

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Reference number: 3206

Issue date: 03-05-16 Revision date: 13-10-20 Supersedes version of: 29-05-18 Version: 2.1

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

1.1. Product identifier

Product form : Mixture

Product name : TURBO CLEANER BARDAHL

Product code : 3206 # 736320R4
Type of product : Detergent

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Consumer use 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

Distributor

SADAPS BARDAHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI - BELGIQUE

T +32 (0).69.59.03.60 - F +32 (0).69.59.03.61 msds@bardahlfrance.com - www.bardahl.fr

Supplier

SADAPS BARDAHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI - BELGIQUE

T +32 (0).69.59.03.60 - F +32 (0).69.59.03.61 msds@bardahlfrance.com - www.bardahl.fr

1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324189 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674 Abu Dhabi	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aspiration hazard, Category 1

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H304

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Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

GHS08

Signal word (CLP) : Danger

Contains : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P262 - Do not get in eyes, on skin, or on clothing.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 - Do NOT induce vomiting.

P405 - Store locked up.

P501 - Dispose of contents/container to a hazardous or special waste collection point.

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

Child-resistant fastening : Applicable Tactile warning : Applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	(EC-No.) 918-481-9 (REACH-no) 01-2119457273-39	80-100	Asp. Tox. 1, H304
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	(CAS-No.) 246538-78-3 (EC-No.) 920-901-0 (REACH-no) 01-2119456810-40	<3	Asp. Tox. 1, H304
1,1'-Bis-(ferrocenyl)octane	(EC-No.) 479-710-1	<0.3	Repr. 1B, H360FD STOT RE 2, H373 Aquatic Chronic 4, H413
naphthalene substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, CH, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE)	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2	<0.01	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If medical advice is needed, have

product container or label at hand.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing.

First-aid measures after skin contact : Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing

before reuse.

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.

First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Foam.

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

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation,

especially in confined areas. Keep public away from danger area. Equip cleanup crew with

proper protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. 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

For containment : Recover the product with absorbent material.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

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6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. Storage conditions : Store in a closed container. Keep out of frost.

Heat and ignition sources : Keep away from naked flames/heat. Keep away from ignition sources.

Storage area : Store in a dry place. Store in a well-ventilated place.

Special rules on packaging : Store in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics		
France - Occupational Exposure Limits		
VME [mg/m³] 1200 mg/m³		
VME [ppm]	184 ppm	
Norway - Occupational Exposure Limits		
Grenseverdier (AN) (mg/m³) 275 mg/m³		
Grenseverdier (AN) (ppm) 50 ppm		

naphthalene (91-20-3)		
EU - Occupational Exposure Limits		
IOELV TWA (mg/m³)	50 mg/m³	
IOELV TWA (ppm)	10 ppm	
Austria - Occupational Exposure Limits		
MAK Daily average value (mg/m³)	50 mg/m³	
MAK Daily average value (ppm)	10 ppm	
Belgium - Occupational Exposure Limits		
Limit value [mg/m³]	53 mg/m³	
Limit value [ppm]	10 ppm	
Short time value [mg/m³]	80 mg/m³	
Short time value [ppm]	15 ppm	
Denmark - Occupational Exposure Limits		
Grænseværdi (8 timer) (mg/m³)	50 mg/m³	
Grænseværdi (8 timer) (ppm)	10 ppm	

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manh4halana (04 20 2)	
naphthalene (91-20-3) Grænseværdi (STEL) (mg/m³)	100 mg/m³
	-
Grænseværdi (STEL) (ppm)	20 ppm
Finland - Occupational Exposure Limits	F
HTP-arvo (8h) (mg/m³)	5 mg/m³
HTP-arvo (8h) (ppm)	1 ppm
HTP-arvo (15 min)	10 mg/m³
HTP-arvo (15 min) (ppm)	2 ppm
France - Occupational Exposure Limits	
VME [mg/m³]	50 mg/m³
VME [ppm]	10 ppm
Germany - Occupational Exposure Limits (TRGS 90	0)
Occupational exposure limit value (mg/m³)	2 mg/m³
Occupational exposure limit value (ppm)	0,4 ppm
Hungary - Occupational Exposure Limits	
AK-érték	50 mg/m³
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	50 mg/m³
OEL (8 hours ref) (ppm)	10 ppm
Italy - Occupational Exposure Limits	
OEL TWA (mg/m³)	50 mg/m³
OEL TWA (ppm)	10 ppm
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m³)	50 mg/m³
OEL TWA (ppm)	10 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	50 mg/m³
Grenswaarde TGG 15MIN (mg/m³)	80 mg/m³
Poland - Occupational Exposure Limits	
NDS (mg/m³)	20 mg/m³
NDSCh (mg/m³)	50 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA (mg/m³)	50 mg/m³
OEL TWA (ppm)	9,5 ppm
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	53 mg/m³
VLA-ED (ppm)	10 ppm
VLA-EC (mg/m³)	80 mg/m³
VLA-EC (ppm)	15 ppm
Sweden - Occupational Exposure Limits	I
nivågränsvärde (NVG) (mg/m³)	50 mg/m³
nivågränsvärde (NVG) (ppm)	10 ppm
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naphthalene (91-20-3)		
kortidsvärde (KTV) (mg/m³)	80 mg/m³	
kortidsvärde (KTV) (ppm)	15 ppm	
United Kingdom - Occupational Exposure Limits		
WEL TWA (mg/m³)	53 mg/m³	
WEL TWA (ppm)	10 ppm	
WEL STEL (mg/m³)	80 mg/m³	
WEL STEL [ppm]	15 ppm	
Switzerland - Occupational Exposure Limits		
MAK (mg/m³)	50 mg/m³	
MAK (ppm)	10 ppm	
Turkey - Occupational Exposure Limits		
OEL TWA (mg/m³)	50 mg/m³	
OEL TWA (ppm)	10 ppm	
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	50 mg/m³	
ACGIH TWA (ppm)	10 ppm	

8.2. Exposure controls

Hand	protection:
Hana	protection.

Gloves EN 374

Gloves. EIN 374					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)		3 (> 0.65)	EN ISO 374

Eye	protection:
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Safety glasses. EN 166

Туре	Use	Characteristics	Standard
Safety glasses		With side shields	EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Good ventilation of the workplace required. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

Personal protective equipment symbol(s):





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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : clear.

Colour : brown. orange. Odour : No data available Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available : No data available Boiling point

Flash point : 63 °C

: No data available Auto-ignition temperature No data available Decomposition temperature Flammability (solid, gas) No data available : No data available Vapour pressure : No data available Relative vapour density at 20 °C Relative density : No data available Density : 0,789 g/cm3 (20°C) Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : < 20 mm²/s (40°C) Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LD50 oral rat > 5000 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	4951 mg/m³ 4 hours

naphthalene (91-20-3)	
LD50 oral	490 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	> 2500 mg/kg
LC50 Inhalation - Rat	> 340 mg/m³

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (246538-78-3)	
LD50 oral	> 10000 mg/kg
LD50 dermal	> 3160 mg/kg

1,1'-Bis-(ferrocenyl)octane	
LD50 oral rat	> 2000 (OECD 423)
LD50 dermal rat	> 2000 (OECD 402)

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

: Not classified

TURBO CLEANER BARDAHL	
Viscosity, kinematic	< 20 mm²/s (40°C)

SECTION 12: Ecological information

12.1. Toxicity

STOT-repeated exposure

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LC50 fish 1	> 1000 mg/l
EC50 Daphnia 1	> 1000 mg/l

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EC50 72h algae (1)	> 1000 mg/l

Hydrocarbons, C10, aromatics, >1% naphthalene	
LC50 fish 1	2 mg/l 4 days
EC50 other aquatic organisms 1	3 mg/l aquatic invertebrates
EC50 other aquatic organisms 2	1,1 mg/l algae

naphthalene (91-20-3)	
LC50 fish 2	≥ 2350 µg/l 48 hours
EC50 Daphnia 1	1,96 mg/l 48 hours

1,1'-Bis-(ferrocenyl)octane	
LC50 fish 1	> 0,5 mg/l (OECD 203)
EC50 Daphnia 1	> 0,36 mg/l (OECD 202)
EC50 72h algae (1)	> 0,36 mg/l (OECD 201)

12.2. Persistence and degradability

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Biodegradation	80 % 28 days

Hydrocarbons, C10, aromatics, >1% naphthalene	
Biodegradation	58 % 28 days

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics (246538-78-3)	
Persistence and degradability	Readily biodegradable.

1,1'-Bis-(ferrocenyl)octane	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

1,1'-Bis-(ferrocenyl)octane	
Partition coefficient n-octanol/water (Log Pow)	4,6
Bioaccumulative potential	High potential (3).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local

legislation.

Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

Ecology - waste materials : Do not discharge the product into the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	RID	
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol 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 substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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Detergent Regulation (648/2004/EC): Labelling of contents:		
Component	%	
aliphatic hydrocarbons	≥30%	
aromatic hydrocarbons	<5%	

15.1.2. National regulations

France

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

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG)

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

Hazardous Incident Ordinance (12. BImSchV)

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed

Denmark

Class for fire hazard : Class III-1 Store unit : 50 liter

Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines

for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 2	Carcinogenicity, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H351	Suspected of causing cancer.	
H360FD	May damage fertility. May damage the unborn child.	

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H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
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.