

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 12/12/2014 Revision date: 1/20/2023 Supersedes version of: 3/27/2020 Version: 2.0

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

1.1. Product identifier

Product form	: Mixture
Name	: Common Rail Diesel Injector Cleaner
UFI	: VFN1-UH1G-ED93-GQFJ
Product code	: 1155B
Type of product	: Detergent
Article number	: 1155B

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 useProfessional use.Fuel additives

Function or use category 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 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	
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)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

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SECTION 2: Hazards identificatio	n
2.1. Classification of the substance of	r mixture
Classification according to Regulation (EC	C) No. 1272/2008 [CLP]
Aspiration hazard, Category 1 Full text of H- and EUH-statements: see sect	H304 ion 16
Adverse physicochemical, human health	and environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No	o. 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 and container to to a hazardous or special waste collection point.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.
2.3 Othor bazarde	

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

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
2 Ethyl hexyl nitrate	CAS-No.: 27247-96-7 EC-No.: 248-363-6 REACH-no: 01-2119539586- 27	1 – 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Aquatic Chronic 2, H411
Ethylhexylique (2-) Alcool	CAS-No.: 104-76-7 EC-No.: 203-234-3 REACH-no: 01-2119487289- 20	< 0.1	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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 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	: Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower.
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 effec	ts, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after ingestion	Repeated exposure may cause skin dryness or cracking.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 Unsuitable extinguishing media	Carbon dioxide. Water spray. Sand. Dry powder.Do not use a heavy water stream.
5.2. Special hazards arising from the subs	tance 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 Protection during firefighting Other information	 Exercise caution when fighting any chemical fire. Do not enter fire area without proper protective equipment, including respiratory protection. Prevent liquid from entering sewers, watercourses, underground or low areas.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipme	ent and emergency procedures		
General measures :	Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas.		
6.1.1. For non-emergency personnel			
Emergency procedures :	Keep public away from danger area.		
6.1.2. For emergency responders			
Protective equipment :	Equip cleanup crew with proper protection.		
6.2. Environmental precautions			

Dam up the liquid spill. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up	Recover the product with absorbent material.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".

7.1. Precautions for safe handling : Do not eat, drink or smoke when using this product. Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mi soap and water before eating, drinking or smoking and when leaving work. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Provide local exhaust or general room ventilation. Storage conditions : Store in a dry place. Store in a closed container. Store in a well-ventilated place. Incompatible materials : Freezing. heat. Sources of ignition. Special rules on packaging : Keep only in original container.	SECTION 7: Handling and storag	je
Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with missoap and water before eating, drinking or smoking and when leaving work. 7.2. Conditions for safe storage, including any incompatibilities Technical measures : Provide local exhaust or general room ventilation. Storage conditions : Store in a dry place. Store in a closed container. Store in a well-ventilated place. Incompatible materials : Freezing. heat. Sources of ignition.	7.1. Precautions for safe handling	
Technical measures: Provide local exhaust or general room ventilation.Storage conditions: Store in a dry place. Store in a closed container. Store in a well-ventilated place.Incompatible materials: Freezing. heat. Sources of ignition.	0	Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild
Storage conditions : Store in a dry place. Store in a closed container. Store in a well-ventilated place. Incompatible materials : Freezing. heat. Sources of ignition.	7.2. Conditions for safe storage, incl	luding any incompatibilities
	Storage conditions Incompatible materials	 Store in a dry place. Store in a closed container. Store in a well-ventilated place. Freezing. heat. Sources of ignition.

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics <2% aromatics			
France - Occupational Exposure Limits			
VME (OEL TWA)	1200 mg/m ³		
VME (OEL TWA) [ppm]	184 ppm		
Netherlands - Occupational Exposure Limits			
TGG-8u (OEL TWA)	5		
TGG-15min (OEL STEL) 10 mg/m ³			
2 Ethyl hexyl nitrate (27247-96-7)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA [ppm]	1 ppm		
IOEL STEL [ppm]	1 ppm		
Ethylhexylique (2-) Alcool (104-76-7)			
France - Occupational Exposure Limits			
VME (OEL TWA) [ppm]	50 ppm		
VLE (OEL C/STEL) [ppm]	100 ppm		

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

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

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			
Туре	Field of application	Characteristics	Standard
Safety glasses			EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Safety gloves					EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Ensure good ventilation of the work station

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
Appearance	: clear.
Colour	: Yellow.
Odour	: No data available
Odour threshold	: No data available
рН	: 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	: > 61.5 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

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Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 0.787 – 0.802 g/cm³ 20°C
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 20.5 mm²/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
Stable under normal conditions.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No additional information available
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 toxicological effects	11.1 Information on toxicological effects			
Acute toxicity (dermal)	Not classified Not classified Not classified			
LD50 oral rat	5000 mg/kg			
LD50 dermal rat	> 5000 mg/kg			
LC50 Inhalation - Rat	> 4900 mg/m³			
2 Ethyl hexyl nitrate (27247-96-7)				
LD50 oral rat	> 9860			
LD50 dermal rabbit	> 4820			
Ethylhexylique (2-) Alcool (104-76-7)	Ethylhexylique (2-) Alcool (104-76-7)			
LD50 oral rat	3290 mg/kg			

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Ethylhexylique (2-) Alcool (104-76-7)	
LD50 dermal rabbit	> 3000 mg/kg
LC50 Inhalation - Rat	0.89 – 5.3 mg/l/4h
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
Ethylhexylique (2-) Alcool (104-76-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	Not classified
Aspiration hazard :	May be fatal if swallowed and enters airways.
Common Rail Diesel Injector Cleaner	
Viscosity, kinematic	< 20.5 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

6, 6	Harmful to aquatic life with long lasting effects. Not classified		
	Not classified		
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		

12.2. Persistence and degradability

Common Rail Diesel Injector Cleaner			
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics <2% aromatics			
Biodegradation	80 % (28 days)		
12.3. Bioaccumulative potential			
No additional information available			

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	s
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of this material and its container at hazardous or special waste collection point.
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	Avoid release to the environment.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number	'	· ·		
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
14.3. Transport hazard o	class(es)	· ·	· · ·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
I4.4. Packing group		·	·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	zards	·	·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

Emergency action in case of accident:

: The driver shall not attempt to deal with any fire of the load, NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY, Keep public away from danger area, Stop the engine, No open flames. No smoking, Mark roads and warns other road users.

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

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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

Other information, restriction and prohibition : Detergent Regulation. aliphatic hydrocarbons ≥ 30%. aromatic hydrocarbons <5%. regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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)

Ingredient data sheet			
Component	CAS-No.	%	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics <2% aromatics ≥10%			
2 Ethyl hexyl nitrate	27247-96-7	1 - 10%	
Ethylhexylique (2-) Alcool	104-76-7	<0.1%	

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)

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15.1.2. National regulations

France

Occupational diseases			
Code Description	Description		
RG 49 Skin disord	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines		
RG 65 Eczematifo	rm lesions of allergic mechanism		
hydrocarbo alcohols; g dimethylfo	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide		
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).		
Hazardous Incident Ordinance (12. BIm	SchV) : Listed in the 12. BlmSchV (Annex I) under: - Quantity threshold for operational area under § 1 para. 1		
Netherlands			
ABM category	: A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment		
SZW-lijst van kankerverwekkende stoffe	en : None of the components are listed		
SZW-lijst van mutagene stoffen	: None of the components are listed		
SZW-lijst van reprotoxische stoffen – Bo			
SZW-lijst van reprotoxische stoffen –	: None of the components are listed		
√ruchtbaarheid SZW-lijst van reprotoxische stoffen – O	ntwikkeling : None of the components are listed		
Denmark			
Classification remarks Danish National Regulations	 Emergency management guidelines for the storage of flammable liquids must be followed 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 		
Switzerland			
Storage class (LK)	: LK 6.1 - Toxic materials		
15.2. Chemical safety assessme	nt		

No additional information available

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
8.2	Personal protective equipment	Modified	
9.1	Viscosity, kinematic	Modified	

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Indication of changes			
Section	Changed item	Change	Comments
9.1	Density	Modified	
9.1	Flash point	Modified	
12.1	Ecology - general	Added	
15.1	Employment restrictions	Added	
15.1	Water hazard class (WGK)	Added	

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 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH066	Repeated exposure may cause skin dryness or cracking.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
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.	
H411	Toxic to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

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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.