SAFETY DATA SHEET

SECTION 1. INDENTIFICATION

Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

716-871-1161
800-828-7626
CHEMTREC: 800-424-9300

Product Name: Summer Shades Biocryl (Rigid Polyvinyl
Product Number: Chloride) 021-086, 021-087, 21-089

Date Prepared: 07/12/17

SECTION 2. HAZARDOUS IDENTIFICATION

Classification

Serious eye damage / eye irritation	Category 2 (H319)
Carcinogenicity	Category 2 (H351)
Specific target organ toxicity (single exposure)	Category 3 (H335)
Aspiration toxicity	Category 1 (H304)

Label Elements



Hazard Statements
H304 – May be fatal I swallowed and enters airways
H319 – Causes serious eye irritation
H335 – May cause respiratory irritation
H351 – Suspected of causing cancer

Precautionary Statements
Wear protective gloves, protective clothing, eye protection, and face protection
Do NOT induce vomiting

Hazards not otherwise classified (HNOC)
May be harmful if swallowed
May be harmful if contact with skin
Combustible liquid

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Weight %	Trade Secret	Note
Isophorone	78-59-1	30 – 60	*	
Naphtha (petroleum), heavy aromatic	64742-94-5	10 – 30	*	
Ethyl 3 – Ethoxypropionate	763-69-9	5 – 10	*	
Petroleum Naphtha, light aromatic	64742-95-6	1 – 5	*	
1,2,4 – Trimethylbenzene (constituent)	95-63-6	1 – 5	*	1
Naphthalene (constituent)	91-20-3	1 – 5	*	1
1.3.5 – Trimethylbenzene (constituent)	108-67-8	< 0.5	*	1
Cumene (constituent)	98-82-8	< 0.5	*	1

* The exact percentage (concentration) of composition has been withheld as a trade secret.
NOTE 1 – Type of chemical: Constituent

SECTION 4. FIRST AID MEASURES

General Advice
Show this safety data sheet to the doctor in attendance.

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation develops and persists.

Skin Contact
Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

Inhalation
Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

Ingestion
DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most Important Symptoms and effects, both acute and delayed
None under normal use conditions.

Indication of any immediate medical attention and special treatment needed
Notes to physician – Treat symptomatically

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Foam, Carbon Dioxide (CO2), dry chemical, and water spray.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Fire Fighting Procedures

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray. Sealed containers may rupture when heated.

Unusual Fire / Explosion Hazards

Thermal decomposition can lead to release of irritating gases and vapors. May emit toxic fumes under fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Remove all sources of ignition. Ventilate the area. Avoid contact with eyes, skin, and clothing. Avoid breathing dust or vapor. Evacuate personnel to safe areas. Keep people away from and upwind of spill / leak.

Environmental Precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches, and waterways. Local authorities should be advised if significant spillages cannot be contained.

Methods and Material for Containment and Cleaning Up

Contain spillage and then collect with non-combustible absorbent material, (e.g.: sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Use clean non-sparking tools to collect absorbed material.

SECTION 7. HANDLING & STORAGE

Handling

Use personal protective equipment as required. Do not eat, drink, or smoke when using this product. Ensure adequate ventilation.

Storage

Keep containers tightly closed in a dry, cool, and well ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep container closed when not in use. Keep out of reach of children.

Incompatible Products

Strong acids, strong bases, strong oxidizing, and reducing agent.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS #	ACGIH TLV
Isophorone	78-59-1	Ceiling – 5ppm
Naphthalene (constituent)	91-20-3	TWA – 10 ppm, STEL – 15 ppm Skin
Cumene (constituent)	98-82-8	TWA – 50 ppm

Component	CAS #	OSHA PEL
Isophorone	78-59-1	TWA – 4 ppm, 23 mg/m³, 25 ppm, 140 mg/m³
Naphthalene (constituent)	91-20-3	TWA – 10 ppm, 50 mg/m³, STEL – 15 ppm, 75 mg/m³
Cumene (constituent)	98-82-8	TWA – 50 ppm, 245 mg/m³ Skin

Component	CAS #	Ontario TWAEV
Isophorone	78-59-1	CEV – 5ppm
Ethyl 3 – Ethoxypropionate	763-69-9	TWA – 50 ppm, 300 mg/m³
Naphthalene (constituent)	91-20-3	TWA – 10 ppm, STEL – 15 ppm Skin
Cumene (constituent)	98-82-8	TWA – 50 ppm

Component	CAS #	Mexico OEL (TWA)
Isophorone	78-59-1	Peak – 5ppm, 25 mg/m³
Naphthalene (constituent)	91-20-3	TWA/LMPE-PPT – 10 ppm, 50 mg/m³, STEL/LMPE-CT – 15 ppm, 75 mg/m³
Cumene (constituent)	98-82-8	TWA/LMPE-PPT – 50 ppm, 245 mg/m³ STEL/LMPE – CT – 75 ppm, 365 mg/m³

Engineering Measures

Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc. Controlled ventilation means air is supplied or removed by a powered fan. Users are advised to consider national Occupational Exposure Limits or other equivalent values. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye / Face Protection

Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear suitable face shield. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron, or coveralls, as appropriate to prevent skin contact.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area, and clothing is recommended.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Form –** Liquid
- **Appearance –** Color Liquid
- **Odor –** Characteristic
- **Odor Threshold –** No information available
- **Flash Point –** Setaflash closed cup
- **Photo chemically Reactive –** Yes
- **Weight Per Gallon (lbs/gal) –** 8.44

No Data Available
PH, Melting point, Freezing Point, Boiling Point, Boiling Range, Evaporation Rate, Upper Flammability Limit, Lower Flammability Limit, Vapor Pressure, Vapor Density, Water Solubility, Solubility in other solvents, Partition Coefficient (n-octanol/water), Auto-ignition Temperature, Decomposition Temperature, Kinematic Viscosity, Dynamic Viscosity, Explosive Properties, and Oxidizing Properties

VOC by Weight % (less water) – 69.81
VOC by Volume % (less water) – 69.81
VOC lbs/gal (less water) – 5.9
VOC grams/liter (less water) – 706.88

SECTION 10. STABILITY & REACTIVITY

Conditions to Avoid – Keep away from open flames, hot surfaces, and sources of ignition.
Material to Avoid – Strong acids, strong bases, strong oxidizing agents, and reducing agent.
Hazardous Decomposition Products – Thermal decomposition can lead to release of irritating gases and vapors, Carbon Dioxide (CO2), and Carbon Monoxide.
Hazardous Polymerization – None under normal processing.
Chemical Stability – Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Routes of Exposure – Inhalation, Eye Contact, Skin Contact, Ingestion
There is no data for these products

Component	Oral LD50	NTP	OSHA
Isophorone	1870 mg/kg (rat)		
Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (rat)		
Ethyl 3 – Ethoxypropionate	3200 mg/kg (rat)		
Petroleum Naphtha, light aromatic	8400 mg/kg (rat)		
1,2,4 – Trimethylbenzene (constituent)	3400 mg/kg (rat)		
Naphthalene (constituent)		Reasonably Anticipated	X
Cumene (constituent)			X

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix – Oral 3,306.00 mg/kg **Dermal** 2,442.00 mg/kg mg/l **Inhalation-dust/mist** 14.00 mg/l

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Not applicable

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

Not applicable

SECTION 15. REGULATORY INFORMATION (non-mandatory)

California Prop. 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

- Naphthalene (constituent) – Carcinogen
- Cumene (constituent) – Carcinogen

Canada	**NPRI – National Pollutant Release Inventory**
Isophorone	Part 4 Substance as set out in Section 65 of the List of Toxic

SECTION 16. OTHER INFORMATION (non-mandatory)

Not applicable