



Lubegard® Engine Oil Protectant for Turbocharged Engines

Safety Data Sheet

Conforms to United States OSHA 2012 HazCom

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Version: 1.1

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

1.1. Product identifier

Product name : Lubegard® Turbocharged Engine Oil Treatment
Product code : 30015

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

1.2.1 Relevant identified uses

Use of the Substance/Mixture : Additive

1.2.2 Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

International Lubricants, Inc.
P.O. Box 24743
98124-0743 Seattle, WA - USA
T (206) 762-5343
(800) 333-LUBE (5823)
contact@lubegard.com

1.4. Emergency telephone number

Emergency number with hours of operation: : ChemTel (800)255-3924
24-hours a day /7 day a week /365 day a year ChemTel (813)248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to United States OSHA 2012 HazCom

Hazard Class

Skin Sensitization, Category 1

2.2. Label elements

Label elements according to United States OSHA 2012 HazCom

Hazard Pictograms



Signal Word

Warning

Hazard Statements

H317 – May cause an allergic skin reaction

Precautionary Statements

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray
P272 – Contaminated work clothing must not be allowed out of the workplace

Response

P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P363 - Wash contaminated clothing before reuse
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

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Storage	Not applicable
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national, and international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

78% of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixtures

Ingredient Name	CAS Number	Weight %	GHS – OSHA Classification
Lubricating oils, refined, used	68476-77-7	40 – 70	Not classified
1-Decene, homopolymer, hydrogenated	68037-01-4	10 - 30	Aspiration Toxicant, Category 1
Butanedioic acid (4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl) thio-bis (2- ethylhexyl) ester	126104-53-8	1 – 5	Skin Sensitization, Category 1A
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	1 – 5	Not classified
Diethanolamine	111-42-2	<0.1	Acute Toxicity, Oral, Category 4 Serious Eye Damage, Category 1

SECTION 4 : First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses. If irritation persists, get medical attention.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention/advice if you feel unwell.

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

Symptoms/injuries after inhalation	: May cause respiratory tract irritation. Vapors may cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying , defatting and cracking of the skin. May cause sensitization by skin contact.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excessive blinking and tear production.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5 : Firefighting measures

5.1. Extinguishing Media

Suitable Extinguishing Media:	Powder, foam, carbon dioxide.
Unsuitable Extinguishing Media:	Water

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5.2. Special Hazards Arising from the Chemical

Fire Hazard: May include, but are not limited to oxides of carbon, oxides of phosphorous, oxides of sulfur.

5.4. Special Protective Equipment and Precautions for Fire Fighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 : Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.2. For emergency responders: No additional information available.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow the material to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Vacuum or sweep material and place in a disposal container. Provide ventilation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not swallow. Open and handle container with care. When using do not eat, drink, or smoke. Do not breathe gas/fumes/vapor/spray.

General hygiene advice : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Keep away from food, drink, and animal feedingstuffs.

7.3. Specific End use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Guidelines

Occupational Exposure Limits		
Ingredient Name	OSHA-PEL	ACGIH-TLV
Lubricating oils, refined, used	Not available	Not available
1-Decene, homopolymer, hydrogenated	Not available	Not available
Butanedioic acid (4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl) thio-bis (2-ethylhexyl) ester	Not available	Not available
Distillates (petroleum), hydrotreated heavy paraffinic	5 mg/m ³ , 8 hours	5 mg/m ³ , 8 hours
Diethanolamine	Not available	Not available

8.2. Exposure controls

Engineering Controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
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8.3. Individual Protective Measures

Personal Protective Equipment	
Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Wear approved eye protection (properly fitted dust-proof or splash-proof chemical safety goggles) and face protection (face shield).

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Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.
General health and safety measures	: Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, physical state and color	: Transparent, brown-colored liquid
Odor	: Petroleum odor
Odor threshold	: No data available
pH	: No data available
Melting point / Freezing Point	: No data available
Initial boiling point / Boiling range	: No data available
Flash point	: 213°C (416°F) ASTM D92
Relative evaporation rate	: < 1 (Water = 1)
Flammability (solid, gas)	: Not flammable
Lower flammable / Explosive limit	: No data available
Upper flammable / Explosive limit	: No data available
Vapor pressure	: < 0.1 mm Hg @ 25°C (77°F)
Vapor density	: >1 (Air = 1)
Relative density	: 0.87 g/cm ³ @ 60°F
Solubility	: Insoluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 35.6 cSt @ 40 °C (104 °F)
Viscosity, dynamic	: No data available
Oxidizing properties	: No data available
Explosive properties	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Heat. Incompatible materials.

10.5. Incompatible materials

Oxidizers

10.6. Hazardous decomposition products

May include, but are not limited to oxides of carbon, oxides of phosphorous.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Lubegard® Turbocharged Engine Oil Treatment	
LD50 oral rat	>2000 mg/kg
LD50 dermal rabbit	>2000 mg/kg
LC50 inhalation rat	No data available

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Lubricating oils, refined, used (68476-77-7)	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available

1-Decene, homopolymer, hydrogenated (68037-01-4)	
LD50 oral rat	>5000 mg/kg
LD50 dermal rabbit	No data available
LC50 inhalation rat	>5.2 mg/L, 4 hours

Butanedioic acid (4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl) thio-bis (2- ethylhexyl) ester (126104-53-8)	
LD50 oral rat	No data available
LD50 dermal rabbit	No data available
LC50 inhalation rat	No data available

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat	>5.53 mg/l, 4 hours

Diethanolamine (111-42-2)	
LD50 oral rat	620 µL/Kg
LD50 dermal rabbit	7640 µL/Kg
LC50 inhalation rat	No data available

Ingredient	Chemical Listed as a Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, Prop 65) (See Section 15 for more information)
Lubricating oils, refined, used	Not listed
1-Decene, homopolymer, hydrogenated	Not listed
Butanedioic acid (4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl) thio-bis (2- ethylhexyl) ester	Not listed
Distillates (petroleum), hydrotreated heavy paraffinic	Not listed
Diethanolamine	ACGIH Group A3, IARC Group 2B, Prop 65

Skin Corrosion/Irritation:

Serious Eye Damage/Irritation:

Respiratory or Skin Sensitization:

Germ Cell Mutagenicity:

Carcinogenicity:

Reproductive Toxicity:

Specific Target Organ Toxicity - Single Exposure:

Specific Target Organ Toxicity - Repeated Exposure:

Aspiration Hazard:

Symptoms/injuries after inhalation:

Symptoms/injuries after skin contact:

Symptoms/injuries after eye contact:

Symptoms/injuries after ingestion:

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

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

May cause an allergic skin reaction.

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

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

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

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

May cause respiratory tract irritation.

May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin. May cause sensitization by skin contact.

May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness or swelling.

May be harmful if swallowed. May cause stomach distress, nausea, or vomiting.

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SECTION 12: Ecological information

12.1. Ecotoxicity

Acute/Chronic Toxicity May cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability Not available

12.3. Bioaccumulative potential

Bioaccumulation Not available

12.4. Mobility in soil

Not available

12.5. Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other Disposal Recommendations: Not available.

SECTION 14: Transport information

In accordance with DOT

14.1 UN NUMBER

Not regulated

14.2 UN PROPER SHIPPING NAME

Not regulated

14.3 ADDITIONAL INFORMATION

Other information:

No supplementary information available.

Special transport precautions:

Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the chemical

15.1.1. United States : Safety data sheet prepared pursuant to the Hazard Communication Standard, 29 CFR 1910.1200 (2012 OSHA HazCom)

SARA Title III				
Ingredient Name	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Lubricating oils, refined, used	Not listed	Not listed	Not listed	Not listed
1-Decene, homopolymer, hydrogenated	Not listed	Not listed	Not listed	Not listed
Butanedioic acid (4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl) thio-bis (2- ethylhexyl) ester	Not listed	Not listed	Not listed	Not listed
Distillates (petroleum), hydrotreated heavy paraffinic	Not listed	Not listed	Not listed	Not listed
Diethanolamine	Not listed	Not listed	100	313

State Regulations

California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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Ingredient Name	USA TSCA
Lubricating oils, refined, used	Yes
1-Decene, homopolymer, hydrogenated	Yes
Butanedioic acid (4,5-dihydro-5-thioxo-1,3,4-thiadiazol-2-yl) thio-bis (2- ethylhexyl) ester	No
Distillates (petroleum), hydrotreated heavy paraffinic	No
Diethanolamine	Yes

NFPA - National Fire Protection Association	
Health:	1
Fire:	1
Reactivity:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

HMIS – Hazardous Materials Identification System	
Health:	1
Fire:	1
Reactivity:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65

OSHA Occupational Safety and Health Administration.

ACGIH American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

SECTION 16: Other information

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End of Safety Data Sheet