

SECTION 1: Identification

1.1. Identification

Product name : DIESEL LIFELINE
Product code : 103092 and 103093

1.2. Recommended use and restrictions on use

Recommended use : Diesel Fuel Additive

1.3. Supplier

Manufacturer

R.B. Howes & Co., Inc.
3511 North Ohio Street
Wichita, KS 67219 - USA
T 401-294-5500, 1-800 GET HOWES (438-4693)

1.4. Emergency telephone number

Emergency number : CHEMTREC 1 (800) 424-9300 / 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4
Skin Irrit. 2
Carc. 2
Asp. Tox. 1

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Combustible liquid
Causes skin irritation
Suspected of causing cancer
May be fatal if swallowed and enters airways

Precautionary statements (GHS-US) :

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, open flames, sparks. - No smoking.
Wash hands thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned: Get medical advice/attention.
If swallowed: Immediately call a poison center or doctor
Do NOT induce vomiting.
If on skin: Wash with plenty of water
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % |
|-------------------------|--------------------|---------|
| Organic Solvent | Proprietary | 15 - 40 |
| Petroleum Distillates 1 | Proprietary | 10 - 30 |
| Petroleum Distillates 2 | Proprietary | 10 - 30 |
| Petroleum Distillates 3 | Proprietary | 10 - 30 |
| Petroleum Distillates 4 | Proprietary | 10 - 30 |
| Aromatic Hydrocarbon | Proprietary | 1 - 5 |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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 : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : 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.
- First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May result in aspiration into the lungs, causing chemical pneumonia.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

- Fire hazard : Combustible liquid. Products of combustion may include, and are not limited to: oxides of carbon.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Eliminate sources of ignition. Use only non-sparking tools. Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

No additional information available

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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Handle in well-ventilated areas.
- Hygiene measures : Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Organic Solvent | | |
|-------------------------|---------------------------------------|--|
| ACGIH | ACGIH TWA (ppm) | 100 ppm |
| ACGIH | ACGIH STEL (ppm) | 150 ppm |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 600 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| OSHA | Limit value category (OSHA) | prevent or reduce skin absorption |
| IDLH | US IDLH (ppm) | 600 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 600 mg/m ³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| NIOSH | NIOSH REL (STEL) (mg/m ³) | 900 mg/m ³ |
| NIOSH | NIOSH REL (STEL) (ppm) | 150 ppm |
| NIOSH | US-NIOSH chemical category | Potential for dermal absorption |
| Petroleum Distillates 1 | | |
| ACGIH | ACGIH TWA (mg/m ³) | 200 mg/m ³ (application restricted to conditions in which there are negligible aerosol exposures-total hydrocarbon vapor) |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 100 mg/m ³ |
| Petroleum Distillates 2 | | |
| Not applicable | | |
| Petroleum Distillates 3 | | |
| Not applicable | | |
| Petroleum Distillates 4 | | |
| Not applicable | | |

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| Aromatic Hydrocarbon | | |
|----------------------|---------------------------------------|----------------------|
| ACGIH | ACGIH TWA (ppm) | 10 ppm |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 50 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 10 ppm |
| IDLH | US IDLH (ppm) | 250 ppm |
| NIOSH | NIOSH REL (TWA) (mg/m ³) | 50 mg/m ³ |
| NIOSH | NIOSH REL (TWA) (ppm) | 10 ppm |
| NIOSH | NIOSH REL (STEL) (mg/m ³) | 75 mg/m ³ |
| NIOSH | NIOSH REL (STEL) (ppm) | 15 ppm |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration

Eye protection:

Safety glasses or goggles are recommended when using product.

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.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. 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 |
| Color | : Clear |
| Odor | : Distinctive |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 179.4 °C IBP (354.92°F), FBP 294°C (561.2°F) ASTM D86 |
| Flash point | : ≥ 66 °C (151 °F) [Closed cup] |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Combustible liquid |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 26.88 @ 60°F ASTM D4052 |
| Solubility | : Water: Insoluble in water |
| Partition coefficient n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : 1.805 cSt @ 40°C (104°F) |
| Viscosity, dynamic | : No data available |

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| | |
|----------------------|---------------------|
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : 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

May form flammable/explosive vapor-air mixture. Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Sources of ignition. Incompatible materials.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

May release flammable gases. May include, and are not limited to: oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Organic Solvent | |
|-------------------------|--|
| LD50 oral rat | 5.35 g/kg |
| LD50 dermal rabbit | 9500 mg/kg |
| Petroleum Distillates 1 | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat | > 5.28 mg/l/4h |
| Petroleum Distillates 2 | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat | 2180 mg/m ³ (Exposure time: 4 h) |
| Petroleum Distillates 3 | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2 ml/kg |
| LC50 inhalation rat | > 590 mg/m ³ (Exposure time: 4 h) |
| Petroleum Distillates 4 | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| Aromatic Hydrocarbon | |
| LD50 oral rat | 1110 mg/kg |
| LD50 dermal rabbit | 1120 mg/kg |
| LC50 inhalation rat | > 340 mg/m ³ (Exposure time: 1 h) |

| | |
|-----------------------------------|--------------------------------|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |

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| Aromatic Hydrocarbon | |
|--|--|
| IARC group | 2B - Possibly carcinogenic to humans |
| National Toxicology Program (NTP) Status | Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen |
| In OSHA Hazard Communication Carcinogen list | Yes |

| | |
|--|--|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |
| Specific target organ toxicity – repeated exposure | : Not classified |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Symptoms/effects after inhalation | : May cause irritation to the respiratory tract. |
| Symptoms/effects after skin contact | : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. |
| Symptoms/effects after eye contact | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Symptoms/effects after ingestion | : May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May result in aspiration into the lungs, causing chemical pneumonia. |
| Other information | : Likely routes of exposure: ingestion, inhalation, skin and eye. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

| Organic Solvent | |
|-----------------|--|
| LC50 fish 1 | > 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 1919 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| Petroleum Distillates 2 | |
|-------------------------|--|
| LC50 fish 1 | > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia 1 | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| Petroleum Distillates 3 | |
|-------------------------|---|
| LC50 fish 1 | 19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |

| Petroleum Distillates 4 | |
|-------------------------|--|
| LC50 fish 1 | > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia 1 | > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

| Aromatic Hydrocarbon | |
|----------------------|--|
| LC50 fish 1 | 5.74 - 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| EC50 Daphnia 2 | 1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through]) |

12.2. Persistence and degradability

| DIESEL LIFELINE | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| DIESEL LIFELINE | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Organic Solvent | |
|---------------------------------------|-------------------|
| Partition coefficient n-octanol/water | -0.064 (at 20 °C) |

| Petroleum Distillates 3 | |
|---------------------------------------|-----------|
| BCF fish 1 | 61 - 159 |
| Partition coefficient n-octanol/water | 2.9 - 6.1 |

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| Aromatic Hydrocarbon | |
|---------------------------------------|----------|
| BCF fish 1 | 30 - 430 |
| Partition coefficient n-octanol/water | 3.6 |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

| Aromatic Hydrocarbon | |
|--|-----|
| 1990 Hazardous Air Pollutant (Clean Air Act) | Yes |

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapors are flammable.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

UN-No.(DOT) : UN1268
Proper Shipping Name (DOT) : Petroleum distillates, n.o.s.
Class (DOT) : Combustible liquid
Packing group (DOT) : III

Transport by sea

This product is currently not packaged to comply with IMDG regulations. It is not intended to be shipped by sea.

Transport by air

This product is currently not packaged to comply with IATA regulations. It is not intended to be shipped by air.

SECTION 15: Regulatory information

15.1. US Federal regulations


All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

| Aromatic Hydrocarbon | |
|---|--|
| Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS) | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a final TSCA section 4 test rule. |
| CERCLA RQ | 100 lb |

15.2. International regulations

No additional information available

15.3. US State regulations

 **WARNING:** Cancer - www.P65Warnings.ca.gov.

SECTION 16: Other information

Date of issue : 04/16/2018
Revision date : 03/01/2019
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com

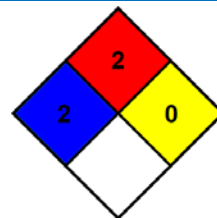


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| | |
|--------------------|--|
| NFPA health hazard | : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. |
| NFPA fire hazard | : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. |
| NFPA reactivity | : 0 - Material that in themselves are normally stable, even under fire conditions. |



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