

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION



Great Lakes Orthodontics
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Tonawanda, NY 14150

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800-828-7626
CHEMTREC: 800-424-9300

Product Name: EVA Based Clear Mouthguard Material
Product Number: 021-030, 021-031, 021-032, 021-049, 021-101
025-012, 025-013, 025-014, 025-015

Effective Date: 10/9/17

SECTION 2. HAZARDOUS IDENTIFICATION

- This product as sold is an article that does not release substances and is therefore non-hazardous; however, it may be composed of hazardous components and the user should be aware of any hazards indicated in this SDS, which apply to those hazardous components, in case his/her use may lead to exposure to those components through dust, molten product, vapors, or other forms.

OSHA/HCS Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200).

Classification of the substance or mixture

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 99%.

Signal Word

Warning

Hazard Statements

Suspected of causing cancer.



Precautionary Statements

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.

Response

If exposed or concerned, get medical attention.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with all local, regional, national, and international regulations.

Hazards not otherwise classified

None known.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Hazardous Components</u> | <u>CAS#</u> | <u>EC Number</u> | <u>%</u> |
|-----------------------------|-------------|------------------|----------|
| Vinyl Acetate | 108-05-4 | 203-545-4 | 0 – 0.3 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Suitable extinguishing media for the surrounding fire should be used.

Special Fire Fighting Procedures

Combustible product that may release, but not limited to, carbon monoxide, carbon dioxide, vinyl acetate, and acetic acid. Use self-contained breathing apparatus when fighting fires.

Unusual Fire / Explosion Hazards

None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Non-Emergency Personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Responders

If specialized clothing is required to deal with the spillage, take note any information in Section 8 on suitable and unsuitable materials. See also the information in “Non-emergency Personnel”.

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Small Spill

Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large Spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7. HANDLING & STORAGE

Handling Precautions

Put on appropriate personal protective equipment (see Section 8). Avoid exposure and obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Storage Precautions

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Vinyl Acetate

Exposure Limits

ACGIH TLV (United States, 3/2015)

TWA: 10 ppm 8 hours

TWA: 35 mg/m³ 8 hours

STEL: 15 ppm 15 minutes

STEL: 53 mg/m³

OSHA PEL 1989 (United States, 3/1989)

TWA: 10 ppm 8 hours

TWA: 30 mg/m³ 8 hours

STEL: 20 ppm 15 minutes

STEL: 60 mg/m³ 15 minutes

NIOSH REL (United States, 10/2013)

CEIL: 4 ppm 15 minutes

CEIL: 15 mg/m³ 15 minutes

Engineering Controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side shields.

Hand Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. If contact is possible, the following protection should be worn unless the assessment indicates a higher degree of protection: safety glasses with side shields.

Body Protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Physical State** – Solid (Plastic mass)
- **Color** – Various
- **Odor** – Ester (slight)
- **Flash Point** – Closed Cup: 260 °C (500 °F)
- **Relative Density** – 0.91 to 0.97
- **Solubility** – Insoluble in the following materials: cold water and hot water.

Not Available

PH, Melting Point, Boiling Point, Lower and Upper Explosive Limits, Vapor Pressure, Vapor Density, Solubility in Water, Partition coefficient: n-octanol/water, Auto-ignition temperature, Viscosity

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – No test data

Stability – Stable at normal temperatures and storage conditions.

Conditions to Avoid – No test data

Incompatibility (Materials to Avoid) – No test data

Hazardous Decomposition Products – Should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Vinyl Acetate

- **LC50 Inhalation Vapor** – 11400 mg/m³, rat, 4 hours
- **LC50 Dermal** – 2335 mg/kg, rabbit
- **LC50 Oral** – 2900 mg/kg, rat

Classification:

Vinyl Acetate

- **OSHA** –
- **IARC** – 2B
- **NTP** –

Carcinogenicity

Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Vinyl Acetate

Acute LC50

- 10000 – 10000 µg/l
- Marine Water
- Crustaceans, Crangon crangon, Larvae
- 48 Hours

Acute LC50

- 14000 µg/l
- Fresh Water
- Fish – Pimephales promelas
- 96 Hours

Bio-accumulative Potential

- LogPow – 0.73
- BCF – 3.16
- Potential - low

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Dispose of in compliance with governmental regulation (state and federal). Dispose of container and unused contents in accordance with federal, state, and local requirements. For EU Member States, please refer to any relevant community provisions relating to waste, In their absence, it is useful to remind the user the national or regional provisions may be in force.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

Not regulated, non-hazardous material: DOT < IATA < IMO (IMDG).

SECTION 15. REGULATORY INFORMATION (non-mandatory)

United States Federal Regulations

Clean Air Act: HAP/ODS: This product contains no HAP's or ODS.

Clean Water Act: Priority Pollutant: This product contains no chemicals listed under the US Clean Water Act Priority Pollutant and hazardous Substance List.

FDA: This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food-packaging additive.

Occupational Safety and Health Act: This product is not considered to be hazardous under the OSHA Hazard Communication Standard.

RCRA: This product contains no chemicals considered to be hazardous waste under RCRA (40 CFR 261).

SARA Title III Section 302 (RQ): This product contains no chemicals regulated under Section 302 as extremely hazardous substances.

SARA Title III Section 302 (TPQ): This product does not contain chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification (CERCLA List).

SARA Title III Section 311 – 312: This product is not considered to be hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311 – 312 (40 CFR 370).

SARA Title III Section 313: This product does not contain the following chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA Sectopm 8(b) Inventory: This product complies with US TSCA Requirements.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

States Regulations

The components to this product are listed on the appropriate applicable state regulations.

International Regulations

CDSL (Canadian Inventory on Canadian Transitional List): Ethylene Vinyl Acetate Copolymer – CAS # 24937-78-8, not controlled under WHMIS.

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

- **Health** – 0
- **Flammability** – 0
- **Reactivity** – 0

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

* = Chronic Health Hazard