



SAFETY DATA SHEET

Issue Date 7/7/2015

Revision Date 3/18/2016

Version 1

1. IDENTIFICATION

Product identifier

Product Name: Heavy Duty Tire Sealant

Other means of identification

Product code: F-1001

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Tire Sealant

Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Address

FRONTIER PERFORMANCE LUBRICANTS INC

PO BOX 1777

LODI, CA 95241

Phone: (800)-807-4496

Fax: (209)-334-6408

Emergency telephone number

Emergency Telephone: PERS (800)-633-8253

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Target organs – repeated exposure, Oral (Category 2), Kidney, H373 n

GHS Label elements, including precautionary statements

Pictogram:



Signal word(s)

Warning

Hazard Statement(s)

H302

Harmful if swallowed

H373

May cause damage to organs (kidney) through prolonged or repeated exposure if swallowed.

Precautionary statements(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray

P264

Wash skin thoroughly after handling

P270

Do not eat, drink, or smoke when using this product.

P301+P312

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P314

Get medical advice/attention if you feel unwell.

P501

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	CAS#	EINECS#/ELINCS#	Formula	Molecular Weight
Ethylene glycol	<50	107-21-1	201-473-3	C ₂ H ₆ O ₂	62.07 g/mol

*~50% of mixture. Remaining proprietary components not at reportable concentrations.

Synonyms: 1,2-Ethanediol

4. FIRST AID MEASURES**Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE-FIGHTING MEASURES**Extinguishing media**

N/A - Non-flammable

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures.**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safety. See section 8 for recommendations on the use of personal protection equipment.

Environmental precautions

Prevent further leakage or spillage. Do not let product enter drains.

Methods and materials for containment and cleaning up.

Soak up with inert absorbent material and dispose in a suitable container. Dispose of waste and cleanup materials in accordance with regional/local regulations.

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. For precautions see section 2

Conditions for safe storage, including and incompatibilities

Store in a cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

Specific end use(s)

Apart from the use listed in section 1 no other specific uses are recommended.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters (Ethylene glycol)****Components with workplace control parameters**

Component	CAS-No	Value	Control parameters	Basis
Ethylene glycol*	107-21-1	C	100mg/m ³	USA. ACGIH TLV
		Eye & Upper Respiratory Tract Irritation. Not classifiable as a human carcinogen		
		C	100mg/m ³	USA. ACGIH TLV
		Upper Respiratory Tract irritation, Eye irritation. Not classifiable as human carcinogen.		

* <50% of mixture. Remaining components not at reportable concentrations.

Application Area	Exposure Routes	Health Effect	Value
Workers	Inhalation	Long-term local effects	35mg/m ³
Workers	Skin contact	Long-term systemic effects	106mg/Kg BW/d
Consumers	Inhalation	Long-term local effects	7mg/m ³
Consumers	Skin contact	Long-term systemic effects	53mg/Kg BW/D

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	1.53mg/kg
Marine water	1mg/L
Fresh water	10mg/L
Marine Sediment	3.7mg/Kg
Fresh water sediment	37mg/Kg
Sewage treatment plant	199.5mg/L
Aquatic intermittent release	10mg/L

Exposure controls (Ethylene glycol)

Appropriate engineering control Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

Personal protective equipment

Eye/face protection

Inhalation

Skin

Protect from splashing; wear safety glasses when handling.

General ventilation is expected to be adequate.

Handle material to avoid skin contact. Wash with water as required.

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Orange, viscous, heterogeneous mixture
Odor	Essentially odorless
Odor threshold	No data available
pH	8-10
Melting point/freezing point	-45°C
Initial boiling point	No Data Available
Flash point	Non-flammable
Evaporation rate	No Data Available
Flammability (solid/gas)	Non-flammable
Upper/lower flammability or explosive limit	Not applicable
Vapor pressure	No Data Available
Vapor density	No Data Available
Density	1.1088 g/mL
Water solubility	Liquid constituents miscible with water. Solid constituent's insoluble.
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	Non-flammable
Decomposition temperature	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

No Data Available

Chemical Stability

Stable under recommended storage and usage conditions.

Possible hazardous reactions

No Data Available

Conditions to avoid No Data Available
Incompatible materials: Strong oxidizing agents, Strong acids and Strong bases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Ethylene glycol)	LD50 Oral – Rat – 4,700mg/Kg
Inhalation	No Data Available.
Skin corrosion/irritation	Skin Rabbit – No skin irritation
Serious eye damage/eye irritation	Eyes Rabbit – Mild eye irritation - 24hrs
Respiratory or skin sensitization	No Data Available
Germ cell mutagenicity	No Data Available
Carcinogenicity	This product is or contains a component that is probably not carcinogenic based on its IARC, ACGIH, NTP or EPA classification.
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity	Laboratory experiments have shown teratogenic effects. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Specific target organ toxicity – repeated exposure	Oral – may cause damage to organs through prolonged or repeated exposure. – Kidney
Aspiration hazard	No Data Available
Additional information	RTECS: KW2975000

When ingested early symptoms mimic alcohol inebriation followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany and sever acidosis. Without treatment, death may occur in 8 to 24 hours. Victims who survive the initial toxicity period usually develop renal failure along with brain and liver damage. Exposure to and/or consumption of alcohol may increase toxic effects.

Central nervous system – Irregularities – Based on Human Evidence

12. ECOLOGICAL INFORMATION

TOXICITY

Toxic to fish	LC50 – Oncorhynchus mykiss (rainbow trout) – 18,500 mg/L – 96 h LC50 – Leuciscus idus (Golden orfe) - >10,000 mg/L – 48 h NOEC – Pimephales promelas (fathead minnow) – 32,000 mg/L – 7 d NOEC - Pimephales promelas (fathead minnow) – 39,140 mg/L – 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 – Daphnia magna (Water flea) – 74,000 mg/L – 24 h NOEC – Daphnia (water flea) – 24,000 mg/L – 48 h LC50 – Daphnia magna (water flea) – 41,000 mg/L – 48 h
Persistence and degradability	No Data Available
Bioaccumulative potential	Does not bioaccumulate
Mobility in soil	No Data Available
Results of PBT and vPvB assessment	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects	No Data Available

13. DISPOSAL CONSIDERATIONS

Waste residues

Users should review their operations with respect to applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposal.

Product containers

Users should review their operations with respect to applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposal.

14. TRANSPORT INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

15. REGULATORY INFORMATION

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA 313 Components	The following components are subject to reporting levels established by SARA Title III, Section 313: Ethylene glycol, CAS-No. 107-21-1
SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know Components	Ethylene Glycol, CAS-No. 107-21-1
Pennsylvania Right to Know Components	Ethylene Glycol, CAS-No. 107-21-1
New Jersey Right to Know Components	Ethylene Glycol, CAS-No. 107-21-1
California Prop. 65 Components	Ethylene Glycol, CAS-No. 107-21-1

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

Issue Date	7/7/2015
Revision Date	3/18/2016
Revision Note	Not applicable

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet