

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : HDL90
Product code : 3104-300-24, 3104-1-12, 3104-4-4, 3104-10-1, 3104-20-1, 3104-205-1

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Diesel, gas and gear oil additive
Restrictions on use : No additional information available

1.3. Supplier

Supplier

Awsun Outcomes Inc
Bay 5, 409 38th Avenue NE
Calgary, Alberta, T2E 6R9
Canada
T 1 587-353-2000; Toll Free: 1-844-512-4093
info@awsum.global - www.awsum.global

1.4. Emergency telephone number

Emergency number : Toll Free 1-844-512-4093 M-F 8 am-4 pm (English only)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	% (w/w)	GHS US classification
Alkanes, C24-28, chloro	CAS-No.: 1402738-52-6	≥ 20 – ≤ 40	Not classified
Distillates (petroleum), hydrotreated light naphthenic	CAS-No.: 64742-53-6	≥ 20 – ≤ 40	Asp. Tox. 1, H304
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based Baseoil - unspecified	CAS-No.: 72623-86-0	≥ 10 – ≤ 30	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic Baseoil - unspecified	CAS-No.: 64742-65-0	≥ 1 – ≤ 5	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed light paraffinic Baseoil - unspecified	CAS-No.: 64742-56-9	≥ 1 – ≤ 5	Asp. Tox. 1, H304
Diethyl phthalate	CAS-No.: 84-66-2	≥ 0.1 – < 1	Acute Tox. 3 (Inhalation), H331

Comments : The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. Get medical attention if symptoms occur.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation : At high concentrations, the vapors can be irritating to the respiratory system.

Symptoms/effects after skin contact : Rednesses. Itching. Swelling.

Symptoms/effects after eye contact : Blurred vision. Redness, itching, tears.

Symptoms/effects after ingestion : Abdominal pain, nausea.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically. Keep under medical supervision for at least 48 hours.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide. Water spray. Foam. Use extinguishing agent suitable for surrounding fire.

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

5.2. Specific hazards arising from the chemical

Fire hazard : Presents no particular fire or explosion hazard. Burning produces stinking and toxic fumes. In case of fire and/or explosion do not breathe fumes.

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Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. Carbonyl halides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate the danger area. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Fight fire from safe distance and protected location. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/ flame resistant/retardant clothing. Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing vapors. Do not touch or walk on the spilled product. No action shall be taken without appropriate training or involving any personal risk.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Caution : this product can cause the floor to be slippery.

Methods for cleaning up : Move containers from spill area. Recover small spills with a suitable absorbent, like diatomaceous earth. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Ventilate spillage area. Clean contaminated surfaces with an excess of water. Prevent entry to sewers and public waters.

Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. 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 : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Do not breathe vapors. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. 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. Wash contaminated clothing before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Strong oxidizers, Store in a dry place. Keep away from food, drink and animal feed. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in accordance with local, regional, national or international regulation.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethyl phthalate (84-66-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Diethyl phthalate
ACGIH OEL TWA	5 mg/m ³
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024
Monitoring methods	
Monitoring methods	Refer to all applicable national, international and local regulations or provisions. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents. Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy. Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. Ensure exposure is below occupational exposure limits (where available). Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Avoid contact during pregnancy/while nursing.

Environmental exposure controls : Avoid release to the environment. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the NIOSH standards and in discussion with the supplier of the protective equipment.

Hand protection:
Chemical resistant gloves (according to NIOSH standard). Please follow the instructions related to the permeability and the penetration time provided by the manufacturer
Eye protection:
Chemical goggles or safety glasses
Skin and body protection:
Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided
Respiratory protection:
Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134 and NIOSH Standards

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Golden clear
Odor	: Vanilla
Odor 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	: 202 °C (395.6 °F, open cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.9935 g/cm ³ (15 °C, 59 °F)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 82.31 mm ² /s (40 °C, 104 °F) (9.85 mm ² /s, 100 °C, 212 °F)
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Other properties : Pour point: -30 °C (-22 °F). TBN Base: 0. Fire Pt: 214 °C (417.2 °F). TAN Acid: 1.39. Solids: none. Rust Prevention: pass. Copper Corrosion: 1A Shiny. Elastomer: pass. Foaming: pass. Four ball wear: 0.66 mm. Sulphated ash: 0.00 %. Viscosity Index: 98.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization: Will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating. Extremely high or low temperatures.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Diethyl phthalate (84-66-2)	
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : 82.31 mm²/s (40 °C, 104 °F) (9.85 mm²/s, 100 °C, 212 °F)
Symptoms/effects after inhalation : At high concentrations, the vapors can be irritating to the respiratory system.
Symptoms/effects after skin contact : Rednesses. Itching. Swelling.
Symptoms/effects after eye contact : Blurred vision. Redness, itching, tears.
Symptoms/effects after ingestion : Abdominal pain, nausea.
Other information : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Do not allow product to spread into the environment.

12.2. Persistence and degradability

HDL90	
Persistence and degradability	Biodegradability in water: no data available.

12.3. Bioaccumulative potential

HDL90	
Bioaccumulative potential	No data available concerning bioaccumulation.

12.4. Mobility in soil

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Ecology - soil	No additional information available.

12.5. Other adverse effects

Other adverse effects : No additional information available.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not regulated
Proper Shipping Name (TDG)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT)	: Not regulated
Packing group (TDG)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

Alkanes, C24-28, chloro	CAS-No. 1402738-52-6	≥ 20 – ≤ 40%
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Diethyl phthalate (84-66-2)

CERCLA RQ	1000 lb
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15.2. International regulations

CANADA

Alkanes, C24-28, chloro (1402738-52-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Listed on the Canadian DSL (Domestic Substances List)

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based Baseoil - unspecified (72623-86-0)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), solvent-dewaxed heavy paraffinic Baseoil - unspecified (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List)

Distillates (petroleum), solvent-dewaxed light paraffinic Baseoil - unspecified (64742-56-9)

Listed on the Canadian DSL (Domestic Substances List)

Diethyl phthalate (84-66-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based Baseoil - unspecified (72623-86-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates (petroleum), solvent-dewaxed heavy paraffinic Baseoil - unspecified (64742-65-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Diethyl phthalate (84-66-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Training advice : Training staff on good practice.

Full text of hazard classes and H-statements

H304	May be fatal if swallowed and enters airways
H331	Toxic if inhaled

Safety Data Sheet (SDS), USA

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.