

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 20/01/2015 Revision date: 06/12/2021 Supersedes version of: 26/06/2018 Version: 1.4

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

## 1.1. Product identifier

Product form : Mixture
Name : Turbo Cleaner

UFI : PR0E-37UX-490H-V0A3

Product code : 03206
Type of product : Detergent
Article number : 03206

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Consumer use

Professional 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

BARDAHL NL - OCD NEDERLAND BV Maxwellstraat 41 3316 GP Dordrecht Nederland T 0031 78 651 2322 - F 0031 78 617 4848

1 0031 78 651 2322 - F 0031 78 617 4848 mjkooijman@bardahl.nl - www.bardahl.nl

# 1.4. Emergency telephone number

Emergency number : +31 (0) 6 54924171

During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	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	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

# **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 H304

Full text of H- and EUH-statements: see section 16

# Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS0

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 container to to a hazardous or special waste collection point.

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

#### 2.3. Other hazards

FUH-statements

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Not applicable

## 3.2. Mixtures

Comments : Detergent Regulation (648/2004/EC):

aliphatic hydrocarbons ≥ 30% aromatic hydrocarbons <5%

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
Hydrocarbures, C11/C13, isoalkanes, <2% aromatiques	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	CAS-No.: 91-20-3 EC-No.: 202-049-5 EC Index-No.: 601-052-00-2	≤ 0.1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-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 swallowed, seek medical advice

immediately and show this container or label.

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 : Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

Wash skin with plenty of water.

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 : Prolonged or repeated contact may cause skin to become dry or cracked.

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. Foam. Dry powder.

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 will generate poisonous 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 : Keep public away from danger ar

: Keep public away from danger area. Eliminate every possible source of ignition. Evacuate area. Equip cleanup crew with proper protection. Ensure adequate ventilation, especially in confined areas.

#### 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

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Dike for recovery or absorb with appropriate material.

#### 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.

Incompatible materials : Freezing. heat. Sources of ignition.

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

Special rules on packaging : Keep only in original container.

## 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

naphthalene (91-20-3)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA 52 mg/m³			
OEL TWA [ppm] 10 ppm			
IOEL STEL 79 mg/m³			
OEL STEL [ppm] 15 ppm			
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1] 50 mg/m³			

# 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

Additional information : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

# 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

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#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses.

## Personal protective equipment symbol(s):







#### 8.2.2.1. Eye and face protection

Eye protection				
Type Field of application Characteristics Standard				
Safety glasses		With side shields	EN 166	

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

Hand protection					
Type Material Permeation Thickness (mm) Penetration Standard					Standard
Safety gloves	Nitrile rubber (NBR)	6 (> 480 minutes)		3 (> 0.65)	EN ISO 374

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Ensure good ventilation of the work station. Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment

# 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : brown. orange. Appearance : clear. : Not available Odour Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : Not available : Not available Flammability Lower explosion limit : Not available Upper explosion limit : Not available Flash point : 63 °C Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available : < 210 mm<sup>2</sup>/s 40°C Viscosity, kinematic

Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : 0.789 g/cm³

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Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

## 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Stable under normal conditions.

## 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Open flame. Sparks. Heat. 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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified 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 rat	> 5000 mg/kg		
LC50 Inhalation - Rat	> 4900 mg/m³		
naphthalene (91-20-3)	naphthalene (91-20-3)		
LD50 oral rat	2600 mg/kg		
LD50 dermal rat	> 2500 mg/kg		
1,1'-Bis-(ferrocenyl)octane			
_D50 oral rat > 2000 OECD 423			
LD50 dermal rat	> 2000 OECD 402		
kin corrosion/irritation : Not classified			

Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified

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Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

# 1,1'-Bis-(ferrocenyl)octane

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

Turbo Cleaner

Viscosity, kinematic < 210 mm²/s 40°C

#### 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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]	2 mg/l (4 days)		
EC50 - Crustacea [1]	3 mg/l (aquatic invertebrates)		
EC50 72h - Algae [1]	1.1 mg/l		
naphthalene (91-20-3)			
C50 - Fish [1] 0.51 mg/l			
EC50 - Crustacea [1]	3.4 mg/l		
1,1'-Bis-(ferrocenyl)octane			
LC50 - Fish [1] > 0.5 mg/l OECD 203			
EC50 - Crustacea [1] > 0.36 mg/l OECD 202			
EC50 72h - Algae [1] > 0.36 mg/l OECD 201			

# 12.2. Persistence and degradability

Turbo Cleaner			
Biodegradation	3 %		
Hydrocarbons, C10-C13, n-alkanes, isoalkane	s, cyclics <2% aromatics		
Biodegradation	Biodegradation 80 % (28 days)		
naphthalene (91-20-3)			
Persistence and degradability Inherently biodegradable.			
1,1'-Bis-(ferrocenyl)octane			
Persistence and degradability Almost not biodegradable.			

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## 12.3. Bioaccumulative potential

1,1'-Bis-(ferrocenyl)octane		
Partition coefficient n-octanol/water (Log Pow)	4.6	
Bioaccumulative potential	Bioaccumulation potential.	

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods
Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information Ecology - waste materials : Dispose of this material and its container at hazardous or special waste collection point.

: Do not discharge into drains or the environment.

 $: \ \, \text{Collect all waste in suitable and labelled containers and dispose according to local} \\$ 

legislation.

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

: Avoid release to the environment.

# **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
4.1. UN number or ID n	umber			
lot regulated for transport				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.3. Transport hazard	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

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## 14.6. Special precautions for user

#### **Overland transport**

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### **Inland waterway transport**

No data available

#### Rail transport

No data available

#### 14.7. Maritime transport in bulk according to IMO instruments

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

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)			
Reference code Applicable on			
3.	Turbo Cleaner ; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics <2% aromatics		
3(b)	Turbo Cleaner ; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics <2% aromatics		

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

# Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

# **Detergent Regulation (648/2004)**

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

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# **SECTION 16: Other information**

Indication of changes				
Section	Changed item	Change	Comments	
	Type of product	Added		
2.2	Precautionary statements (CLP)	Modified		
3	Composition/information on ingredients	Modified		
4.1	First-aid measures after eye contact	Modified		
4.1	First-aid measures after inhalation	Modified		
4.1	First-aid measures after skin contact	Modified		
5.3	Protection during firefighting	Modified		
5.3	Firefighting instructions	Modified		
5.3	Other information	Added		
6.1	General measures	Modified		
6.2	Environmental precautions	Modified		
6.3	For containment	Modified		
6.4	Reference to other sections (8, 13)	Modified		
7.1	Precautions for safe handling	Modified		
7.1	Hygiene measures	Modified		
7.2	Special rules on packaging	Added		
7.2	Storage area	Added		
7.2	Storage conditions	Modified		
8.2	Respiratory protection	Modified		
9.1	Flash point	Modified		
9.1	Viscosity, kinematic	Modified		
9.1	Density	Added		
13.1	Waste disposal recommendations	Modified		
13.1	Ecology - waste materials	Added		
13.1	Additional information	Added		
13.1	Waste treatment methods	Added		
13.1	Sewage disposal recommendations	Added		

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# **Abbreviations and acronyms:**

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-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
EUH066	Repeated exposure may cause skin dryness or cracking.
Flam. Sol. 2	Flammable solids, Category 2
H228	Flammable solid.
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.
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.
Repr. 1B	Reproductive toxicity, Category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

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.