Peak CS EP2 Synthetic Grease

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Peak CS EP2 Synthetic Grease

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Grease

1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC
4065 Commercial Ave.
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

Signal word (GHS-US) : None

Hazard statements (GHS-US) : None

Precautionary statements (GHS-US) : P273 - Avoid release to the environment
P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
distillates (petroleum), solvent-dewaxed heavy paraffinic	(CAS No) 64742-65-0	60 - 75	Not classified
Additive mixture, Proprietary	(CAS No) -	25 - 35	Not classified
calcium carbonate	(CAS No) 471-34-1	2 - 10	Not classified
Benzenesulfonic Acid, C10-16-Alkyl Derivs	(CAS No) 68584-22-5	< 2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318
12-hydroxystearic acid	(CAS No) 106-14-9	< 2	Skin Irrit. 2, H315 STOT SE 3, H335
calcium hydroxide	(CAS No) 1305-62-0	< 1.5	Not classified
acetic acid	(CAS No) 64-19-7	< 1	Flam. Liq. 3, H226 Skin Corr. 1A, H314

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.

Symptoms/injuries after skin contact : Contact during a long period may cause slight irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : Do not use a heavy water stream. Will float and can be reignited on water surface.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Promotes combustion.

Explosion hazard : Not applicable.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Fight fire with normal precautions from a reasonable distance. Under fire conditions, hazardous fumes will be present.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Special protective equipment for fire fighters : Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves). Wear positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, spray.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain leaking substance. Plug the leak, cut off the supply. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in a dry place. Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near food, foodstuffs, drugs or potable water supplies.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Peak CS EP2 Synthetic Grease		
ACGIH	ACGIH TWA (mg/m³)	5.00 mg/m³ Chemical name: Mineral Oil (excluding metal working fluids, highly & severely refined-inhalable fraction)
ACGIH	ACGIH STEL (mg/m³)	10.00 mg/m³ Chemical name: Mineral Oil (excluding metal working fluids, highly & severely refined-inhalable fraction)
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ Chemical name: Mineral Oil

calcium hydroxide (1305-62-0)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
OSHA	Not applicable	

acetic acid (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	15 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; pulm func
OSHA	OSHA PEL (TWA) (mg/m³)	25 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance	:	Semi-solid at room temperature.
Color	:	Green Blue
Odor	:	petroleum-like odor
Odor threshold	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	243 °C (469 ºF) [Method used: Cleveland Open Cup]
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Specific Gravity	:	0.99
Density	:	0.99 kg/l (8.26 lbs/gal)
Solubility	:	Water: Negligible
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	Not applicable.
Oxidizing properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
LD50 oral rat	> 5,000.00 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 5,000.00 mg/kg bodyweight (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	> 5.00 mg/l/4h (Rat; Literature study)

calcium carbonate (471-34-1)	
LD50 oral rat	6,450.00 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Literature study; >2000 mg/kg; Rat; Experimental value)
LD50 dermal rat	> 2,000.00 mg/kg bodyweight (Rat; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 3.00 mg/l/4h (Rat; Experimental value)

calcium carbonate (471-34-1)	
ATE US (oral)	6,450.00 mg/kg bodyweight

calcium hydroxide (1305-62-0)	
LD50 dermal rabbit	> 2,500.00 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)

Benzenesulfonic Acid, C10-16-Alkyl Derivs (68584-22-5)	
ATE US (oral)	500.00 mg/kg bodyweight
ATE US (dermal)	1,100.00 mg/kg bodyweight

acetic acid (64-19-7)	
LD50 oral rat	3,310.00 mg/kg bodyweight (Rat; Other; Read-across)
ATE US (oral)	3,310.00 mg/kg bodyweight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation.
Symptoms/injuries after skin contact : Contact during a long period may cause slight irritation.
Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.

SECTION 12: Ecological information

12.1. Toxicity

calcium carbonate (471-34-1)	
LC50 fish 1	> 100.00 % (96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	> 100.00 % (48 h; Daphnia magna)
TLM fish 1	> 56000 mg/l (96 h; Gambusia affinis)
Threshold limit algae 1	> 14 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	14 mg/l (72 h; Desmodesmus subspicatus; GLP)

calcium hydroxide (1305-62-0)	
LC50 fish 1	160.00 mg/l (96 h; Gambusia affinis; GLP)
LC50 other aquatic organisms 1	100 - 1000 mg/l (96 h)
EC50 Daphnia 1	49.10 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	220.00 mg/l (48 h; Gambusia affinis)
TLM fish 1	33.9 mg/l (96 h; Pisces)
TLM fish 2	220 ppm (48 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	100 - 1000,96 h
Threshold limit algae 1	184.57 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)

acetic acid (64-19-7)	
LC50 fish 1	75.00 mg/l (96 h; Lepomis macrochirus; GLP)
EC50 Daphnia 1	47.00 mg/l (24 h; Daphnia magna; Not neutralized)
LC50 fish 2	94.00 mg/l (96 h; Oryzias latipes)

acetic acid (64-19-7)	
EC50 Daphnia 2	95.00 mg/l (24 h; Daphnia magna; Static system)
TLM fish 1	100 ppm (96 h; Carassius auratus)
Threshold limit algae 1	90 mg/l (192 h; Microcystis aeruginosa; Neutralized)
Threshold limit algae 2	4000 mg/l (192 h; Scenedesmus quadricauda; Neutralized)

12.2. Persistence and degradability

distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
Persistence and degradability	Contains non readily biodegradable component(s). Adsorbs into the soil. Low potential for mobility in soil.

calcium carbonate (471-34-1)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
ThOD	Not applicable (inorganic)

calcium hydroxide (1305-62-0)	
Persistence and degradability	Biodegradability: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

acetic acid (64-19-7)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O_2/g substance
Chemical oxygen demand (COD)	1.03 g O_2/g substance
ThOD	1.07 g O_2/g substance

12-hydroxystearic acid (106-14-9)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
Log Pow	> 6.00 (Conclusion by analogy)
Bioaccumulative potential	Contains bioaccumulative component(s).

calcium carbonate (471-34-1)	
Log Pow	-2.12 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.

calcium hydroxide (1305-62-0)	
Bioaccumulative potential	Not bioaccumulative.

acetic acid (64-19-7)	
BCF fish 1	3.16 (Pisces)
Log Pow	-0.17 (Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12-hydroxystearic acid (106-14-9)	
Log Pow	0.00
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

acetic acid (64-19-7)	
Surface tension	0.03 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

Effect on ozone layer : No known effect on the ozone layer

Effect on global warming : No known ecological damage caused by this product.
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT

Not a dangerous good in sense of transport regulations

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Peak CS EP2 Synthetic Grease	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed

distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Additive mixture, Proprietary (-)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

calcium carbonate (471-34-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Benzenesulfonic Acid, C10-16-Alkyl Derivs (68584-22-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

acetic acid (64-19-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not listed on the United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb(s)

12-hydroxystearic acid (106-14-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

WHMIS Classification

distillates (petroleum), solvent-dewaxed heavy paraffinic **(64742-65-0)**	
Listed on the Canadian DSL (Domestic Sustances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

acetic acid (64-19-7)

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Not classified

National regulations
No additional information available

15.3. US State regulations

acetic acid (64-19-7)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

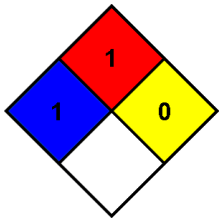
Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 ºF (93 ºC). (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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