



PETRA XTREME GEAR CONCENTRATE (XGC)

PN 8002

Safety Data Sheet

Version 1.0

Section 1. Product and Company Identification

1.1. Identification

Product use : Automotive axle fluid/lubricant additive
Date of issue/Revisions : 9-29-23
Product name : PETRA 8002
Product description : Lubricating Oil Additive

1.2. Supplier

: Petra Automotive Products, Inc.
11085 Regency Green Dr.
Cypress, Texas 77429

1.3. Transportation Emergency Response CHEMTREC

Emergency number : CHEMTREC: (800) 424-9300

Section 2. Hazard(s) Identification

2.1. Classification of the substance or mixture

Europe : The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Australia : HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Primary hazards and critical effects : WARNING!
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. ASPIRATION HAZARD IF SWALLOWED.

Physical/chemical hazards : COMBUSTIBLE. - United States and Canada VAPOR MAY CAUSE FLASH FIRE.

Environmental hazards : Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Hazardous Material
Information System
(U.S.A.)**

Health	2
Flammability	1
Reactivity	0

2.2. GHS Classification

Hazard classification : FLAMMABLE LIQUIDS - Category 4
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
AQUATIC TOXICITY (ACUTE) - Category 1
AQUATIC TOXICITY (CHRONIC) - Category 1

Symbol



Signal word

: Warning

Hazard statements

: Combustible liquid.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

PETRA XTREME GEAR CONCENTRATE (XGC)

PN 8002

Safety Data Sheet

2.3. Precautionary statements

Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces. - No smoking. Avoid release to the environment.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Storage	: Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3: Composition/Information On Ingredients

3.1. Description of first aid measures

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

Substance/Preparation : Preparation

Ingredient name	CAS no.	Conc. (% w/w)	EU Classification	WHMIS Regulated?
Alkyl polysulfides	Proprietary	30 - 35	R43 N; R50/53	Yes
Mineral oil	Mixture	20 - 40	Not classified	No
Long-chain alkyl amine	Proprietary	1 – 4.9	T; R23/24 Xn; R22, R48/20 C; R34 R43 N; R50/53	Yes
Alkyl phosphates	Proprietary	5 - 9.9	C; R34	Yes
Long-chain alkenyl amine	Proprietary	1 - 4.9	Xn; R22 C; R35 N; R50	Yes

Section 4: First Aid Measures

Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	: DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

PETRA XTREME GEAR CONCENTRATE (XGC)

PN 8002

Safety Data Sheet

Section 5. Fire-fighting Measures

Extinguishing media	: In case of fire, use water spray (fog), foam, dry chemical or CO2.
Fire-fighting procedures	: Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Fire/explosion hazards	: COMBUSTIBLE. - United States and Canada VAPOR MAY CAUSE FLASH FIRE. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides
Flash point	: Closed cup: 82°C (179.6°F) [Pensky-Martens. Minimum]

Section 6. Accidental Release Measures

Personal precautions	: Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5). Do not touch or walk through spilled material.
Environmental precautions and clean-up methods	: If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways.

Note: See section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling And Storage

Handling	: Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling.
Storage	: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8. Exposure Controls/Personal Protection

Engineering controls	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
----------------------	---

8.1. Personal protective equipment

Respiratory system	: Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).
--------------------	---

PETRA XTREME GEAR CONCENTRATE (XGC)

PN 8002

Safety Data Sheet

8.1. Personal protective equipment (Cont.)

Skin and body

: Where contact is likely, wear chemical resistant gloves, a chemical resistant suit, and boots. Additional body garments should be used based upon the task being performed. Appropriate techniques should be used to remove potentially contaminated clothing.

Hands

: Hand Protection: Wear chemical resistant gloves. Nitrile gloves of minimum thickness 0.4 mm have an expected breakthrough time of 480 minutes or less when in frequent contact with the product. Due to variable exposure conditions the user must consider that the practical use of a chemical-protective glove in practice may be much shorter than the permeation time above. Manufacturer's directions for use, especially about the minimum thickness and the minimum breakthrough time, must be observed. This information does not replace suitability tests by the end user since glove protection varies depending on the conditions under which the product is used.

Eyes

: Safety goggles are considered minimum protection. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

8.2. Occupational exposure limits

Ingredient name	OEL United States	OEL Canada	OEL Europe	OEL Australia
1) Mineral oil	ACGIH (United States). TWA: 5 mg/m ³ OSHA (United States). TWA: 5 mg/m ³	(Canada). TWA: 5 mg/m ³ STEL: 10 mg/m ³	EH40-MEL (Europe, 2002). TWA: 5 mg/m ³ 8 hour(s).	NOHSC (Australia, 2003). TWA: 5 mg/m ³ 8 hour(s).

Section 9. Physical and Chemical Properties

Physical state and Appearance	: Liquid
Color	: Amber
Odor	: Stench
Density	: 0.8725 g/cm ³
Specific gravity	: 0.87 @ 15.6°C
Viscosity	: 14 cSt @ 100°C
Auto-ignition temperature	: Not determined
Flash point	: Closed cup: 150°C [Pensky-Martens. Minimum]

Section 10. Stability and Reactivity

Stability	: The product is stable
Materials to avoid	: Strong oxidizing and reducing agents
Conditions to avoid	: High temperatures, sparks, and open flames

PETRA XTREME GEAR CONCENTRATE (XGC)

PN 8002

Safety Data Sheet

Section 11. Toxicological Information

Routes of entry : Skin, Eyes, Ingestion, and Inhalation
Target organs : Contains material which may cause damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, eyes, central nervous system (CNS).

11.1. Acute effects

Inhalation : Irritating to respiratory system. Does not meet EU R37 classification criteria.
Ingestion : Aspiration hazard if swallowed. Can enter lungs and cause damage. Does not meet EU R65 classification criteria. Ingestion may cause gastrointestinal irritation and diarrhea.
Skin contact : Irritating to skin. May cause skin sensitization
Eye contact : Irritating to eyes

11.2. Adverse effects

: Not determined

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA	EU
Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.							
11.3. Toxicity data							
Product/ingredient name	Result	Species	Dose	Exposure			
Alkyl polysulfides	LD50 Dermal	Rabbit	>2000 mg/kg	-			
	LD50 Oral	Rat	6500 mg/kg	-			
	LD50 Oral	Rat	2551 mg/kg	-			
Mineral oil	LD50 Dermal	Rabbit	>5000 mg/kg	-			
	LD50 Oral	Rat	>5000 mg/kg	-			
Alkyl phosphate	LD50 Dermal	Rabbit	>2000 mg/kg	-			
	LD50 Oral	Rat	>3000 mg/kg	-			
Long-chain alkyl amine	LD50 Dermal	Rabbit	251 mg/kg	-			
	LD50 Dermal	Rabbit	201 to 1000 mg/kg	-			
	LD50 Oral	Rat	612 mg/kg	-			
	LD50 Oral	Rat	>500 mg/kg	-			
	LC50 Inhalation Gas.	Rat	157 ppm	4 hours			
Alkyl dithio thiadiazole	LD50 Dermal	Rabbit	>2000 mg/kg	-			
	LD50 Oral	Rat	>10000 mg/kg	-			
	LC50 Inhalation Vapor.	Rat	>2.75 mg/L	4 hours			
Long-chain alkenyl amine	LD50 Oral	Rat	1950 mg/kg	-			

Other information : Not available

Section 12. Ecological information

Environmental hazards : Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. Based on calculation.

Environmental fate : This product contains components which may be persistent in the environment.

Germany water class : 2

RQ (Reportable quantity) : CERCLA: Hazardous substances.: PHOSPHORIC ACID: 5000 lbs. (2270 kg); Ethyl acrylate: 1000 lbs. (454 kg); Ethylene oxide: 10 lbs. (4.54 kg); Propyl ene oxide: 100 lbs. (45.4 kg); Dioxane: 100 lbs. (45.4 kg);

PETRA XTREME GEAR CONCENTRATE (XGC)

PN 8002

Safety Data Sheet

Section 13. Disposal Considerations





Waste handling and disposal

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

European waste catalogue (EWC) Number

: 13 02 05*

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not Regulated	-	-			-
TDG Classification	Not Regulated	-	-			-
ADR/RID Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Alkyl polysulfides-; Long-chain alkyl amine)	9	III		<u>Hazard identification number</u> 90
IMDG Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Alkyl polysulfides-; Long-chain alkyl amine). Marine pollutant	9	III		Marine pollutant
IATA-DGR Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Alkyl polysulfides-; Long-chain alkyl amine)	9	III		-
ADG Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Contains Alkyl polysulfides-; Long-chain alkyl amine)	9	III		-

Notice to reader: The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

Section 15. Regulatory Information

15.1. EU regulations

Hazard symbol(s)



Risk phrases

: Irritant, Dangerous for the environment
: R36/38- Irritating to eyes and skin. R43- May cause sensitization by skin contact. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

: S24/25- Avoid contact with skin and eyes. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S57- Use appropriate containment to avoid environmental contamination.

Contains

: Alkyl polysulfides Long-chain alkyl amine

PETRA XTREME GEAR CONCENTRATE (XGC)

PN 8002

Safety Data Sheet

15.2. US regulations

SARA 313 toxic chemical notification and release reporting (w/w%)	: No SARA 313 chemicals are present above the reporting threshold.
SARA 311/312 Hazardous Categorization	: SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute) health hazard
State - California Prop. 65	: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Ethyl acrylate, Ethylene oxide, Propylene oxide, 1,4-DIOXANE

15.3. Canadian regulations

WHMIS (Classification)	: Not determined.
-------------------------------	-------------------

15.4. International Inventory Status

United States inventory (TSCA 8b)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
Europe inventory	: All components are listed or exempted.
Japan inventory (ENCS)	: All components are listed or exempted.
Australia inventory (AICS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.

Section 16. Other information

Notice to reader:

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. EGF Industrial Lubricants, LLC makes no representation as to completeness or accuracy. In no event will EGF Industrial Lubricants, LLC be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

Full text of R-phrases appearing in section 3	: R23/24- Toxic by inhalation and in contact with skin. R22- Harmful if swallowed. R34- Causes burns. R35- Causes severe burns. R36/38- Irritating to eyes and skin. R43- May cause sensitization by skin contact. R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation. R50- Very toxic to aquatic organisms. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
--	--