

Synthetic 0W-40 Motor Oil

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 10/30/2015 Version: 1.0



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

1.1. Identification
Product form : Mixture
Product name : Synthetic 0W-40 Motor Oil
Other means of identification : Part number: 10210, 20211, 10211, 10212, 10213,10214,10215, 10327

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Lubricant

1.3. Details of the supplier of the safety data sheet
Lucas Oil Products, Inc
302 North Sheridan Street
Corona, California 92880-2067 - USA
T (951) 270-0154 - F (951) 270-1902
GHewgill@lucasoil.com - www.LucasOil.com

1.4. Emergency telephone number
Emergency number : (951) 493-1149 (951) 847-5949 7:00A.M. to 5:00P.M. Monday thru Friday

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Not classified

2.2. Label elements
GHS-US labelling
No labelling applicable

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
10 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
10 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
10.75 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
1-Decene, homopolymer, hydrogenated	(CAS No) 68037-01-4	50 - 70	Asp. Tox. 1, H304
Polyisobutylene	(CAS No) 9003-27-4 or 9003-29-6	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Distillates, hydrotreated heavy paraffinic (DMSO <3%)	(CAS No) trade secret	0.5 – 3	Asp. Tox. 1, H304
Phosphorodithioic acid, -alkyl esters, zinc salts	(CAS No) trade secret	0.5 – 2.5	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Residual Oils, Solvent Dewaxed (DMSO <3%)	(CAS No) trade secret	0.1 – 1.5	Acute Tox. 4 (Inhalation:dust,mist), H332

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret
Full text of H-statements: see section 16

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.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Gently wash with plenty of soap and water.
First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water.

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First-aid measures after ingestion : Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation : Inhalation of vapours may cause respiratory irritation.

Symptoms/injuries after eye contact : May cause slight irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry chemical. Foam. Water spray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No particular fire or explosion hazard.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flammable resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable gloves.

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Do not allow minor leaks or spills to accumulate on walking surfaces. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Absorb and/or contain spill with inert material, then place in suitable container.

6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong oxidizers.

Heat and ignition sources : Keep away from heat, sparks and flame.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Synthetic 0W-40 Motor Oil		
ACGIH	Not applicable	
OSHA	Not applicable	
1-Decene, homopolymer, hydrogenated (68037-01-4)		
ACGIH	Not applicable	
OSHA	Not applicable	
Distillates, hydrotreated heavy paraffinic (DMSO <3%) (trade secret)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ oil mist
ACGIH	ACGIH STEL (mg/m³)	10 mg/m³ oil mist
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ oil mist
Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)		
ACGIH	Not applicable	
OSHA	Not applicable	
Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ oil mist
OSHA	Not applicable	
Polyisobutylene (9003-27-4 or 9003-29-6)		
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: In case of repeated or prolonged contact wear gloves. nitrile rubber gloves.
Eye protection	: In case of splashing or aerosol production: protective goggles.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. NIOSH. Approved respirator.
Environmental exposure controls	: Prevent contaminated water run-off. Prevent leakage or spillage.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber
Odour	: petroleum
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 229.4 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: 0.85 @ 15.6 °C

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Relative vapour density at 20 °C	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: 86 cSt 40 °C
Viscosity, dynamic	: No data available

9.2. Other information

Minimum ignition energy	: <
VOC content	: 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure	: Inhalation; Skin and eye contact
Acute toxicity	: Not classified

1-Decene, homopolymer, hydrogenated (68037-01-4)

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg

Distillates, hydrotreated heavy paraffinic (DMSO <3%) (trade secret)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.53 mg/l/4h

Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l/4h
ATE US (vapours)	2.180 mg/l/4h
ATE US (dust,mist)	2.180 mg/l/4h

Polyisobutylene (9003-27-4 or 9003-29-6)

LD50 oral rat	> 34600 mg/kg
LD50 dermal rabbit	> 10250 mg/kg
LC50 inhalation rat (mg/l)	> 17300 mg/m ³

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

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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	: Inhalation of vapours may cause respiratory irritation.
Symptoms/injuries after eye contact	: May cause slight irritation.

SECTION 12: Ecological information

12.1. Toxicity

1-Decene, homopolymer, hydrogenated (68037-01-4)	
LC50 fish 1	> 750 mg/l
EC50 Daphnia 1	190 mg/l
NOEC (acute)	1000 mg/l
Distillates, hydrotreated heavy paraffinic (DMSO <3%) (trade secret)	
EC50 Daphnia 1	> 10000 mg/l
Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)	
LC50 fish 1	10 (10 - 35) mg/l Pimephales promelas
EC50 Daphnia 1	1 (1 - 1.5) mg/l
NOEC (acute)	10 mg/l Pimephales promelas
NOEC (chronic)	< 1 mg/l crustacea
Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)	
NOEC (acute)	>= 100 mg/l
Polyisobutylene (9003-27-4 or 9003-29-6)	
LC50 fish 1	> 1000 mg/l
EC50 Daphnia 1	> 1000 mg/l

12.2. Persistence and degradability

1-Decene, homopolymer, hydrogenated (68037-01-4)	
Persistence and degradability	Readily biodegradable.
Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)	
Persistence and degradability	Product persists. Readily biodegradable.
Polyisobutylene (9003-27-4 or 9003-29-6)	
Persistence and degradability	This product is not expected to be biodegradable.

12.3. Bioaccumulative potential

1-Decene, homopolymer, hydrogenated (68037-01-4)	
Bioaccumulative potential	Not expected to bioaccumulate.
Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)	
Bioaccumulative potential	Bioaccumulative potential.
Polyisobutylene (9003-27-4 or 9003-29-6)	
Bioaccumulative potential	This product is not bioaccumulating.

12.4. Mobility in soil

Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)	
Ecology - soil	This material has low solubility and floats and is not expected to partition to water. Absorbs to soil particles and will not be mobile.
Polyisobutylene (9003-27-4 or 9003-29-6)	
Ecology - soil	This material has low solubility and floats and is not expected to partition to water.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Do not dispose of waste into sewer.
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Waste disposal recommendations : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not considered a dangerous good for transport regulations

TDG

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

1-Decene, homopolymer, hydrogenated (68037-01-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Distillates, hydrotreated heavy paraffinic (DMSO <3%) (trade secret)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Polyisobutylene (9003-27-4 or 9003-29-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

1-Decene, homopolymer, hydrogenated (68037-01-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Distillates, hydrotreated heavy paraffinic (DMSO <3%) (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Polyisobutylene (9003-27-4 or 9003-29-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

1-Decene, homopolymer, hydrogenated (68037-01-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Distillates, hydrotreated heavy paraffinic (DMSO <3%) (trade secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Phosphorodithioic acid, -alkyl esters, zinc salts (trade secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Residual Oils, Solvent Dewaxed (DMSO <3%) (trade secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Polyisobutylene (9003-27-4 or 9003-29-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Not classified

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National regulations

1-Decene, homopolymer, hydrogenated (68037-01-4)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Polyisobutylene (9003-27-4 or 9003-29-6)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3. US State regulations

No additional information available

SECTION 16: Other information

Indication of changes	: Original Document.
Data sources	: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database . Kriester Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. NIOSH Occupational Health Guide for chemical Substances - Vol. II, September, 1978. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html .
Abbreviations and acronyms	: ATE: Acute Toxicity Estimate. CAS (Chemical Abstracts Service) number. CFR: Code of Federal Regulations. EC50: Environmental Concentration associated with a response by 50% of the test population. GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). LD50: Lethal Dose for 50% of the test population. OSHA: Occupational Safety & Health Administration. STEL: Short Term Exposure Limits. TSCA: Toxic Substances Control Act. TWA: Time Weighted Average.
Other information	: None.

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Full text of H-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 4	Flammable liquids, Category 4
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

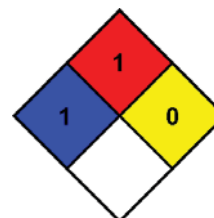
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

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



Redstone SDS US GHS for Lucas Oil

SDS Prepared by:

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product