



SAFETY DATA SHEET

622 Racing Brake Fluid

SECTION 1: Identification

Product identifier Tradename

622 Racing Brake Fluid

Relevant identified uses of the substance or mixture Hydraulic fluid

Uses advised against No special

Distributed by

VP Racing Fuels, Inc.

SECTION 2: Hazard(s) identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) *Classification of the substance or mixture*

Repr. 2; H361d, Suspected of damaging the unborn child.

Label elements

Hazard pictogram(s)



Signal Word **WARNING**



Suspected of damaging the unborn child.

Safety statement(s) General

P101, If medical advice is needed, have a product container or label at hand.

Prevention

P201 Obtain special instructions before use, P202, Do not handle until all safety precautions have been read and understood. P280, Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P310, IF SWALLOWED: Immediately call a POISON CENTER/doctor. P308+P313: IF exposed or concerned: Get medical attention P305+P351+P338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.

Storage

P405, Store locked up.

Disposal

P501, Dispose of contents/container to an approved waste disposal plant.

Hazardous substances Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate

Other hazards

Additional labeling Not applicable

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and vPvB.

The product is not classified as combustible but will burn.

SECTION 3: Composition/Information on Ingredients

Mixtures

Product/Ingredient name	Identifiers	%w/w	Classification	Note
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	CAS No.: 30989-05-0 EC No.: 250-418-4 REACH No.: 01-2119462824-33-XXXX Index No.:	30-90%	Repr. 2, H361d	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8 if these are available.

Other information No special

SECTION 4: First-aid measures

Description of first aid measures General

information

If breathing is irregular, drowsiness, loss of consciousness, or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or another drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into the fresh air and stay with him/her. If recovery is not rapid, seek medical attention

Skin contact

Immediately remove contaminated clothing and shoes. Ensure that skin, which has been exposed to the material, is washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvent or thinners.

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water (20-30°C) for at least 5 minutes. If any irritation persists, seek medical assistance and continue flushing during transport.



Ingestion

Provide plenty of water for the person to drink and stay with him/her. Seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of or choking on vomited material. If medical attention is delayed, give adults 90-120 ml hard liquor such as 40% v/v spirits. Give children proportionately less at a rate of 2 ml/kg body weight.

Burns Not applicable

The most important symptoms and effects, both acute and delayed The most important symptoms are described in sections 2 and 11.

Indication of any immediate medical attention and special treatment needed No special

Information to medics Has this safety data sheet or the label from this product. Treat symptomatically. There is no specific antidote.

SECTION 5: Fire-fighting measures

Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire. However, they may be used to cool adjacent containers.

Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g., dangerous decomposition compounds are produced in the event of a fire. These are Carbon oxides (CO / CO₂).

Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Prevent unnecessary personnel from entering the area of spillage. When cleaning up, large spills appropriate protective clothing should be worn - see section 8. Avoid direct contact with spilled substances. Avoid inhalation of vapors from spilled material.

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials and dispose of it following dangerous waste regulations.

Use sand, sawdust, earth, vermiculite, and diatomaceous earth to contain and collect non-combustible absorbent materials and place in containers for disposal, according to local regulations. Wherever possible, cleaning should be performed with normal cleaning agents. Avoid the use of solvents.

Reference to other sections

See section on "Disposal considerations" concerning the handling of waste.

See section on 'Exposure controls/personal protection' for protective measures.



Revision date: 10/15/2020
Revision 01

SECTION 7: Handling and storage

Precautions for safe handling

Avoid any method of handling that generates mists or aerosols. Avoid direct contact with the product. Do not eat, drink, or smoke when handling this product.

See section on 'Exposure controls/personal protection' for information on personal protection.

Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. It must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature

Room temperature 15 to 30°C

Incompatible materials

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

Specific end use(s)

This product should only be used for applications quoted in section 1.2

Users are referred to the specification SAE J1707 "Service maintenance of brake fluids."

SECTION 8: Exposure controls/personal protection

Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Do not eat, drink or smoke in the workplace

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during the use of the product. Avoid inhalation of gas or dust.

Hygiene measures

In between the use of the product and the working day, all exposed areas of the body must be washed thoroughly. Always wash hands, forearms, and face.

Measures to avoid environmental exposure

Keep spill absorbent materials available in the workplace. If possible, clean up any spills immediately.

Individual protection measures, such as personal protective equipment

Generally

Use only protective equipment with a recognized certification mark, e.g., the UL mark.

Respiratory Equipment

No specific requirements



Skin protection

No specific requirements




Revision date: 10/15/2020
Revision 01

Hand protection

Worksituation	Material	Glove thickness (mm)	Breakthroughtime (min.)	Standards	
	Nitrile	0.2	>480	EN374-2, EN374-3, EN388	
	Butyl	0.3	>480	EN374-2, EN374-3, EN388	

Eye protection

Worksituation	Recommended	Standards	
	Wearsafetyglasseswithsideshields.	EN166	

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Color Amber

Odour Mild

Odor threshold (ppm) Testing not relevant or not possible due to the nature of the product.

pH 7-9.5

Density (g/cm³) 1.04-1.09 (20.00 °C)

Viscosity (40°C) 5-15 centistokes (20.00 °C)

Phase changes

Melting point (°C) < -50

Boiling point (°C) >300 °C

Vapor pressure 1.00 millibar (20.00 °C)

Vapor density Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C) 300

Evaporation rate (n-butylacetate = 100) 0.01

Data on fire and explosion hazards Flash point(°C)>120 °C

Ignition (°C) >280 °C

Auto flammability (°C) Testing is not relevant or not possible due to the product's nature.

Explosion limits (% v/v) Testing is not relevant or not possible due to the product's nature.

Solubility

Solubility in water Soluble

n-octanol/water coefficient of 1.50

Other information Solubility in fat (g/L) Testing not relevant or not possible due to the nature of the product



SECTION 10: Stability and reactivity

Reactivity

No hazardous reactions if stored and handled as indicated.

Chemical stability

The product is stable under the conditions noted in the section "Handling and storage."

Possibility of hazardous reactions No special

Conditions to avoid No special

Incompatible materials

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

Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

Information on toxicological effects of Acute toxicity

Based on available data, the classification criteria are not met.

Oral Based on read-across data, toxicity is low (LD 50 Rat >5000 mg/kg). Sparse experience indicates toxicity in man could be greater.

Inhalation - Not applicable due to the low vapor pressure of the product.

Dermal - Based on read-across data, toxicity is low (LD 50 Rabbit >3000 mg/kg).

General-Although this product's acute toxicity is low if significant amounts are absorbed, there is a risk of renal damage, leading to kidney failure or even death.

Other overexposure symptoms include Central Nervous System effects, abdominal discomfort, metabolic acidosis, headaches, or nausea.

Skin corrosion/irritation

Based on available data, the classification criteria are not met. However, repeated contact may de-fat the skin and cause dermatitis.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Suspected of damaging the unborn child.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects No special

Other information No special



SECTION 12: Ecological information

Toxicity

The product is of low ecotoxicity

Fish 96h LC50 >100mg/l (Oncorhynchus Mykiss)

Daphnia 48h EC50 Not determined but expected to be virtually non-toxic
Algae 72h EC50 Not determined but expected to be virtually non-toxic

Persistence and degradability

The product is inherently biodegradable and is expected to be readily biodegradable based on ingredients (OECD 302B).

If admitted into adapted biological water treatment plants, no adverse effects of the degrading action of the live sludge are expected

Bioaccumulative potential

Not expected to Bio-accumulate. Log POW for all main ingredients < 2.0

Mobility in soil

The product is soluble in water and will be mobile in the soil until degraded. Volatilization from water to air is not expected.

Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and vPvB.

Other adverse effects No special

SECTION 13: Disposal considerations

Waste treatment methods

The regulations on hazardous waste cover the product.

Dispose of in accord with local and national regulations. Recycling or controlled incineration with energy recovery is recommended.

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261) None of the components are listed

Specific labeling

Not applicable

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

DOT

Not Regulated

SECTION 15: Regulatory information

Safety, health, and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations TSCA

All ingredients are listed on the non-confidential portion of the TSCA.

Clean Air Act

Glycol ethers are regulated as a generic class under this legislation.

EPCRA Section 302

None of the components are listed

EPCRA Section 304

None of the components are listed

EPCRA section 313

Glycol ethers are regulated as a generic class under this legislation.

CERCLA

Glycol ethers are regulated as a generic class under this legislation.

State regulations California

Prop. 65

None of the components are listed



Revision date: 10/15/2020
Revision 01

Restrictions for application

No special

Demands for specific education No specific requirements

Additional information Not applicable

Chemical safety assessment No

Sources OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H361d, Suspected of damaging the unborn child.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration

Factor CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals HCIS = Hazardous Chemical Information System

IARC = International Agency for Research on Cancer IATA = International Air Transport

Association IMDG = International Maritime Dangerous Goods

Log Pow = logarithm of the octanol/water partition coefficient



MARPOL=International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health OECD=Organization for Economic

Co-operation and Development OSHA=Occupational Safety and Health Administration

RCRA = Resource Conservation and Recovery Act

RID=The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE=Specific Target Organ

Toxicity-Single Exposure TSCA = The Toxic Substances Control Act

TWA=Time weighted average UN = United Nations

UVCB = Complex hydrocarbon substance VOC = Volatile Organic

Compound

Additional information

Following OSHA CFR 1910.1200, the evaluation of the classification of the mixture is based on:

The classification of the mixture regarding health hazards follows the calculation methods given by HCS (29 CFR 1910.1200).

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[SJW validates the safety data sheet](#)

Other

A change (in proportion to the last essential change (the first cipher in the SDS version, see section 1)) is marked with a blue triangle.

This safety data sheet's information applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products. It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.