



SAFETY DATA SHEET

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

1. PRODUCT IDENTIFICATION

Trade Name(s): ViperFlex Polyacrylate Gel
Product Description: Mixture – monomer for polymerization
Synonyms: N/A
CAS No: N/A

Supplier:
EPRO Services, Inc.
PO Box 347
Derby, KS 67037
800-882-1896 (8:00am – 5:00pm CST)

2. HAZARD(S) IDENTIFICATION

Classification according to Directive 199/45/EC: Not classified
Label elements: None
Other hazards
PBT and vPvB assessment: Does not fulfill the criteria according to Annex XIII of Reach

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances: This product is not a substance.
Mixtures: Product is a mixture

Hazardous components

Polyethylene glycol diacrylate

Concentration / -range: <20%

EC-No: Polymer

REACH Registration No: Not applicable (polymer)

Classification according to Directive 67/548/EEC: Xi;R36

Classification according to Regulation (EC) No. 1272/2008: Eye Irrit. 2; H319

N.N'-methylenediacrylamide

Concentration / -range: <5%

EC-No: 203-750-9

Classification according to Directive 67/548/EEC: Xn;R20/22

Classification according to Regulation (EC) No. 1272/2008: Acute Tox. 4; H302, Acute Tox. 4; H332

4. FIRST-AID MEASURES

Inhalation: No hazards which require special first aid measures. Call a physician if symptoms occur.

Skin contact: Wash off with soap and water.

Eye contact: If in eyes, rinse with water for 15 minutes. Call a physician if irritation persists.

Ingestion: Do not induce vomiting unless directed to do so by a physician or poison control center. Get medical attention immediately if symptoms occur.

Most important symptoms and effects, both acute and delayed: May cause eye irritation with susceptible persons.

Indication of any immediate medical attention and special treatment needed: None.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing media: None

Hazardous decomposition products: Thermal decomposition may produce nitrogen oxides (NO_x), carbon oxides (CO_x).

Protective measures for firefighters: Wear full protective clothing and self-contained breathing apparatus.

Other information: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes.

Protective equipment: Safety glasses with side-shields.

Emergency procedures: Keep people away from spill/leak.

Environmental precautions: Do not allow contact with soil, surface, or ground water.

Methods and material for containment and cleaning up: Soak up with inert absorbent material. Prevent further leakage or spillage. Small spills: Soak up with inert absorbent material. Large spills: Do not flush with water. Residues: After cleaning, flush away traces with water.

Reference to other sections: See Section 7 and 8.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes.

Storage: Keep in a dry, cool, and well-ventilated place.

Specific end use(s): Monomer for polymerization.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits: None

Derived No and Minimum Effect Levels (DNELs/DMELs): None

Predicted no-effect concentrations (PNECs): None

Exposure controls

Appropriate engineering controls: No required except in case of aerosol formation.

Individual protection measures

Eye/face protection: Safety glasses with side-shields.

Skin protection: Full protective suit.

Hand protection: PVC or other plastic material gloves.

Respiratory protection: Not required, except in case of aerosol formation.

Additional advice: Wash hands after handling, before breaks, and at end of workday.

Environmental exposure controls: Do not allow contact with soil, surface, or ground water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Odor Threshold: Not applicable

Melting point/freezing point: <0°C

Flash point: Does not flash

Vapor pressure: 2.3 kPa @ 20°C

Relative density: 1.1 – 1.3

Partition coefficient: No data available

Viscosity: See Technical Bulletin

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits: Not expected to create explosive atmosphere

Explosive properties: Not expected to be explosive based on the chemical structure

Oxidizing properties: Not expected to be oxidizing based on the chemical structure

Odor: Slight

pH: 6-8

Initial boiling point and boiling range: >100°C

Evaporation rate: No data available

Vapor density: Equivalent to water (~0.8 g/l)

Solubility: Completely miscible

Autoignition temperature: No data available

Decomposition temperature: No data available

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions. Polymerization is initiated by free radicals, peroxides.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Keep away from oxidizing agents, strongly alkaline and strongly acid materials in to avoid exothermic reactions.

Conditions to avoid: Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Incompatible materials: Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous decomposition products: Thermal decomposition may produce nitrogen oxides (NO_x), carbon oxides (CO_x).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Information on the product as supplied

Acute oral toxicity: LD₅₀/oral/rat > 2000 mg/kg (Estimated)

Acute dermal toxicity: LD₅₀/dermal/rat > 2000 mg/kg (Estimated)

Acute inhalation toxicity: The product is not expected to be toxic by inhalation.

Skin corrosion/irritation: Not irritating

Serious eye damage/eye irritation: May cause slight eye irritation.

Respiratory/skin sensitization: The product is not expected to be sensitizing.

Mutagenicity: Not mutagenic.

Carcinogenicity: Not carcinogenic.

Reproductive toxicity: Not toxic for reproduction.

STOT - single exposure: No known effects.

STOT - repeated exposure: No known effects.

Aspiration hazard: No hazards resulting from the material as supplied.

Relevant information on hazardous components

Polyethylene glycol diacrylate

Acute oral toxicity: No data available.

Acute dermal toxicity: No data available.

Acute inhalation toxicity: No data available.

Skin corrosion/irritation: Not irritating (OECD 404).

Serious eye damage/eye irritation: Severely irritating to eyes.

Respiratory/skin sensitization: No data available.

Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT - single exposure: No data available.

STOT - repeated exposure: No data available.

Aspiration hazard: No known effects.

N,N'-methylenediacrylamide

Acute oral toxicity: LD50/oral/rat = 390 mg/kg

Acute dermal toxicity: No data available.

Acute inhalation toxicity: Harmful by inhalation.

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory/skin sensitization: No data available.

Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

STOT - single exposure: No data available.

STOT - repeated exposure: No data available.

Aspiration hazard: No known effects

12. ECOLOGICAL INFORMATION (non-mandatory)

Toxicity

Information on the product as supplied

Acute toxicity to fish: LC50/Fish/96 hours > 100 mg/L (Estimated)

Acute toxicity to invertebrates: EC50/Daphnia/48 hours > 100 mg/L (Estimated)

Acute toxicity to algae: IC50/Algae/72 hours > 100 mg/L (Estimated)

Chronic toxicity to fish: No data available.

Chronic toxicity to invertebrates: No data available.

Toxicity to microorganisms: No data available.

Effects on terrestrial organisms: No data available.

Sediment toxicity: No data available.

Relevant information on the hazardous components

Polyethylene glycol diacrylate

Acute toxicity to fish: No data available.
Acute toxicity to invertebrates: No data available.
Acute toxicity to algae: No data available.
Chronic toxicity to fish: No data available.
Chronic toxicity to invertebrates: No data available.
Toxicity to microorganisms: No data available.
Effects on terrestrial organisms: No data available.
Sediment toxicity: Exposure to sediment is unlikely.

N,N'-methylenediacrylamide

Acute toxicity to fish: LC50/Oncorhynchus mykiss/96 hours = 240 mg/L
Acute toxicity to invertebrates: No data available.
Acute toxicity to algae: No data available.
Chronic toxicity to fish: No data available.
Chronic toxicity to invertebrates: No data available.
Toxicity to microorganisms: No data available.
Effects on terrestrial organisms: No data available.
Sediment toxicity: No data available.

Persistence and degradability

Information on the product as supplied

Degradation: No data available.
Hydrolysis: No data available.
Photolysis: No data available.

Relevant information on the hazardous components

Polyethylene glycol diacrylate

Degradation: No data available.
Hydrolysis: No data available.
Photolysis: No data available

N,N'-methylenediacrylamide

Degradation: No data available.
Hydrolysis: No data available.
Photolysis: No data available.

Bioaccumulative potential

Information on the product as supplied

Partition co-efficient (Log Pow): No data available.
Bioconcentration factor (BCF): No data available.

Relevant information on the hazardous components:

Polyethylene glycol diacrylate

Partition co-efficient (Log Pow): No data available.
Bioconcentration factor (BCF): No data available.

N,N'-methylenediacrylamide

Partition co-efficient (Log Pow): No data available.

Bioconcentration factor (BCF): No data available.

Mobility in soil

Information on the product as supplied

Exposure to soil is not to be expected.

Koc: No data available.

Relevant information on the hazardous components:

Polyethylene glycol diacrylate

Koc: No data available.

N,N'-methylenediacrylamide

Koc: No data available.

Results of PBT and vPvB assessment

PBT assessment: Does not fulfill the criteria according to Annex XIII of REACH.

vPvB assessment: Does not fulfill the criteria according to Annex XIII of REACH.

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste from residues / unused products: Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging: Dispose of in accordance with local regulations.

Recycling: If recycling is not practicable, dispose of in compliance with local regulations.

14. TRANSPORT INFORMATION (non-mandatory)

Land transport (ADR/RID): Not classified

Sea transport (IMDG): Not classified

Air transport (IATA): Not classified

15. REGULATORY INFORMATION (non-mandatory)

Safety, health, and environmental regulations/legislation specific for the substance or mixture: All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Abbreviations Xi - Irritant Xn - Harmful

Acute Tox. 4 = Acute toxicity Category Code 4

Eye Irrit. 2 = Serious eye damage/eye irritation Category Code 2

R-Phrases

R36 - Irritating to eyes

R20/22 - Harmful by inhalation and if swallowed

H-Phrases

H302 - Harmful if swallowed

H319 - Causes serious eye irritation H332 - Harmful if inhaled

Training advice: Do not handle until all safety precautions have been read and understood.

This information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designated only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.