

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: **Astron Clearsplint**
Revision date: 01.08.2014

KENTZLER
KASCHNER
DENTAL

01. Identification of the substance/mixture and of the company/undertaking

Trade name:

Astron Clearsplint

Article No. (REF)

26181 – 160 g Powder / 120 g Liquid
26184 – 320 g Powder / 240 g Liquid
26187 – 960 g Powder / 720 g Liquid

Relevant identified uses of the substance or mixture

Manufacturing of dental splints in a dental laboratory

Manufacturer

Astron Dental Corporation, 815 Oakwood Road, Unit G, Lake Zurich, IL 60047 (USA)

Supplier (importer/only representative/downstream user/distributor)

Kentzler-Kaschner Dental GmbH
Mühlgraben 36
D - 73479 Ellwangen

Telephone / Telefax / E-Mail

Phone: +49/7961/90 73 0 / FAX: +49/7961/52031 / E-Mail: info@kkd-topdent.de

Emergency Telephone Number:

Phone: +49/7961/90 73 0

02. Hazards identification

Classification of the substance or mixture

Indication of Danger

Inhalation and ingestion may cause nausea – intensive skin contact may cause rash

R-Phrases

R 43 May cause sensitisation by skin contact.
R 36 / R 37 / R 38 Irritating to eyes, respiratory system and skin.

Label elements



Xi – Irritant (only liquid)

R-Phrases

R 43 May cause sensitisation by skin contact.
R 36 / R 37 / R 38 Irritating to eyes, respiratory system and skin.

S-Sätze

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GHS Labelling



Signal word: Warning

H-Phrases

H 317 May cause an allergic skin reaction.
H 319 Causes serious eye irritation.
H 315 Causes skin irritation.
H 335 May cause respiratory irritation.

P-Phrases

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03. Composition/information on ingredients

Description of the mixture

Powder Component: Modified Ethyl Methacrylate Polymer
Liquid Component: Modified Ethyl Methacrylate Monomer

Hazardous ingredients

CAS-No.	Index-No.	EEC No.	Substance name	Content	R-Phrase(s)	Symbol
67-52-7		200-658-0	barbituric acid	< 10 %	R36/37/38	Xi
1565-94-2			Triethylenglycoldimethacrylate	< 1 %	R36/37/38	Xi

04. First aid measures

General Advice

Clean skin and clothes immediately.

After Inhalation

Move to fresh air. Inhalation can cause Nausea.

After Skin Contact

Wash skin with plenty of water and soap. Skin Contact can cause Rash.

After Eye Contact

Flush eyes for 15 minutes with water and call physician

After Swallowing

Drink plenty of water, Induce vomiting and call for immediate medical attention

After Ingestion

Ingestion can cause Nausea.

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Advice on Treatment

Treat and examine according to the symptom

Medical Conditions

Generally Aggravated by Exposure

Carcinogenicity

No

NTP

No

IARC Monographs

No

OSHA Regulated

Not required

05. Fire fighting measures

Suitable extinguishing Media

Chemical foam, carbon dioxide, dry chemicals, water, Fog

Special Fire Fighting Procedures

Safe distance. Cool exposed material with cold water mist.
Vapors are heavier than air and may travel to ignition source.

Unusual Fire and Explosion Hazards

Sealed container exposed to elevated temperatures may rupture explosively due to polymerization.
Vapors are heavier than air and may travel to ignition source.

Special Protective Equipment for Fire-Fighting

Inhalation protection.

06. Accidental release measures

Person-Related Precautions

Avoid inhalation of dust and vapors – evacuate rooms with high concentration of product vapors – keep away from ignition sources

Environmental Protection Measures:

Do not dispose into sewer or drain

Procedures for Cleaning / Absorption

Absorb spills with inert material. Dispose in accordance with all local, state and federal regulations

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07. Handling and storage

Advice on Safe Handling

Self contained breathing apparatus should be used

Advice on Protection against Fire and Explosion

Safe distance of heat and ignition sources

Requirements for Storage Rooms and Vessels

Excessive heat, store in a cool, dry place away from all sources of ignition

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, transfer to a suitable container for disposal.

Precautions to be taken in Handling and Storing

Store in a cool, dry place away from sources of ignition.

Other Precautions

Always use in accordance to package directions.

08. Exposure controls/personal protection

Additional Advice Relating to The Design of Production Equipment

Self contained breathing apparatus should be used, when vapors exceed 10 ppm

Personal Protective Equipment

Respiratory protection

When vapors exceed 10 PPM, a self contained breathing apparatus should be used.

Hand protection

Impervious, neoprene type gloves

Eye / Face protection

Safety goggles

General Protective Measures

Do not drink, eat or smoke

Other Protective Clothing or Equipment

Eyewash

Work/Hygienic Practise

Always practice good personal hygiene.

Ventilation

Local Exhaust: Concentration below 100 PPM

Mechanical (General): None

Special: None

Other: None

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09. Physical and chemical properties

Appearance
Physical state: Powder/Liquid
Colour: Clear, pale yellow
Odour: mild

Safety relevant basic data

Boiling point: 92 °C
Specific Gravity (H₂O=1): 1.005
Vapour Pressure (mm Hg): Form 7, mmHg at 160° C
Melting Point: N/A
Vapor Density (AIR=1): 1
Evaporation Rate (Butyl Acetate=1): N/A
Solubility in Water: Negligible

10. Stability and Reactivity

Conditions to Be Avoided

Excessive heat. No hazard when stored accordingly.

Substances to Be Avoided

Reducing and oxidizing agents. Can soften paint and rubbery surfaces.

Hazardous Decomposition or Byproducts

Carbon monoxide, carbon dioxide, smoke

Futher Information

Excessive heat may risk uncontrolled polymerization – product stable

11. Toxicological Information

Product not tested. Refer to danger- and safety instructions in point 3/15

Ingredients Relating to Workplace-Limits to Get Supervised

	Value/Range (mg/kg)	Species	Method
LD 50 oral			
LD 50 dermal			
LC 50 inhalational			

Corrosive and irritant effects

	Effect	Species	Method
Eye Skin	Prolonged exposure can lead to eye irritation and skin rash, nausea, headaches and in some cases unconsciousness.		

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Sensitization

	Effect	Species	Method
Skin	possible		
Respiratory System			

Effects after Repeated or Long-Term Exposition

Not known

Carcinogenicity, Mutagenicity, Genarative Hazards

Not known.

Experiences Made in Practice

Rating Relevant Observations

Not known

Further Observations

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General Remarks

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12. Ecological Information

Eliminability (Persistence and Degradability)

Physical-chemical

Procedure: Not known
Method of Analysis: Not known
Elimination Level: Not known
Validation: Not known
Additional Hints: Not known

Biological

Procedure: Not known
Method of Analysis: Not known
Elimination Level: Not known
Validation: Not known
Additional Hints: Not known

Performance in Environmental compartments

Mobility and Accumulation Capability: Not known
Additional Hints: Not known

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Ecotoxicity

Aquatic Toxicity	Test (Species/Duration)	Concentration	Method
fish toxicity:	Not known		
Daphnia toxicity:	Not known		
Algae toxicity:	Not known		
Bacteria toxicity:	Not known		

Performance in Sewage Plants

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Persistence and degradability

Not known

Behaviour in sewage plant

Not known

General Hints

Do not dispose larger amounts into sewer or drain.

13. Disposal Considerations

Identification

Always following package instructions. Dispose in accordance with all local, state and federal regulations.

Waste Disposal Method

Do not dispose into sewer or drain, incinerate liquid in proper equipment. Dispose in accordance with all local, state and federal regulations.

Packaging

Contaminated packaging

Packages have to be drained carefully, absorb spills with inert materials and transfer to a suitable container for disposal.

14. Transport Information

Land Transport ADR/RID

Remarks

Not a hazardous product

River Transport ADN/ADNR

Remarks

Not a hazardous product

Sea Transport IMDG/GGV Sea

Remarks

Not a hazardous product

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Air Transport ICAO-TI and IATA-DGR

Remarks

Not a hazardous product

15. Regulatory Information

Labeling According to EC-Directives

Symbols and hazard designations of the product

Xi – Irritant – only liquide

R-Phrases

R 43 May cause sensitisation by skin contact.
R 36 / R 37 / R 38 Irritating to eyes, respiratory system and skin.

S-Sätze

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H-Phrases

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H 319 Causes serious eye irritation.
H 315 Causes skin irritation.
H 335 May cause respiratory irritation.

P-Phrases

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National Regulations

Water Hazard Class (WGK)

Class: 0

16. Further Information

Issuing Department for Material Safety Data Sheet

Product Development / Quality Management

Source of Most Essential Data

Producers' Material Safety Data Sheet

Notes

The information contained herein is based on the present state of our knowledge and on our experiences with the product. The material safety data sheet is strictly intended for risk minimizing when handling the product. The information characterizes exclusively with regard to safety aspects and does not represent a guarantee of the properties of the product within the meaning of our general terms and conditions. The information does not dispense the user from his duties of care with respect to the observance of present laws, regulations and terms.