SAFETY DATA SHEETS

This SDS packet was issued with item:

071205012

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

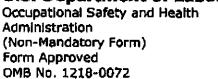
071204916 071205053



Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor



IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted. If any litem is not applicable, or no information is
Astron LC Hard Reline	available, the space must be marked to indicate that.

Section I

Manufacturer's Name	Emergency Telephone Number
Astron Dental Corporation	1-800-535-5053
Address (Number, Street, City, State, and	Telephone Number for Information
ZIP Code) 815 Oakwood Road	1-800-323-4144
Lake Zurich, IL 60047	Date Prepared 01/01/13
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

	Components (Spe entity; Common		OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Liquiđ	Component:	Methacr	ylic aci	d butyl	ester	
Powder	Component:	Methacr	ylate po	lymer (ø	ion-hazardou	IS)
				<u>. </u>		
	<u></u>		<u> </u>			
			<u></u>	<u>,</u>		

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Section III - Physical/Chemical Characteristics

Boiling Point	292°C	Specific Gravity $(H_2O = 1)$	1.005	
Vapor Pressure (mm Hg)	7 @	Melting Point	N/A	
Vapor Density (AIR = 1)	1	Evaporation Rate (Butyl Acetate = 1.)	. N/A	
Soluțility în Water Negligible				
Appearance and Odor Clea	nr, pale ye	ellow liquid, mild odor	•	

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 110°C	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media Chemical foam, carbo	n dioxide, dry ch	emicals, water	spray.
Special Fire Fighting Procedure material with cold w			
and may travel to th	e source of ignit	ion.	
Unusual Fire and Explosion Haz Sealed containers ex		temperatures	may rupture
explosively from pol	ymerization. Vapo	rs are heavier	than air.

Section V - Reactivity Data

Stability	Unstable		Unstable Conditions to Avoid Heat and ignition sources.		
	Stable	x			
Incompatibility Reducing a	(Materials and oxid	<i>to Avoid)</i> lizing a	gents. Can soften paint and rubber.		
Hazardous Deco Carbon die	omposition	or Byprodu arbon m	onixide, and smoke.		
Hazardous Polymerization	May Occur	X Conditions to Avoid Excessive heat. No hazard when stored accordingly.			
	Will Not Occur				

Section VI - Health Hazard Data

Route(s) of Entry:	Inhaiation? Nausea	Skin? Rash	Ingestion? Nausea
Health Hazards (Acut	e and Chronic)		
	<u></u>		
Carcinogenicity: No	NTP? No	IARC Monographs? No	OSHA Regulated? No
Signs and Symptoms	of Exposure		
	<u></u>		
Medical Conditions Generally Aggravated	l by Exposure		
Emergency and First			
		for 15 minutes. W	
	If inhaled, mo ng and seek im	ove to fresh air.	

Section VII - Precautions for Safe Handling and Use

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sources.	Absorb spills with inert material and transfer to a
suitable	container for disposal.
Waste Dispos Should no	sal Method of be allowed to drain into sewers. Incinerate liquid
	r equipment. Follow all local, state and federal on regarding disposal of material.
Precautions t Store in	to Be taken in Handling and Storing a cool, dry place away from heat and light.
Other Precau	

Section VIII - Control Measures

1

	octection (Specify Type) Whe ained breathing appar		rs exceed 100 ppm, u	se a
Ventilation	Local Exhaust Keep con tion below 100 ppm		Special None	
	Mechanical (General) Non	e	Other None	
Protective Gloves Impervious, neoprene type Safety goggles				
Other Protective Clothing or Equipment Eyewash and safety shower is recommended.				
Work/Hygienic	Practices Practice good	person	nal hygiene.	

* U.S.G.P.O.: 1986 - 491 - 529/45775



SAFETY DATA SHEET

ssue Date 2015-05-31	Revision Date 2015-5-31 Revi	sion: R
1. PRODUCT AND COMPANY IE	DENTIFICATION	
Product Identifier:		
Product Name:	Astron LC Hard Powder	
Alternate Name(s):	Astron - Light Cured Hard Powder	
Recommended Use of the substan	ce or mixture and Restrictions on Use:	
Intended Use:	See Technical Data Sheet	
Application Method:	See Technical Data Sheet	
Details of the Supplier of the Safet	v Data Sheet:	
Company Name:	Astron Dental Corporation	
Supplier Address:	815 Oakwood Road, Unit G	
	Lake Zurich, IL. 60047 (USA)	
Email:	customerservice@astrondental.com	
Emergency Telephone Numbers		
Customer Service:	800-323-4144 / 847-726-8787 (During Business Hours, 8:00am - 4:00pm CST)	
24 hour Emergency:	Infotrac: 800-535-5053	
2. HAZARDS IDENTIFICATION		

Classification of the Substance or Mixture: Combustible Dust - May form combustible dust concentrations in air.

Label Elements: Using the Toxicity Data listed in Section 11 and 12 the product is labeled as follows:



Warning	
[Prevention]	
P210	Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P240	Ground / bond container and receiving equipment.
P241	Use explosion-proof electrical / ventilation / light / equipment.
P280	Wear protective gloves / eye protection / face protection.
[Response]	
P370+P378	In case of fire; Use extinguishing media listed in Section 5 of SDS for extinction.
[Storage]	
	No GHS storage statements
[Disposal]	
	No GHS disposal statements

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Issue Date 2015-05-31

Revision Date 2015-05-31

Revision: R0

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
PROPENOIC ACID, 2-METHYL-, ETHYL ESTER, HOMOPOLYMER CAS Number: 0009003-42-3	75 – 100	Combustible Dust	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1]Substance classified with a health or environmental hazard.

[2]Substance with a work place exposure limit.

[3]PBT-substance or vPvB-substance.

*The full texts of phrases are shown in Section 16

4. FIRST AID MEASURES

Description of First Aid Measures:

General: In all cases of doubt, or when symptoms persist, seek medical assistance. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular, or stopped, give artificial respiration. If unconscious, place in a recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion: If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed:

Overview: No specific symptom data.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water, C0₂ and/or dry chemical. Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust into the air producing fire hazards and possible explosion hazards if exposed to ignition source.

Special Hazards arising from the substance or Mixture: Hazardous decomposition, Methocrylate monomer and Oxides of Carbon when burned. Keep away from hear / sparks / open flames / hot surfaces – no smoking. Ground / bond container and receiving equipment; Use explosion – proof electrical / ventilation / light / equipment.

Hazardous Combustion Products: Firefighters should wear self-contained breathing apparatus. Dust explosions are possible. Polymer dust is combustible. The explosive limits of polymer dust particles suspended in air are approximately those of coal dust.

ERG Guide #: ---

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Put on appropriate personal protective equipment. (See Section 8).

Use good personal hygiene practices, Wash hands before eating, drinking smoking and/or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental Precautions: Do not allow spills to enter drains or water ways.

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Revision: R0

Methods and material for containment and clean up: Sweep and/or vacuum to clean up spills. Do not use procedures which cause dispersion of dust into the air if any possibility of ignition exists. Dispose in accordance with Local, State and Federal regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid dust generation when handling product to minimize explosion potential. Use only in well ventilated areas. See section 2 for further details. – [Prevention]

Conditions for Safe Storage, Including any Incompatibilities:

Handle containers carefully to prevent damage and spillage. Keep container tightly closed. Incompatible materials: Strong oxidizing agent. See Section 2 for further details. – [Storage]

Specific end use(s) No data available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters:

Exposure:

CAS No.	Ingredient	Source	Value
0009003-42-3	09003-42-3 PROPENOIC ACID, 2-METHYL-, ETHYL ESTER, HOMOPOLYMER	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
	Supplier	No Established Limit	

The exposure limits for nuisance dust are: OSHA PEL: 15 mg/m³ (50 mppcf*) TWA, ACGIH 10 mg/m³

Carcinogen Data:

CAS No.	Ingredient	Source	Value
0009003-42-3	PROPENOIC ACID, 2-METHYL-,	OSHA	Select Carcinogen: No
	ETHYL ESTER, HOMOPOLYMER	NTP	Known: No // Suspected: No
		IARC	Group 1: No // Group 2a: No // Group 3: No // Group 4: No

Respiratory: If workers are exposed to concentrations above the exposure limit, they must use appropriate certified respirators **Eye:** Protective safety glasses recommended.

Skin: If it is anticipated that prolonged skin contact will occur, use gloves designed for routine industrial use.

Engineering Controls: Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentration of particulates and any vapor below occupational exposure limits, suitable respiratory protection must be worn.

Other Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See Section 2 for further details - [Prevention]:

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fine clear to pigmented Powder		
Odor:	Faint		
Odor Threshold:	Not Determined		
pH:	Not Measured		
Melting point / Freezing point:	Not Measured		
Initial boiling point & boiling range:	Not Measured		
Flash Point:	304°C, 508°F		
Evaporation rate (Ether = 1):	Not Measured		
Flammability (solid, gas):	Not Applicable		
Upper/Lower Flammability or Explosive Limits:	Lower Explosive Limit: Not Measured		
	Upper Explosive Limit: Not Measured		
Vapor Pressure (Pa):	Not Measured		
Vapor Density:	Not Measured		
Specific Gravity:	Not Measured		
Solubility in Water:	Insoluble		
Partition coefficient n-octanol/water (Log Kow):	Not Measured		
Auto-Ignition Temperature:	Not Measured		
Decomposition Temperature:	Not Measured		

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10. STABILITY AND REACTIVITY

Reactivity:Hazardous Polymerization will not occur.Chemical Stability:Stable under normal circumstances.Possibility of Hazardous Reactions:No data available.Conditions to Avoid:Heating above 240° C // 464° F.Incompatible Materials:Strong oxidizing agents.Hazardous decomposition products:Methacrylate Monomer and Oxides of Carbon when burned.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient	Oral LD50 mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust / Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
PROPENOIC ACID, 2-METHYL-, ETHYL	No data	No data	No data	No data	No data
ESTER, HOMOPOLYMER – (9003-42-3)	available	available	available	available	available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description	
Acute toxicity (oral)	-	Not Applicable	
Acute toxicity (dermal)	-	Not Applicable	
Acute toxicity (inhalation)	-	Not Applicable	
Skin corrosion / irritation		Not Applicable	
Serious eye damage / irritation		Not Applicable	
Respiratory sensitization	-	Not Applicable	
Skin sensitization	-	Not Applicable	
Germ cell mutagenicity	-	Not Applicable	
Carcinogenicity	-	Not Applicable	
Reproductive toxicity	-	Not Applicable	
STOT-single exposure	-	Not Applicable	
STOT-repeated exposure	-	Not Applicable	
Aspiration hazard	-	Not Applicable	

12. ECOLOGICAL INFORMATION

Toxicity:

No additional information provided for this product.

See Section 3 for chemical specific data.

Aquatic Eco-Toxicity

Ingredient	96 hr LC50 fish,	48hr EC50 crustacea,	ErC50 algae,
	mg/l	mg/l	mg/l
PROPENOIC ACID, 2-METHYL-, ETHYL ESTER, HOMOPOLYMER-(9003-42-3)	Not Available	Not Available	Not Available

Persistence and degradability

There is no data available on the preparation itself. Bio-accumulative potential Not Measured. Mobility in soil No data available. Results of PBT and vPvB assessment. This product contains no PBT/vPvB chemicals.

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13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Observe all Federal, State and Local regulations when disposing of this substance. Reuse of empty drums or containers is not recommended.

14. TRANSPORT INFORMATION

	D.O.T. (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
U.N. number	N/A	N/R	N/R
U.N. proper shipping	N/R	N/R	N/R
Transport Hazard class(es)	DOT Hazard Class: N/A	IMDG: N/A Sub Class: N/A	Air Class: N/A
Packing group	N/A	N/A	N/A
Environmental hazards	-	Marine Pollutant: No	-
Special precautions for user	No further information		

15. REGULATORY INFORMATION

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA inventory.

WHMIS Classification: Not Regulated

US EPA Tier II Hazards

Fire:	Yes
Sudden Release of Pressure:	No
Reactive:	No
Immediate(Acute):	No
Delayed (Chronic):	No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Carcinogens (>0.0%):

Titanium dioxide.

Proposition 65 – Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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Issue Date 2015-05-31 Pennsylvania RTK Substances (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations and orders.

The full text of the phrases appearing in Section 3 is: N/A

End of Document