapoours, or spray. Use only outdoors or in a
	Taken in Handling:	well-ventilated area. Low level ventilation is recommended when using large volumes.
		Use of dispensing equipment is recommended to minimize the risk of skin
		or eye contact. Wash hands thoroughly after handling.
7.2	Precautions To Be	For optimum shelf life store in original containers under refrigerated conditions at 2
	Taken in Storing:	degrees Celsius to 8 degrees Celsius. Store locked up in tightly closed containers.
	Other Precautions:	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8. Exposure Controls/Personal Protection

8.1 **Exposure Parameters:**

CAS # Chemical Name		Jurisdiction	Recommended Exposure Limits	Notations
7085-85-0 ethyl ester		2-Propenoic acid, 2-cyano-, ACGIH TLV	TLV: 0.2 ppm	
-		Australia	TWA: 9 mg/m3 (2 ppm)	
		Belgium OEL	TWA: 1.04 mg/m3 (0.2 ppm)	
		Switzerland OEL	TWA: 9 mg/m3 (2 ppm)	
		Germany MAK/TRK	TWA: 9 mg/m3 (2 ppm)	
		Denmark OEL	TWA: 10 mg/m3 (2 ppm) STEL: 20 mg/m3 (4 ppm)	
		Spain OEL	TWA: 0.2 ppm	
		Finland OEL	TWA: 1 mg/m3 (0.2 ppm)	
		'		Multi-region fo



Pro Series CA Green

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

7085-85-0 2-Propenoic acid, 2-cyano	-, France VL	TWA: 5 mg/m3	
ethyl ester			
(continued)			
	Hungary OEL	TWA: 5 mg/m3	
		STEL: 20 mg/m3	
	Ireland OEL	TWA: 0.2 ppm	
	NIOSH	CEIL: 5 mg/m3 (10m)	
	Netherlands OEL	TWA: 1 mg/m3	
		STEL: 10 mg/m3	
	OSHA PELs	TWA: 5 mg/m3	
	Poland	TWA: 1 mg/m3	
		STEL: 2 mg/m3	
	Sweden OEL	TWA: 10 mg/m3 (2 ppm)	
		STEL: 20 mg/m3 (4 ppm) (15 min)	
	Britain EH40	STEL: 1.5 mg/m3 (0.3 ppm)	
Derived No-Effect Levels / F	redicted No Effect Co	ncentrations:	
7085-85-0 2-Propenoic acid	l, 2-cyano-, ethyl ester		
DNEL Worker	Value	Remarks	
Long-term - Inhalation, local effects	9.250 mg/m ³	DNEL (Derived No Effect Level)	
Long-term - Inhalation, systemic effects	9.250 mg/m ³	DNEL (Derived No Effect Level)	
DNEL Consumer	Value	Remarks	
Long-term - Inhalation, local effects	9.250 mg/m ³	DNEL (Derived No Effect Level)	
Long-term - Inhalation, systemic effects	9.250 mg/m ³	DNEL (Derived No Effect Level)	
PNFC	Value	Remarks	

PNEC	Value	Remarks
aquatic, sediment, marine water		no data available: testing technically not feasible.
aquatic, freshwater		no data available: testing technically not feasible.
predators, secondary poisoning		no data available: testing technically not feasible.
aquatic, STP		no data available: testing technically not feasible.

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.):
 Provide adequate ventilation in area of use. Do NOT use this product in an enclosed or poorly ventilated area. Local exhaust ventilation is normally required when handling or using this product to keep airborne powder below the nationally authorized limits. If ventilation alone cannot control exposure, respiratory protection must be used.

8.2.2 Personal protection equipment:

	derbenenen.
Personal Protective	
Equipment Symbols:	
Eye Protection:	Safety glasses with side-shields conforming to EN166.
Protective Gloves:	Nitrile gloves should be used to handle this product. Do not use gloves made of PVC, cotton or nylon. Gloves must be inspected prior to use. Handle with gloves. 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 Protective	Impervious clothing.
Clothing:	
Respiratory Equipmen (Specify Type):	t Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
	If the respirator is the sole means of protection, use a full-face supplied air respirator.

Granguartz SAFETY DATA SHEET Pro Series CA Gree

Pro Series CA Green

		Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
8.2.3	Exposure Controls: SExposure Scenarios: C	Ensure adequate ventilation. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Good general ventilation should be sufficient to control airborne levels. General industrial hygiene practice.
	Sec	tion 9. Physical and Chemical Properties
9.1	Information on Basic Phy	vsical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	Transparent. characteristic odor.
	pH:	Not available
	Melting Point:	~ -34.4 C (~ -30.00 F)
	Boiling Point:	~ 214.00 C (417.2 F)
	Flash Pt:	~ 85.00 C (185.0 F) Method Used: Closed Cup
	Evaporation Rate:	Not available
	Saturated Vapor	No data.
	Concentration:	
	Flammability (solid, gas)	
	Explosive Limits:	LEL: No data UEL: No data.
	Vapor Pressure (vs. Air o mm Hg):	or <= 0.21 hPa at 20.0 C (68.0 F)
	nin ng).	No data.
	Vapor Density (vs. Air =	
	Specific Gravity (Water =	
	Density:	1.040 G/CM3
	Solubility in Water:	0.00002 at 20.0 C (68.0 F)
	Octanol/Water Partition	1.42
	Coefficient:	
	Autoignition Pt:	480.00 C (896.0 F)
	Decomposition	No data.
	Temperature:	
	Viscosity:	Not available
	Explosive Properties:	No data available.
	Oxidizing Properties:	No data available.
9.2	Other Information	
9.2.1	Information with regard Information with regard primary physical hazard	
9.2.2	Other safety characteris	
	-	

Granguartz SAFETY DATA SHEET Pro Series CA Green

Page: 6 of 9

		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.1	Stability:	Unstable [] Stable [X]				
10.2	-	Spontaneous polymerization will occur in the presence of moisture and other basic				
10.5	Hazardous Reactions:					
	Possibility of	Will occur [] Will not occur [X]				
	Hazardous Reactions:					
10.4		Heat, flames and sparks. Stable under normal conditions of storage and use. This				
10.4	Instability:	material should not be exposed to excessive moisture, humidity, or basic materials.				
10.5	Incompatibility -	Reducing agents, Water, Amines, Alcohols, Alkali metals, Oxidizing agents.				
10.0	Materials To Avoid:					
10.6	Hazardous	Oxides of carbon and oxides of nitrogen				
	Decomposition or					
	Byproducts:					
		Section 11. Toxicological Information				
11.1	Information on	Acute toxicity.				
	Toxicological Effects:	ORAL: LD50(oral,rat) > 5000 mg/kg bw (OECD 401)				
	Toxicological Effects.	DERMAL: LD50(dermal,rabbit) > 2000mg/kg bw (OCED 402)				
		INHHALATION: In dry atmosphere with <50% humidity, vapours may irritate the eyes				
		and respiratory system. Prolonged exposure to high concentrations of vapours may lead				
		to chronic effects in sensitive individuals.				
	Irritation or Corrosion:	Skin corrosion/irritation.				
		Irritating to eyes. In a dry atmosphere of less than 50% relative humidity, vapours may				
		cause irritation and lachrymatory effect.				
	Sensitization:	Due to polymerisation at the skin surface, allergic reaction is not considered possible.				
		The polymerized material is not able to penetrate into the epidermis.				
	Chronic Toxicological					
	Effects:	respiratory system.				
		STOT (Repeated Exposure) - Ethyl 2-cyanoacrylate is not toxic by repeated abroption.				
	Carcinogenicity/Other	This product is non-carcinogenic and not toxic by reproduction.				
	Information:	IARC: No component of this product present at levels greater than or equal to 0.1% is				
		identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is				
		identified as a carcinogen or potential carcinogen by ACGIH.				
		NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% i identified as a carcinogen or potential carcinogen by OSHA.				
		Because of the reduced exposure to monomer and the reported negative test result in				
		various mutagenicity tests. ethyl-2-cyanoacrylate cannot be classified as a mutagen.				
		Aspiration Hazard - No Data Available				
	nogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No				

Granguartz SAFETY DATA SHEE Pro Series CA Green

SAFETY DATA SHEET

Multi-region format

		Section 12. Ecological Information		
12.1	Toxicity:	Low ecotoxicity		
12.2	Persistence and Degradability:	Not Applicable (the test compound would polymerize immediately on contact with water or the moisture in the soil		
12.3	Bioaccumulative Potential:	Not Applicable - In the presence of moisture, ethyl-2-cyanoacrylate polymerises within seconds.		
12.4	Mobility in Soil:	Not Applicable (the test compound would polymerize immediately on contact with water or moisture in soil.		
12.5	Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.		
12.6	Other adverse effects:	No data available.		
		Section 13. Disposal Considerations		
13.1	Waste Disposal Method:	PRODUCT DISPOSAL Cured Adhesive: Dispose of as water insoluble non-toxic solid chemical in authorized landfill or incinerate under controlled conditions. Dispose of in accordance with local and national regulations. Polymerize by adding slowly to water (10:1) Contribution of this product to waste is very insignificant in comparison to article in which it is used.		
		DISPOSAL OF UNLEANED PACKAGES After use, tubes, cartons, and bottles containing residual product should be disposed of as chemically contaminate waste in an authorized legal landfill site or incinerated. Disposal must be made according to official regulations.		
	European Waste	- WASTE IDENTIFICATION : waste and sealants containing organic solvents and other dangerous substances. 080409		
	Catelog No.			
		Section 14. Transport Information		
D	OT Hazard Class: N/NA Number:	ne: Not regulated as a hazardous material.		
AI UI	LAND TRANSPORT (E DR/RID Shipping Name: N Number: azard Class:	• •		
14.2	MARINE TRANSPORT	(IMDG/IMO):		
UI	IDG/IMO Shipping Name N Number: azard Class:	e: Not regulated as a hazardous material. Packing Group:		



Page: 8 of 9

			Sup	ersedes Revision: 05/10/2022
14.3 AIR TRANSPORT (IC	AO/IATA):			
ICAO/IATA Shipping Na	me: Liquid, (Cyanoacrylate Not regulated as a haze Inner and outer packag when transported by Pa	ardous material. ing should meet re	•	acking Instruction 906
UN Number:	-	Packing G	iroup:	
Hazard Class:		IATA Clas	-	9
	Section 15. Regu	latory Inform	nation	
EPA SARA (Superfund Ameno	Iments and Reauthorization Act	t of 1986) Lists		
CAS # Hazardous Co	mponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7085-85-0 2-Propenoic ac	id, 2-cyano-, ethyl ester	No	No	Yes-Cat. N106 (100%)
[] Yes [X] NoExplosive[] Yes [X] NoFlammable (gases,[] Yes [X] NoOxidizer (liquid, solid)[] Yes [X] NoSelf-reactive[] Yes [X] NoPyrophoric (liquid on the solid)[] Yes [X] NoPyrophoric gas[] Yes [X] NoSelf-heating[] Yes [X] NoOrganic peroxide[] Yes [X] NoCorrosive to metal[] Yes [X] NoGas under pressure[] Yes [X] NoIn contact with wate[] Yes [X] NoCombustible Dust[] Yes [X] No(Physical) Hazard Notation	d or gas) r solid)	[]Yes [X]No Acu [X]Yes []No Skin [X]Yes []No Seri []Yes [X]No Res []Yes [X]No Geri []Yes [X]No Card []Yes [X]No Rep [X]Yes []No Spe []Yes [X]No Aspi []Yes [X]No Sim	te toxicity (any route of Corrosion or Irritation ous eye damage or e piratory or Skin Sensi m cell mutagenicity cinogenicity roductive toxicity cific target organ toxic ration Hazard ole Asphyxiant alth) Hazard Not Othe	of exposure) n ye irritation
7085-85-02-Propenoic acid, 2-cyano-, ethyl ester		TSCA: Yes - Inventory: Active/Exempt, 8A PAIR, 8D TERM; CA PROP.65: No		
CAS # Hazardous Co	mponents (Chemical Name)	International Re		
	id, 2-cyano-, ethyl ester		1-2119527766-29:	Full, (P)
	Section 16. Ot	her Informat	ion	
Revision Date:	06/23/2022			
Hazard Rating System: HMIS:	HEALTH * 2 FLAMMABILITY 2 PHYSICAL 0 PPE NFPA:			
Additional Information Abo	ut No data available.			
This Product:				
Company Policy or Disclaimer:	The above information desc is based on our present-day about the safe handling of t processing, transport and d products. In the case of mi processing, the information	y knowledge. The he product named isposal. The infor xing the product w	information is int in this safety dat mation cannot be ith other products	ended to give you advice a sheet, for storage, transferred to other s or in the case of





SAFETY DATA SHEET Pro Series CA Green

Revision: 06/23/2022 Supersedes Revision: 05/10/2022

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