



SECTION 1: IDENTIFICATION

- 1.1 Product identifier: Diesel Lifeline
Other means of identification: Not Applicable
- 1.2 Recommended use of the chemical and restrictions on use:
Relevant uses (Consumer use): Diesel Additive
Relevant uses (Professional users): Diesel Additive
Relevant uses (Industrial user): Diesel Additive
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Initial supplier identifier:
R.B. Howes & Co. Inc.
60 Ocean State Drive
02852 North Kingstown - RI - United States
Phone: 4012945500
SDS@howesproducts.com
www.howesproducts.com
- | | |
|--|---|
| <u>Manufacturer</u>
R.B. Howes & Co., Inc.
3511 North Ohio Street
Wichita, KS, 67219
USA
T 401-294-5500, 1-800 GET HOWES (438-4693) | <u>Distributor</u>
White Line Distributors
3625 Weston Rd Unit 24
North York, ON M9L 1V9 - Canada
T +1 416-747-8509 |
| <u>Manufacturer</u>
EMCO Chemical Packaging
2100 Commonwealth Ave.
North Chicago, IL 60064 - USA
T 847-689-2200 | <u>Distributor</u>
Associated Truckers Supply
44195 Yale Rd
Chilliwack, BC V2R 4H2 - Canada
T +1 604-795-5700 |
- 1.4 Emergency phone number: 703-527-3887
(CHEMTREC) 800-424-9300

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture:

Classified in accordance with 29 CFR 1910.1200 (HCS 2024) and Part 2 of the Canadian Hazardous Products Regulations (HPR), as amended.

29 CFR 1910.1200 (HCS 2024) / WHMIS 2022 (HPR):

Acute toxicity (inhalation), Category 4, H332
Aspiration hazard, Category 1, H304
Carcinogenicity, Category 2, H351
Eye irritation, Category 2B, H320
Flammable liquids, Category 4, H227
Skin corrosion/irritation, Category 2 (skin irritation), H315
Specific target organ toxicity - repeated exposure, Category 2, H373
Specific target organ toxicity - single exposure, Category 3 (respiratory irritation), H335
Specific target organ toxicity - single exposure, Category 3 (narcotic effects), H336

2.2 Label elements:



Signal word: Danger
Required workplace pictograms: Exclamation mark; Health hazard

Hazard statements:

H332 Harmful if inhaled.
H304 May be fatal if swallowed and enters airways.
H351 Suspected of causing cancer.
H320 Causes eye irritation.
H227 Combustible liquid.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapors or mist.
P264 Wash hands and exposed skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing and eye protection. Use face protection where splash exposure is possible.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.



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P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P370+P378 In case of fire: Use foam, dry chemical powder or carbon dioxide to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable local, regional, national and international regulations.

2.3 Hazards not otherwise classified / Other hazards:

United States - Hazards associated with known or reasonably anticipated uses resulting from chemical reactions under 29 CFR 1910.1200(d)(1)(ii): None identified.

United States - Hazards not otherwise classified (HNOC): Non-applicable.

Canada - Health and physical hazards not otherwise classified (HHNOC - PHNOC): Not available.

Canada - Other hazards known to the supplier: Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable (mixture).

3.2 Mixtures: Mixture composed of additives in solvents.

CAS / unique identifier	Chemical name	Concentration (%)
Withheld / trade secret; Health Canada HMIRA Registry No. 3829211	Aliphatic alkoxyalkanol solvent	30 - <60%*
Withheld / trade secret; Health Canada HMIRA Registry No. 3829211	Petroleum Solvent	10 - <30%*
Withheld / trade secret; Health Canada HMIRA Registry No. 3829211	Hydrocarbon Solvent	10 - <30%*
Withheld / trade secret; Health Canada HMIRA Registry No. 3829211	Hydrotreated Aliphatic Hydrocarbon	10 - <30%*
Withheld / trade secret; Health Canada HMIRA Registry No. 3829211	Petroleum-based Oil	10 - <30%*

Remaining components are non-hazardous and/or present at amounts below reportable limits.

* Actual concentration or concentration range is withheld as confidential business information / trade secret. Canadian prescribed concentration ranges are used where applicable. Specific chemical identities are protected under Health Canada HMIRA Registry No. 3829211 (exemption granted 2025-12-18). Confidential identity and/or exact concentration information is withheld as a trade secret in accordance with 29 CFR 1910.1200(i).

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Inhalation: Remove person to fresh air and keep comfortable for breathing. If symptoms are significant or persist, call a POISON CENTER or doctor. If breathing has stopped, trained personnel should provide appropriate resuscitation and obtain emergency medical assistance.

Skin contact: Remove contaminated clothing and footwear. Wash affected skin with plenty of water and soap. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion / aspiration: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. If vomiting occurs spontaneously, keep the head below the hips to reduce aspiration risk.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed: Harmful effects if inhaled; respiratory irritation; central nervous system effects including drowsiness or dizziness; skin irritation; eye irritation; aspiration into the lungs may be fatal. Prolonged or repeated exposure may damage organs. See Sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically. Aspiration hazard requires prompt medical evaluation following ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Foam, dry chemical powder, or carbon dioxide.

Unsuitable extinguishing media: Do not use a direct water jet.

5.2 Specific hazards arising from the chemical: Combustible liquid. Combustion or thermal decomposition can generate carbon monoxide, carbon dioxide and other irritating or toxic organic decomposition products.

5.3 Special protective equipment and precautions for fire-fighters: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel, remove ignition sources, cool exposed containers from a safe distance where appropriate, and prevent fire-fighting runoff from entering waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Evacuate unnecessary personnel. Eliminate ignition sources. Provide adequate ventilation. Prevent formation of combustible vapor-air mixtures. Wear appropriate PPE as described in Section 8. Ground and bond conductive equipment where static accumulation is possible.

6.2 Environmental precautions: Prevent entry into drains, sewers, surface water and groundwater. Contain released material and notify the appropriate authority if a release threatens the public or environment.

6.3 Methods and materials for containment and cleaning up: Absorb with sand or other inert noncombustible absorbent and place in suitable closed containers for disposal. Do not use sawdust or other combustible absorbents. For releases to water, use barriers or other appropriate containment and mechanical recovery methods; obtain required approvals before using dispersants.

United States reporting: For releases exceeding applicable reportable quantities, refer to 40 CFR 302 and notify the National Response Center at 800-424-8802 as required.

6.4 Reference to other sections: See Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling: Wear protective gloves, clothing, and eye protection. Use face protection where splash exposure is possible. Keep containers tightly closed. Avoid skin and eye contact and breathing vapors or mist. Use adequate ventilation. Keep away from ignition sources. Transfer slowly and ground/bond equipment where static accumulation is possible. Do not eat, drink or smoke while handling; wash after use. Follow applicable U.S. and Canadian occupational health and safety requirements. See Section 8 for detailed personal protective equipment requirements.

7.2 Conditions for safe storage, including incompatibilities: Store in a cool, dry, well-ventilated location. Keep container tightly closed and store locked up. Protect from heat, ignition sources, direct sunlight, static discharge and incompatible materials. Keep away from food.

7.3 Specific end use(s): Diesel additive. No additional recommendations beyond those specified in this SDS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substance	U.S. OSHA PEL	ACGIH TLV (2022 source)	British Columbia	Alberta	Ontario
Aliphatic alkoxyalkanol solvent (Trade Secret) - Skin	100 ppm (600 mg/m ³) TWA	53 ppm TWA	100 ppm TWA; 150 ppm STEL	100 ppm (606 mg/m ³) 8-h; 150 ppm (909 mg/m ³) 15-min	--
Hydrocarbon Solvent (Trade Secret)	--	200 mg/m ³ TWA	200 mg/m ³ TWA	200 mg/m ³ 8-h	--



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8.2 Appropriate engineering controls: Use adequate general or local ventilation and other engineering controls as necessary to maintain airborne concentrations below applicable occupational exposure limits. Conduct a workplace hazard assessment for the task and jurisdiction.

Respiratory protection: If engineering controls cannot maintain airborne concentrations below applicable limits or acceptable levels, use suitable respiratory protection selected by a qualified professional.

Hand protection: Wear chemical-resistant protective gloves suitable for hydrocarbon/solvent exposure; select glove material and breakthrough time for the task using manufacturer information.

Eye/face protection: Wear safety glasses with side shields. Use chemical splash goggles and/or a face shield where splash exposure is possible.

Body protection: Wear protective clothing as needed to prevent skin contact. Remove contaminated clothing and wash before reuse.

Environmental exposure controls: Prevent uncontrolled release to the environment. Use containment where spills could enter drains or waterways.

Volatile organic compounds (VOC): 88.55% by weight.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical state	Liquid
Appearance	Clear Liquid
Color / colour	Colorless
Odor / odour	Mildly Petroleum-like
Odor threshold	Not available
Melting point/freezing point	Not available
Boiling point / initial boiling point / range	Not available
Flammability	Combustible liquid
Lower/upper flammability or explosive limits	Lower flammability: No Data Available ; Upper flammability: No Data Available
Flash point	>66 °C (>150 °F)
Autoignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Kinematic viscosity	≤20.5 mm ² /s at 40 °C (104 °F)
Solubility in water	Not available
Partition coefficient (n-octanol/water)	Not available
Vapor pressure	Not available
Relative vapor density	Not available
Density	Not available
Relative density	≈0.886 at 20 °C / 68 °F
Particle characteristics	Not applicable - liquid

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No hazardous reactions are expected because the product is stable under recommended storage conditions. See Section 7.

10.2 Chemical stability: Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions: Under the specified conditions, hazardous reactions leading to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid: Avoid increased temperature, heat and ignition sources, and direct sunlight. See Section 7.

10.5 Incompatible materials: Avoid strong acids, oxidizing materials, alkalis and strong bases.

10.6 Hazardous decomposition products: Depending on decomposition conditions, carbon dioxide, carbon monoxide and other organic compounds may be released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: Product-specific experimental toxicological data are not available. The assessment below is based on available ingredient information and applicable mixture classification principles.

Likely routes of exposure: Ingestion, inhalation, skin contact and eye contact.

Symptoms related to physical, chemical and toxicological characteristics: High inhalation exposure may cause headache, dizziness, vertigo, nausea, vomiting, confusion and, in serious cases, loss of consciousness. Vapors may irritate the respiratory tract. Skin contact causes irritation and eye contact causes irritation. Aspiration into the lungs following ingestion may cause severe lung injury and may be fatal.

Delayed and immediate effects; chronic effects: This product is classified as Carcinogenicity Category 2 (suspected of causing cancer) and Specific Target Organ Toxicity - Repeated Exposure Category 2 (may cause damage to organs through prolonged or repeated exposure).

Substance	Oral	Dermal	Inhalation
Aliphatic alkoxyalkanol solvent (Trade Secret)	LD50 >5000 mg/kg (rat)	LD50 9510 mg/kg (rabbit)	Not available
Petroleum Solvent (Trade Secret)	LD50 7050 mg/kg (rat)	LD50 3160 mg/kg (rabbit)	Not available
Hydrocarbon Solvent (Trade Secret)	LD50 5500 mg/kg (rat)	LD50 5500 mg/kg (rat)	LC50 inhalation vapor 11 mg/L

Mixture inhalation acute toxicity: Classified as Acute Toxicity (Inhalation) Category 4 (H332). Calculated mixture ATE: Not available.

Interactive effects: No relevant interaction information is readily available.

Carcinogenicity listings: Petroleum Solvent and Petroleum-based Oil are identified in NTP / regulatory carcinogen information. No California Proposition 65 cancer listing or OSHA specifically regulated carcinogen is identified.

Alternative information / methodology: Where product-specific data are unavailable, classification and toxicological conclusions are based on available component data, read-across where appropriate, and the mixture classification rules applicable under HCS 2024 and the HPR.

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available.

Supplemental environmental classification: Aquatic long-term Category 2 (H411 - Toxic to aquatic life with long lasting effects).

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Endpoint	Concentration	Species	Genus
Petroleum Solvent (Trade Secret)	LC50	45 mg/L (96 h)	Pimephales promelas	Fish



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Identification	Endpoint	Concentration	Species	Genus
	EC50	Not available		Crustacean
	EC50	2.5 mg/L (72 h)	Skeletonema costatum	Algae
Hydrocarbon Solvent (Trade Secret)	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
Hydrotreated Aliphatic Hydrocarbon (Trade Secret)	LC50	>1 - 10 mg/L (96 h)		Fish
	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Endpoint	Concentration	Species	Genus
Aliphatic alkoxyalkanol solvent (Trade Secret)	NOEC	Not available		
	NOEC	0.5 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Identification	Degradability	Value	Biodegradability	Value
Aliphatic alkoxyalkanol solvent (Trade Secret)	BOD5	Not available	Concentration	Not available
	COD	0 g O2/g	Period	28 days
	BOD5/COD	Not available	% Biodegradable	73%

12.3 Bioaccumulative potential:

Identification	Bioaccumulation parameter	Value
Aliphatic alkoxyalkanol solvent (Trade Secret)	BCF	1
	Log Pow	-0.06
	Potential	Low
Petroleum Solvent (Trade Secret)	BCF	159
	Log Pow	4.5
	Potential	High
Hydrocarbon Solvent (Trade Secret)	BCF	5800
	Log Pow	5.25
	Potential	Very High
Hydrotreated Aliphatic Hydrocarbon (Trade Secret)	BCF	130
	Log Pow	3.3
	Potential	High

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment: Not available.

12.6 Other adverse effects: Not described.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods: Do not discharge product or waste to drains. Dispose of product, contaminated absorbents and containers through an authorized waste service in accordance with applicable federal/national, state/provincial and local requirements. Empty containers may retain hazardous residues.

United States: Evaluate waste under the RCRA framework and applicable EPA requirements; state requirements may be more stringent.

Canada: Manage waste in accordance with applicable federal/provincial requirements, including the Canadian Environmental Protection Act, 1999 where applicable.

SECTION 14: TRANSPORT INFORMATION

14.1-14.7 United States - U.S. DOT / 49 CFR:

Item	U.S. DOT information
Identification number	NA1993
Proper shipping name	Combustible liquid, n.o.s. (Hydrocarbon Solvent; Petroleum Solvent)
Hazard class	Combustible Liquid
Packing group	III
Marine pollutant	Yes
Special provisions	49 CFR 173.150 may allow non-hazardous treatment for certain non-bulk containers under 120 gallons; marine-pollutant requirements may not apply to specified non-bulk highway/rail/air shipments under 49 CFR 171.4.

Canada - TDG:

Item	Canada TDG information
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum Solvent)
Class	9
Packing group	III
Environmental hazard	Yes

Sea - IMDG 42-24: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum Solvent); Class 9; PG III; Marine pollutant: Yes; EmS F-A, S-F; limited quantity 5 L; special provisions 335, 969, 274.

Air - IATA/ICAO: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum Solvent); Class 9; PG III; environmental hazard: Yes.

Transport limitations: This product is not packaged or prepared for transport in accordance with IMDG or IATA/ICAO requirements and is not intended to be shipped by sea or air.



SECTION 15: REGULATORY INFORMATION

15.1 United States:

- California Labor Code - The Hazardous Substances List: Aliphatic alkoxyalkanol solvent (Trade Secret).
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Non-applicable.
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable.
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable.
- Hazardous Air Pollutants (Clean Air Act): Non-applicable.
- Massachusetts RTK - Substance List: Aliphatic alkoxyalkanol solvent (Trade Secret); Petroleum Solvent (Trade Secret); Hydrocarbon Solvent (Trade Secret); Petroleum-based Oil (Trade Secret).
- Minnesota - Hazardous substances ERTK: Aliphatic alkoxyalkanol solvent (Trade Secret); Petroleum Solvent (Trade Secret); Petroleum-based Oil (Trade Secret).
- New Jersey Worker and Community Right-to-Know Act: Aliphatic alkoxyalkanol solvent (Trade Secret); Petroleum Solvent (Trade Secret); Hydrocarbon Solvent (Trade Secret); Petroleum-based Oil (Trade Secret).
- New York RTK - Substance list: Aliphatic alkoxyalkanol solvent (Trade Secret); Hydrocarbon Solvent (Trade Secret).
- NTP (National Toxicology Program): Petroleum Solvent (Trade Secret); Petroleum-based Oil (Trade Secret).
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable.
- Pennsylvania Worker and Community Right-to-Know Law: Aliphatic alkoxyalkanol solvent (Trade Secret); Petroleum Solvent (Trade Secret); Hydrocarbon Solvent (Trade Secret); Petroleum-based Oil (Trade Secret).
- Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: Aliphatic alkoxyalkanol solvent (Trade Secret).
- Rhode Island - Hazardous substances RTK: Non-applicable.
- SB-258 Cleaning Product Right to Know Act: Hydrocarbon Solvent (Trade Secret); Petroleum-based Oil (Trade Secret).
- Toxic Substances Control Act (TSCA): All components are listed or exempt.
- Toxic chemical release reporting under EPCRA Section 313 (40 CFR Part 372): Non-applicable.

15.1 Canada:

- Domestic Substances List (DSL): Aliphatic alkoxyalkanol solvent (Trade Secret); Petroleum Solvent (Trade Secret); Hydrocarbon Solvent (Trade Secret); Hydrotreated Aliphatic Hydrocarbon (Trade Secret); Petroleum-based Oil (Trade Secret).
- Non-Domestic Substances List (NDSL): Not available.
- Canadian Environmental Protection Act, 1999.
- Canada WHMIS Confidential Business Information (CBI): HMIRA Registry No. 3829211; exemption granted 2025-12-18.
- Other applicable federal, state/provincial and local requirements may apply.

SECTION 16: OTHER INFORMATION

Regulatory basis: Prepared to address the information requirements of 29 CFR 1910.1200, including Appendices C and D (HCS 2024), and Part 4 / Schedule 1 of the Canadian Hazardous Products Regulations, including amendments under SOR/2022-272.

Principal references:

- Occupational Safety and Health Administration (OSHA), 29 CFR 1910.1200 and Appendices C/D.
- Health Canada, Workplace Hazardous Materials Information System (WHMIS) / Hazardous Products Regulations supplier guidance.
- United Nations, Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 7th Revised Edition.

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Disclaimer: The information contained in this safety data sheet is based on sources, technical knowledge and current legislation. This information cannot be considered a guarantee of the properties of the product; it is a description of the safety requirements. The occupational methodology and conditions of use are outside the supplier's direct control. The information in this SDS refers only to this product and the uses specified herein.