



Diesel Antifreeze

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Date of issue: 9/22/2015 Revision date: 9/22/2015 Supersedes: 4/2/2014

Version: 3.3

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

1.1. Product identifier

Product form : Mixture
Article number : 02500
Product code : 025

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

1.2.1. Relevant identified uses

Function or use category : Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

BARDAHL NL - OCD NEDERLAND BV
Maxwellstraat 41
3316 GP Dordrecht - Nederland
T 0031 78 651 2322 - F 0031 78 617 4848
rjonker@bardahl.nl - www.bardahl.nl

1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010
During office hours: 8.30 t/m 17:00 h

Country	Organization/Company	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids Category 3 H226
Aspiration hazard Category 1 H304
Hazardous to the aquatic environment - Chronic Hazard Category 2 H411
Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02



GHS08



GHS09



GHS07

Signal word (CLP) : Danger

Hazardous ingredients : Hydrocarbons, C10, Aromatics, >1% Naphtalene, Hydrocarbons, C9, aromatics

Hazard statements (CLP) : H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H411 - Toxic to aquatic life with long lasting effects
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) : P273 - Avoid release to the environment
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor
P370+P378 - In case of fire: Use sodium carbonate to extinguish
P331 - Do NOT induce vomiting

EUH phrases : EUH066 - Repeated exposure may cause skin dryness or cracking

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Security closing plug for children. : No
Tactile warning : No

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : May be harmful in contact with skin. Toxic to aquatic life.

PBT: not relevant – no registration required

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C9, aromatics	(EC no) 918-668-5 (REACH-no) 01-2119455851-35	50 - 100	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C10, Aromatics, >1% Naphtalene	(CAS No) 64742-94-5 (EC no) 919-284-0 (REACH-no) 01-2119463588-24	5 - 10	Carc. 2, H351 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

First-aid measures after inhalation : Obtain emergency medical attention. Assure fresh air breathing. When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration.

First-aid measures after skin contact : Avoid contact with skin. Wash contaminated clothing before reuse. For even minor contact, immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Rub greasy cream into the skin.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical attention if irritation develops.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Obtain emergency medical attention.

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

Symptoms/injuries : Respiratory complaints. May cause drowsiness or dizziness. Prolonged or repeated contact may cause skin to become dry or cracked. Irritating to respiratory system.

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

Aspiration hazard. Keep the victim warm. Allow the victim to rest.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream. Hazardous waste due to potentially low flash point.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture. Vapors can spread and a blowtorch to return itself to an ignition source. Vapor explosion indoors, outdoors or in sewers. The substances are marked with a "P" may polymerize explosively when they are heated or get involved in a fire. Runoff to sewer may create fire or explosion hazard. The substance can be transported in a hot state. Keep product and empty containers away from heat and ignition sources.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

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Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not breathe gas, fumes, vapour or spray.
Other information	: Avoid (reject) fire-fighting water to enter environment. Toxic to aquatic organisms.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : May be dangerously slippery if spilled.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not breathe gas/fumes/vapour/spray.

Emergency procedures : Ventilate area. Keep away from sources of ignition - No smoking. Use special care to avoid static electric charges.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Use suitable disposal containers.

6.4. Reference to other sections

See Heading 8. See Heading 12.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Notify authorities if liquid enters sewers or public waters.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Good ventilation of the workplace required. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Do not breathe gas, fumes, vapour or spray. Wear suitable respiratory equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Wear suitable protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area. Store in original container. Keep container closed when not in use. Provide for an automatic sprinkler system.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Wear suitable gloves tested to EN374. Wear suitable gloves resistant to chemical penetration. Refer to manufacturer's information.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear fire/flamm resistant/retardant clothing. Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear a self contained breathing apparatus. EN 137. Filtertype: ABEK1/ABEK2

Environmental exposure controls : Prevent entry to sewers and public waters.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Dark brown.

Odor : characteristic.

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

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Freezing point	: No data available
Boiling point	: > 150 °C
Flash point	: 40 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.882 g/cm ³ (20°)
Solubility	: Water: < 1 %
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

acids. Bases.

10.6. Hazardous decomposition products

Nitrogen oxides. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Hydrocarbons, C9, aromatics	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

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
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

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Hydrocarbons, C10, Aromatics, >1% Naphtalene (64742-94-5)	
LC50 fish 1	3.5 mg/l
EC50 Daphnia 1	6.5 mg/l
EC50 72h algae [mg/l] 1	2 mg/l

Hydrocarbons, C9, aromatics	
LC50 fish 1	9.2 mg/l (Oncorhynchus mykiss 96h)
EC50 Daphnia 1	1 - 10 mg/l
EC50 Daphnia 2	3.2 mg/l
ErC50 (algae)	2.9 mg/l (Pseudokirchneriella subcapitata 72h)
NOEC (acute)	1 mg/l (Pseudokirchneriella subcapitata 72h)

12.2. Persistence and degradability

02500	
Persistence and degradability	Not established.

Hydrocarbons, C9, aromatics	
Biodegradation	78 % (672h)

12.3. Bioaccumulative potential

02500	
Bioaccumulative potential	Not established.

Hydrocarbons, C10, Aromatics, >1% Naphtalene (64742-94-5)	
BCF fish 1	2.9 - 6.1

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

02500	
PBT: not relevant – no registration required	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Recycle after cleaning.
EURLW code	: The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue)

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 1993
UN-No. (IMDG)	: 1993
UN-No. (IATA)	: 1993
UN-No. (ADN)	: 1993
UN-No. (RID)	: 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S. (SOLVENT NAPHTHA (PETROLEUM), LIGHT ARMOATIC (BENZENE <0.1% W/W) * HYDROCARBONS, C10, AROMATICS, >1% NAPHTALENE)
Proper Shipping Name (IATA)	: FLAMMABLE LIQUID, N.O.S. (SOLVENT NAPHTHA (PETROLEUM), LIGHT ARMOATIC (BENZENE <0.1% W/W)
Proper Shipping Name (ADN)	: BRANDBARE VLOEISTOF. N.E.G. (OPLOSMIDDELNAFTA (AARDOLIE), LICHT AROMATISCHE (BENZEEN <0.1% M/M)
Proper Shipping Name (RID)	: Not applicable
Transport document description (ADR)	: UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S. (SOLVENT NAPHTHA (PETROLEUM), LIGHT ARMOATIC (BENZENE <0.1% W/W) * HYDROCARBONS, C10, AROMATICS, >1% NAPHTALENE), 3, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS

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14.3. Transport hazard class(es)

ADR	
Transport hazard class(es) (ADR)	: 3
Hazard labels (ADR)	: 3
:	:
	
IMDG	
Transport hazard class(es) (IMDG)	: 3
Hazard labels (IMDG)	: 3
:	:
	
IATA	
Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3
:	:
	
ADN	
Transport hazard class(es) (ADN)	: 3
:	:
	
RID	
Transport hazard class(es) (RID)	: 3
Hazard labels (RID)	: 3
:	:
	

14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

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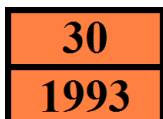
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14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: F1
Special provision (ADR)	: 274, 601, 640E
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Hazard identification number (Kemler No.)	: 30
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC	: •3YE

- Transport by sea

EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E

- Air transport

PCA Excepted quantities (IATA)	: E1
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- Inland waterway transport

No data available

- Rail transport

No data available

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. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no REACH candidate substance
Contains no REACH Annex XIV substances.

15.1.2. National regulations

France

Professional diseases	: RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel
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Germany

VwVwS Annex reference	: Water hazard class (WGK) 2, hazardous to water (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Class for fire hazard	: Class II-1
Store unit	: 5 liter

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Classification remarks	: R10 <H226;H304;H411;H335;H336>; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No

SECTION 16: Other information

Indication of changes:

	Irritation - comment	Added	
	Acute toxicity - comment	Added	
	Aspiration hazard - comment	Modified	
1.2	Function or use category	Added	
1.2	Main use category	Removed	
1.2	Industrial/Professional use spec	Removed	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	EUH phrases	Added	
3	Composition/Information on ingredients	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures general	Modified	
4.2	Symptoms/injuries after inhalation	Removed	
4.2	Symptoms/injuries	Added	
4.3	Other medical advice or treatment	Modified	
5.1	Unsuitable extinguishing media	Modified	
5.1	Suitable extinguishing media	Modified	
5.2	Fire hazard	Added	
5.2	Explosion hazard	Added	
5.3	Firefighting instructions	Modified	
5.3	Other information	Modified	
6.1	General measures	Modified	
6.1	Emergency procedures	Modified	
6.2	Environmental precautions	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Precautions for safe handling	Modified	

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7.2	Incompatible products	Removed	
7.2	Storage conditions	Modified	
7.3	Specific end uses	Removed	
8.2	Environmental exposure controls	Modified	
8.2	Other information	Removed	
8.2	Personal protective equipment	Removed	
8.2	Respiratory protection	Modified	
8.2	Skin and body protection	Modified	
8.2	Eye protection	Modified	
8.2	Hand protection	Modified	
9.1	Specific gravity / density	Modified	
9.1	Boiling point	Modified	
9.1	Appearance	Removed	
10.2	Chemical stability	Added	
10.3	Possibility of hazardous reactions	Added	
10.4	Conditions to avoid	Removed	
10.5	Incompatible materials	Modified	
11.1	Potential Adverse human health effects and symptoms	Removed	
12.1	Ecology - general	Added	
13.1	EURLW code	Added	
13.1	Waste disposal recommendations	Modified	
15.1	Class	Added	
15.1	Professional diseases	Added	
15.2	Chemical safety assessment	Modified	

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent.

Full text of H- and EUH-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Flam. Liq. 3	Flammable liquids Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H335	May cause respiratory irritation

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H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects
EUH066	Repeated exposure may cause skin dryness or cracking

SDS EU (REACH Annex II)

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