



INJECTOR CLEANER BARDAHL

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture
Product name : INJECTOR CLEANER BARDAHL
Product code : 3203 - 13203 (733 320R6)
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

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.bardahlfrance.com

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
Greece	Poisons Information Centre Children's Hospital "Aglaia. Kyriakou"	11527 Athens	+30 10 779 3777	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

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 Calculation method
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412 Calculation method

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
Hazardous ingredients : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways

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Precautionary statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P260 - Do not breathe vapours P262 - Do not get in eyes, on skin, or on clothing P273 - Avoid release to the environment P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P331 - Do NOT induce vomiting P405 - Store locked up P501 - Dispose of contents/container in accordance with local regulations
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking

2.3. Other hazards

No additional information available

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, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	(EC no) 918-481-9 (REACH-no) 01-2118457273-39	> 50	Asp. Tox. 1, H304
2-ethylhexyl nitrate	(CAS No) 27247-96-7 (EC no) 248-363-6 (REACH-no) 01-2119539586-27	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
1,2,4-trimethylbenzene substance with a Community workplace exposure limit	(CAS No) 95-63-6 (EC no) 202-436-9 (EC index no) 601-043-00-3 (REACH-no) 01-211947235-42	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
naphthalene substance with a Community workplace exposure limit	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	< 0.5	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Allow breathing of fresh air. 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 affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries after inhalation	: May be fatal if swallowed and enters airways.
Symptoms/injuries after skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact	: Not expected to be an irritant to eyes.
Symptoms/injuries 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	: Water spray. Sand. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Firefighting instructions : Exercise caution when fighting any chemical fire. Evacuate area. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Eliminate every possible source of ignition. Evacuate area. 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

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

6.4. Reference to other sections

Exposure controls and personal protection.

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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Hygiene measures : Remove contaminated clothes. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in original container. Store in a well-ventilated place. Store in a dry place. Store in a closed container.
- Maximum storage period : 60 months

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	VME (mg/m ³)	1200 mg/m ³
France	VME (ppm)	184 ppm
1,2,4-trimethylbenzene (95-63-6)		
EU	IOELV TWA (mg/m ³)	100 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
France	VME (mg/m ³)	100 mg/m ³
France	VME (ppm)	20 ppm
France	VLE (mg/m ³)	250 mg/m ³
France	VLE (ppm)	50 ppm
naphthalene (91-20-3)		
EU	IOELV TWA (mg/m ³)	50 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
France	VME (mg/m ³)	50 mg/m ³
France	VME (ppm)	10 ppm
2-ethylhexyl nitrate (27247-96-7)		
EU	IOELV TWA (ppm)	1 ppm

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1,3,5-trimethylbenzene (108-67-5)		
Belgium	Limit value (ppm)	20 ppm (8h)
France	VME (ppm)	20 ppm (8h)
France	VLE (ppm)	50 ppm (15m)

8.2. Exposure controls

Hand protection : For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves, Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)		3 (> 0.65)	EN 374

Eye protection : Avoid contact with eyes

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow-brown.
Odour	: Solvent.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 61 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0,79 - 0,8
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: < 20 mm ² /s
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

No additional information available

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Open flame. Sparks. Heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : 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 (mg/l)	4951 mg/m ³ 4 hours

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified (64742-94-5)	
LD50 dermal rabbit	> 2 ml/kg
LC50 inhalation rat (mg/l)	> 590 mg/m ³

2-ethylhexan-1-ol (104-76-7)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

1,2,4-trimethylbenzene (95-63-6)	
LC50 inhalation rat (mg/l)	18000 mg/m ³

naphthalene (91-20-3)	
LD50 oral	490 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	> 2500 mg/kg
LC50 inhalation rat (mg/l)	> 340 mg/m ³

Solvent naphtha (petroleum), light arom. (<0.1% w/w n°200-753-7) (64742-95-6)	
LD50 oral rat	> 2500

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
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : May be fatal if swallowed and enters airways.

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Viscosity, kinematic	< 20 mm ² /s

SECTION 12: Ecological information

12.1. Toxicity

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

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified (64742-94-5)	
LC50 fish 1	2 - 5 mg/l
EC50 Daphnia 1	3 - 10 mg/l
EC50 72h algae (1)	< 10 mg/l

2-ethylhexan-1-ol (104-76-7)	
LC50 fish 1	28,2 mg/l (Pimephales promelas, 4DY)
LC50 fish 2	17,1 mg/l (Ide mélanote (Leuciscus idus), 4DY)
EC50 other aquatic organisms 1	39 mg/l (Cladocère, 2DY)

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2-ethylhexan-1-ol (104-76-7)	
EC50 72h algae (1)	16,6 mg/l
NOEC chronic fish	14 mg/l (Ide mélanote (Leuciscus idus), 4DY)
1,2,4-trimethylbenzene (95-63-6)	
LC50 fish 1	7,72 mg/l 4 days
EC50 other aquatic organisms 1	3,6 mg/l
naphthalene (91-20-3)	
LC50 fish 2	>= 2350 µg/l 48 hours
EC50 Daphnia 1	1,96 mg/l 48 hours
2-ethylhexyl nitrate (27247-96-7)	
LC50 fish 1	28,2 mg/l (Pimephales promelas, 4DY)
LC50 fish 2	17,1 mg/l (Ide mélanote (Leuciscus idus),4DY)
EC50 other aquatic organisms 1	> 12,6 mg/l (Cladocère, 2DY)
Solvent naphtha (petroleum), light arom. (<0.1% w/w n°200-753-7) (64742-95-6)	
LC50 fish 1	0,51 mg/l
EC50 Daphnia 1	3,4 mg/l

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

2-ethylhexan-1-ol (104-76-7)	
Log Kow	2,9
1,2,4-trimethylbenzene (95-63-6)	
Log Kow	3,63
2-ethylhexyl nitrate (27247-96-7)	
Log Kow	5,24

12.4. Mobility in soil

2-ethylhexan-1-ol (104-76-7)	
Mobility in soil	-1,42
2-ethylhexyl nitrate (27247-96-7)	
Mobility in soil	(terre-3,75)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not discharge into drains or the environment.
Waste disposal recommendations : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Not applicable	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

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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 substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation : 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
RG 4 BIS - Affections gastro-intestinales provoquées par le benzène, le toluène, les xylènes et tous les produits en renfermant

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (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

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

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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 2	Flammable solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H228	Flammable solid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful 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