SAFETY DATA SHEETS

This SDS packet was issued with item:

071205053

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 071205012

FOR CHEMICAL EMERGENCY
Spill, Leak, Fire, Exposure or Accident
CALL INFORRAC - Daylor, Night
800-535-5053
OUTSIDE THE UNITED STATES CALL COLLEGE 1, 123-121-1400

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

Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072



	Note: Blank spaces are not permitted. If any
Astron LC Hard Reline	item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Astron Dental Corporation	Emergency Telephone Number 1-800-535-5053	
Address (Number, Street, City, State, and ZIP Code) 815 Oakwood Road	Telephone Number for Information 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)
Liguid	Component:	Methacr	ylic aci	d buty	l ester	
Powder	Component:	Methacr	ylate po	lymer	(non-hazardo)	ıs)
						
						
				¥••=========		



Section III - Physical/Chemical Characteristics

Boiling Point	292°C	Specific Gravity (H ₂ O = 1)	1.005
Vapor Pressure (mm Hg)	7 e 160°C	Melting Point	n/a
Vapor Density (AIR = 1)	1	Evaporation Rate (Butyl Acetate = 1)	. N/A
Solubility in Water Neglic	gible		
Appearance and Odor Clea	or, pale y	ellow liquid, mild odor	•

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 110°C	Flammable Limits	LEL N/A	UĒL N/A
Extinguishing Media Chemical foam, carbor	dioxide, dry che	emicals, water	spray.
Special Fire Fighting Procedures material with cold we	<u>-</u>		- i
and may travel to the	e source of igniti	ion.	
Unusual Fire and Explosion Haz Sealed containers exp		temperatures	may rupture
explosively from poly	merization. Vapor	rs are heavier	than air.

Section V - Reactivity Data

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

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? Nausea	Skin? Rash	Ingestion? Nausea
Health Hazards (Acute	and Chronic)		
Carcinogenicity: No	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms o	f Exposure		
Medical Conditions Generally Aggravated t	oy Exposure		
Emergency and First Air Flush eyes wit	ld Procedures h warm water for	15 minutes. Wa	sh skin with
soap & water.	If inhaled, move	to fresh air.	If ingested,

induce vomiting and seek immediate medical attention. Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled For high vapor concentration, evacuate area, eliminate ignition
sources. Absorb spills with inert material and transfer to a
suitable container for disposal.
Waste Disposal Method Should not be allowed to drain into sewers. Incinerate liquid
in proper equipment. Follow all local, state and federal regulation regarding disposal of material.
Precautions to Be taken in Handling and Storing Store in a cool, dry place away from heat and light.
Other Precautions Always use according to directions.

Section VIII - Control Measures

	ctection (Specify Type) Wher ined breathing appara		s exceed	l 100 ppm, use	a
Ventilation	tion below 100 ppm None			•	
	Mechanical (General) None	3	Other	None	
Protective Gloves Impervious, neoprene type Eye Protection Safety goggles					
Other Protective Clothing or Equipment Eyewash and safety shower is recommended.					
Work/Hygienic	Practices Practice good	person	al hygie	ne.	

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



SAFETY DATA SHEET

Issue Date 2015-05-31

Revision Date 2015-5-31

Revision: R0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:

Product Name:

Astron LC Hard Powder

Alternate Name(s):

Astron - Light Cured Hard Powder

Recommended Use of the substance or mixture and Restrictions on Use:

Intended Use:

See Technical Data Sheet

Application Method:

See Technical Data Sheet

Details of the Supplier of the Safety Data Sheet:

Company Name: Supplier Address: Astron Dental Corporation

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.

SDS for: Astron LC Hard Powder

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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.

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 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:

pH:

Not Determined

Not Measured

Flash Point:

Evaporation rate (Ether = 1):

Not Measured

Not Applicable

Upper/Lower Flammability or Explosive Limits: Lower Explosive Limit: Not Measured

Vapor Pressure (Pa):

Upper Explosive Limit: Not Measured
Not Measured

Vapor Density:

Specific Gravity:

Solubility in Water:

Partition coefficient n-octanol/water (Log Kow):

Auto-Ignition Temperature:

Not Measured
Not Measured
Not Measured
Not Measured

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Viscosity (cSt):

Other Information: No other relevant information

Not Measured

Revision: R0

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 ESTER, HOMOPOLYMER – (9003-42-3)	No data available	No data available	No data available	No data available	No data 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.

SDS for: Astron LC Hard Powder

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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 N/A N/R N/R

U.N. number U.N. proper shipping N/R N/R N/R

IMDG: N/A Air Class: Transport Hazard class(es) DOT Hazard Class: N/A Sub Class: N/A N/A

Packing group N/A N/A N/A Marine Pollutant: No **Environmental hazards**

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.

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