

Issue Date 2015-05-31

Revision Date 2015-5-31

Revision: R0

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier:**

Product Name: Astron LC Hard Liquid
Alternate Name(s): Astron - Light Cured Hard Liquid

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: 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: Acute Tox. 4; H332 Harmful if inhaled
Skin Irrit. 2; H315 Causes skin irritation
Eye Irrit. 2; H319 Causes serious eye injury
Skin Sens. 1; H317 May cause an allergic reaction
STOT SE 3; H335 May cause respiratory irritation

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

**Warning**

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
[Prevention]
P261 Avoid breathing dust / fumes / gas / mist / vapors / spray
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves / eye protection / face protection
[Response]
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P313 Get medical attention / advice.

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- P321 Specific treatment (see information on this label)
- P333+313 If skin irritation or rash occurs: Get medical advice / attention.
- P337+313 If eye irritation persists: Get medical advice / attention.
- P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.

[Storage]

- P403+233 Store in a well ventilated area. Keep container tightly closed.
- P405 Store locked up.

[Disposal]

- P501 Dispose of contents / container in accordance with local / national regulations.

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.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Butyl Methacrylate CAS Number: 0000097-88-1	25-50	Flam. Liq. 3;H226 Eye Irrit. 2;H319 STOT SE 3;H335 Skin Irrit. 2;H315 Skin Sens. 1;H317	[1]
Ethoxylated Bisphenol A Dimethacrylate CAS Number: 0041637-38-1	25-50	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 STOT SE 3;H335	[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 available. See Section 2 for further details.
- Inhalation:** Harmful if inhaled. May cause respiratory irritation.
- Eyes:** Causes serious eye irritation.
- Skin:** May cause an allergic skin reaction. Causes skin irritation.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: As appropriate for surrounding fire.

Special Hazards arising from the substance or Mixture: Hazardous decomposition. No hazardous decomposition data available.

Avoid breathing dust / fume/ gas / mist / vapors / spray

Advice for fire-fighters: None.

ERG Guide No. ---

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Put on appropriate personal protective equipment. (See Section 8).

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

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

Methods and material for containment and clean up: Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in Section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and/or vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See Section 13)

7. HANDLING AND STORAGE

Precautions for Safe Handling: See Section 2 for further details. – [Prevention]

Conditions for Safe Storage, Including any Incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available

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
0000097-88-1	Butyl-methacrylate	OSHA	No established Limit
		ACGIH	TWA: 50 ppm
		NIOSH	No established Limit
		Supplier	No established Limit
0041637-38-1	Ethoxylated Bisphenol A Dimethacrylate	OSHA	No established Limit
		ACGIH	No established Limit
		NIOSH	No established Limit
		Supplier	No established Limit

Carcinogen Data:

CAS No.	Ingredient	Source	Value
0000097-88-1	Butyl methacrylate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 4: No
0041637-38-1	Ethoxylated Bisphenol A Dimethacrylate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 4: No

Exposure Controls:

- Respiratory:** If workers are exposed to concentrations above the exposure limit, they must use appropriate certified respirators.
- Eyes:** Protective safety glasses recommended.
- Skin:** Chemical resistant gloves recommended.
- Engineering Controls:** Provide adequate ventilation where reasonably practicable. 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:	Liquid
Odor:	Not Available
Odor Threshold:	Not Determined
pH:	Not Measured
Melting point / Freezing point:	Not Measured
Initial boiling point & boiling range:	Not Measured
Flash Point:	Non flammable
Evaporation rate (Ether = 1):	Not Measured
Flammability (solid, gas):	Not Applicable
Upper/Lower Flammability or Explosive Limits:	Lower Explosive Limit: <i>Not Measured</i> Upper Explosive Limit: <i>Not Measured</i>
Vapor Pressure (Pa):	Not Measured
Vapor Density:	Not Measured
Specific Gravity:	Not Measured
Solubility in Water:	Not Available
Partition coefficient n-octanol/water (Log Kow):	Not Measured
Auto-ignition Temperature:	Not Measured
Decomposition Temperature:	Not Measured
Viscosity (cSt):	Not Measured

Other Information: No other relevant information

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:	No data available.
Incompatible Materials:	No data available.
Hazardous decomposition products:	No hazardous decomposition data available.

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
Butyl methacrylate (97-88-1)	16,000.00, Rat – Category: NA	10,125.00, Rabbit – Category: NA	No data available	No data available	4,910.00, Rat – Category: 4
Ethoxylated Bisphenol A Dimethacrylate- (41637-38-1)	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)	4	Harmful if inhaled
Skin corrosion / irritation	2	Causes skin irritation
Serious eye damage / irritation	2	Causes serious eye irritation.
Respiratory sensitization	-	Not Applicable
Skin sensitization	1	May causes an allergic skin reaction
Germ cell mutagenicity	-	Not Applicable
Carcinogenicity	-	Not Applicable
Reproductive toxicity	-	Not Applicable
STOT-single exposure	3	May cause respiratory irritation
STOT-repeated exposure	-	Not Applicable
Aspiration hazard	-	Not Applicable

12. ECOLOGICAL INFORMATION

Toxicity:

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See Section 3 for details.

Aquatic Eco-Toxicity

Ingredient	96 hr LC50 fish,	48hr EC50 crustacea,	ErC50 algae,
	mg/l	mg/l	mg/l
Butyl methacrylate (97-88-1)	11.00 Pimephales promelas	32.00, Daphnia magna	57.00 (96 hr), Pseudokirchneriella subcapitata
Ethoxylated Bisphenol A Dimethacrylate-(41637-38-1)	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.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Observe all Federal, State and Local regulations when disposing of this substance. Reuse of empty drums of 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: D2B

US EPA Tier II Hazards

Fire:	No
Sudden Release of Pressure:	No
Reactivity:	No
Immediate:	Yes
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%):

Benzenamine, N,N,4-trimethyl-

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%):

Butyl methacrylate

Pennsylvania RTK Substances (>1%):

Butyl methacrylate

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:

H226 Flammable liquid and vapor
H315 Causes skin irritation.
H317 May cause an allergic reaction
H319 Causes serious eye irritation
H335 May cause respiratory irritation

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