

SAFETY DATA SHEET FOR FALK® GMAX® 9000



1. Identification

Product identifier GMAX 9000
Other means of identification
SDS number 467500
Recommended use Lubricant.
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Company name Petron Corporation
Address 16800 W. Glendale Drive
New Berlin, WI, 53151
Telephone 262-797-4680
E-mail info@petroncorp.com
Emergency phone number CHEMTREC: 00+1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.
Health Hazards Not classified.
OSHA defined hazards Not classified.
Label elements
Hazard symbol None.
Signal word None.
Hazard statement None.
Precautionary statement
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Store away from incompatible materials.
Disposal Dispose of contents in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) Not classified.
Supplemental information

Based on the results of tests carried out on a very similar mixture, the mixture is not classified as a skin or eye irritant.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Asphalt	8052-42-4	30-60
Distillates (petroleum), hydrotreated light	64742-47-8	5-10
Distillates (petroleum), hydrotreated middle	64742-46-7	5-10
Naphthenic acids, zinc salts	12001-85-3	1-5

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Move to fresh air.

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Skin contact	Wash with soap and water. Get medical attention if any discomfort continues.
Eye contact	Flush thoroughly with water for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if symptoms persist.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Do not induce vomiting.
Most important symptoms/effects, acute and delayed	Repeated exposure may cause skin dryness or cracking. Ingestion may cause irritation and malaise.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Get medical attention if any discomfort continues.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	The product is non-combustible. Will burn if involved in a fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes. Use personal protection as recommended in Section 8 of the SDS. In case of spills, beware of slippery floors and surfaces.
Methods and materials for containment and cleaning up	Absorb spillage with suitable absorbent material. Collect in approved containers and seal securely. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling	Local exhaust is recommended. Avoid inhalation of vapors and contact with skin and eyes. Wear necessary protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	PEL	5 mg/m3	Mist.
Zirconium versalate 24% (1935D) (CAS 22464-99-9)	PEL	5 mg/m3	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fraction.
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	TWA	5 mg/m3	Inhalable fraction.
Zirconium versalate 24% (1935D) (CAS 22464-99-9)	STEL	10 mg/m3	
	TWA	5 mg/m3	

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US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3	
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	STEL	10 mg/m3	Mist.
Zirconium versalate 24% (1935D) (CAS 22464-99-9)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	
	TWA	5 mg/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls Provide adequate ventilation and minimize the risk of inhalation of vapors and oil mist.

Individual protection measures, such as personal protective equipment

Eye/face protection Not necessary under normal conditions. Risk of splashes: Wear approved safety goggles.

Skin protection

Hand protection

Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other

Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.

Respiratory protection

No protection is ordinarily required with adequate ventilation. In case of inadequate ventilation or risk of inhalation of oil mist, suitable respiratory equipment with particulate filter and organic vapor cartridges can be used.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance	Black thick liquid.
Physical state	Liquid.
Form	Thick liquid.
Color	Black.
Odor	Petroleum.
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 249.8 °F (> 121.0 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.

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Relative density	0.96
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	5000 cSt
Viscosity temperature	104 °F (40 °C)

10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	The product is stable under normal conditions of use, storage and transport.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	High temperatures. Ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of oil mist or vapors formed during heating of the product may irritate the respiratory system.
Skin contact	Prolonged or frequent contact may cause redness, itching and eczema. Prolonged skin contact may cause temporary irritation.
Eye contact	May cause eye irritation.
Ingestion	Ingestion may cause irritation and malaise.
Symptoms related to the physical, chemical and toxicological characteristics	Repeated exposure may cause skin dryness or cracking. Ingestion may cause irritation and malaise.

Information on toxicological effects

Acute toxicity	Inhalation of oil mist or vapors formed during heating of the product may irritate the respiratory system.
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Components	Species	Test Results
Asphalt (CAS 8052-42-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 hours
<i>Inhalation</i>		
LC50	Rat	> 94.4 mg/m3
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 5.28 mg/l, 4 hours
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 hours

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Components	Species	Test Results
<i>Inhalation</i> LC50	Rat	7640 mg/m ³ , 4 hours 1.72 mg/l, 4 hours
Naphthenic acids, zinc salts (CAS 12001-85-3)		
Acute <i>Oral</i> LD50	Rat	4920 mg/kg
Skin corrosion/irritation	The mixture is not classified based on the results of tests carried out on a very similar mixture.	
Serious eye damage/eye irritation	The mixture is not classified based on the results of tests carried out on a very similar mixture.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	Not a skin sensitizer.	
Germ cell mutagenicity	Test data conclusive but not sufficient for classification.	
Carcinogenicity	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)		
Not listed.		
Reproductive toxicity	Based on available data, the classification criteria are not met.	
Specific target organ toxicity - single exposure	Test data conclusive but not sufficient for classification.	
Specific target organ toxicity - repeated exposure	Test data conclusive but not sufficient for classification.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
Chronic effects	Prolonged or frequent contact may cause redness, itching and eczema.	
12. Ecological information		
Ecotoxicity	Not classified.	
Persistence and degradability	The product contains inorganic compounds which are not biodegradable.	
Bioaccumulative potential	Potential to bioaccumulate is low.	
Mobility in soil	No data available.	
Mobility in general	The product is insoluble in water. It floats on water surfaces, forming a film that prevents the process of normal oxygen transfer in water.	
Other adverse effects	The spill of oil based products can negatively affect the environment.	
13. Disposal considerations		
Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Product, as supplied, does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and does not contain contaminants as determined by the Toxicity Characteristic Leachate Procedure (TCLP).	
Local disposal regulations	Dispose of in accordance with local regulations.	
Hazardous waste code	Not regulated.	
Waste from residues / unused products	Dispose of waste and residues in accordance with local authority requirements.	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.	
14. Transport information		
DOT		
Not regulated as dangerous goods.		
IATA		
Not regulated as dangerous goods.		

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IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Naphthenic acids, zinc salts (CAS 12001-85-3) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Naphthenic acids, zinc salts	12001-85-3	1-5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Asphalt (CAS 8052-42-4)
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)

US. New Jersey Worker and Community Right-to-Know Act

Asphalt (CAS 8052-42-4)
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)
Naphthenic acids, zinc salts (CAS 12001-85-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Asphalt (CAS 8052-42-4)
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)

US. Rhode Island RTK

Naphthenic acids, zinc salts (CAS 12001-85-3)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	30-September-2014
Revision date	-
Version #	01
List of abbreviations	ACGIH: American Conference of Industrial Hygienists. TWA: Time weighted average. STEL: Short term exposure limit. REL: Recommended exposure limit .
References	HSDB® - Hazardous Substances Data Bank Registry of Toxic Effects of Chemical Substances (RTECS) Communication on results of Acute Dermal Irritation in Rabbits Test. Communication on results of Acute Eye Irritation Corrosion in Rabbits Test.
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.