

Safety Data Sheet According to Regulation (EU) No. 830/2015

Revision date:

24/07/2017 12/06/2015

Version: 4.0

Supersedes:

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

1.1. Product identifier	
Product form	: Mixture
Trade name	: Eni Brake Fluid DOT 5.1
Product code	: 7445
Type of product	: Lubricants
Formula	: 2407-2017
Product group	: Trade product
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Industrial use, Professional use, Consumer use

Hulli use category	
Industrial/Professional use spec	: Used in closed systems Wide dispersive use
Use of the substance/mixture	: Brake fluid Hydraulic fluid Do not use the product for any purposes that have not been advised by the manufacturer.
Function or use category	: Hydraulic fluids and additives

1.2.2. Uses advised against

No additional information available

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1.3. Details of the supplier of the safety data sheet
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Competent person responsible for the Safety Data Sheet (Reg. EC nr. 1907/2006): SDSInfo@eni.com

1.4. Emergency telephone number	
Emergency number	: CNIT +39 0382 24444 (24h) (IT + EN)
	Poison centre (UK): National Poisons Information Service Edinburgh (24h) (+44) 844 892 0111 0870 600 6266 (UK only) (Source: UN-WHO)

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May produce an allergic reaction. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2. Label elements

Labelling according to Regulation	(EC) No. 1272/2008 [CLP]
CLP Signal word	: [None]
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP)	 P101 - If medical advice is needed, have product container or label at hand P102 - Keep out of reach of children P273 - Avoid release to the environment P501 - Dispose of contents/container to according to national or local regulations
EUH-statements	EUH208 - Contains Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2- ethylhexyl)-6-methyl- and 2H-Benzotriazole-2-methanamine, N,N-bis(2- ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1- methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4- methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine. May produce an allergic reaction
Child-resistant fastening	: No
Tactile warning	: No

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Other:
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General advice

: (Not applicable - Classified as dangerous according to (EC) No 1272/2008)

2.3. Other hazards (not relevant f	or classification)
Physical/chemical	: Product with a very low risk of fire. It can create flammable mixtures or burn only when the water content has evaporated.
Health	: Any substance, in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment.,Do not wait for symptoms to develop.
Environment	: None
Contaminants	: None
(air contaminants or other substances)	

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Composition/information on ingredients : Synthetic base oil Additives Hazardous ingredients and/or with : See table relevant occupational exposure limits

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
2,2' -oxybisethanol	(CAS No) 111-46-6 (EC No) 203-872-2 (EC Index No) 603-140-00-6 (REACH-no) 01-2119457857-21	1 - 5	Acute Tox. 4 (Oral), H302
Dicyclohexylamine	(CAS No) 101-83-7 (EC No) 202-980-7 (EC Index No) 612-066-00-3 (REACH-no) 01-2119493354-33	0,25 - 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H- Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)- 5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H- benzotriazole-1-methylamine and 2H-Benzotriazole-2- methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1- methylamine	(EC No) 939-700-4 (EC Index No) N/A (REACH-no) 01-2119982395-25	0,1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measure	S	
4.1. Description of first aid measu	Ires	
First-aid measures after inhalation	: Remove to fresh air, keep the casualty warm and at rest. If symptoms persist call a doctor.	
First-aid measures after skin contact	: Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice.	
First-aid measures after eye contact	: Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. Remove contact lenses, if present and easy to do so. If irritation persists, seek medical advice.	
First-aid measures after ingestion	: If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink.	
4.2. Most important symptoms an	d effects, both acute and delayed	
Symptoms/injuries after inhalation	: None under normal use.	
Symptoms/injuries after skin contact	 Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause an allergic skin reaction. 	
Symptoms/injuries after eye contact	: Contact with eyes may cause reddening and irritation.	
Symptoms/injuries after ingestion	: Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances. If any, nausea and diarrhoea might occur.	
Symptoms/injuries upon intravenous administration	: No information available.	
Chronic symptoms	: None to be reported, according to the present classification criteria.	
4.3. Indication of any immediate medical attention and special treatment needed		

Treat symptomatically. Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve.

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SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Carbon dioxide. Water spray. Other extinguishing gases (according to regulations).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from t	the substance or mixture
Fire hazard	: Product with a very low risk of fire. It can create flammable mixtures or burn only when the water content has evaporated.
Explosion hazard	 Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries.
Combustion products	: Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.
5.3. Advice for firefighters	
Firefighting instructions	: Stop or contain leak at the source, if safe to do so. If possible, move containers and drums away from danger area. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.
Special protective equipment for firefighters	: Personal protection equipment for firefighters (see also sect. 8). Container device with compressed air (DIN EN 137). EN 469. EN 659.
Other information	: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.
SECTION 6: Accidental release	measures
	ive equipment and emergency procedures
General measures	: Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid direct contact with released material.
6.1.1. For non-emergency personne	I construction of the second
Protective equipment	: See Section 8.
Emergency procedures	: Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.
6.1.2. For emergency responders	
Protective equipment	: Small spillages: normal antistatic working clothes are usually adequate. Large
	spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves (preferably gauntlets) providing adequate chemical resistance. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Work helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: a half or full-face respirator with filter(s) for organic vapours (AX), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

6.2. Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations.

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6.3. Methods and material for containment and cleaning up		
For containment	: Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid in suitable containers. Clean contaminated area. Dispose of according to local regulations. Large spillages may be cautiously covered with foam, if available, to limit fire risk. When inside buildings or confined spaces, ensure adequate ventilation. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations.	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and according to local legislation.	
Other information	: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/water temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken.	

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage			
7.1. Precautions for safe handlin	g		
Precautions for safe handling	: Use adequate personal protective equipment as needed. Use and store only in a dry and well-ventilated area. Keep containers tightly closed and properly labelled. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
Hygiene measures	: Avoid contact with skin and eyes. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Keep away from food and beverages.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	Store in dry, well ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.		
Incompatible products	: Keep away from: strong oxidants.		
Storage area	: Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.		
Packages and containers:	: If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.		
Packaging materials	: For containers, or container linings use materials specifically approved for use with this product. Compatibility should be checked with the manufacturer. Keep only in the original container.		

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,2' -oxybisethanol (111-46-6)		
Austria	MAK (mg/m ³)	44 mg/m ³
Austria	MAK (ppm)	10 ppm
Austria	MAK Short time value (mg/m ³)	176 mg/m ³
Austria	MAK Short time value (ppm)	40 ppm
Denmark	Grænseværdi (langvarig) (mg/m ³)	22 mg/m ³
Denmark	Grænseværdi (langvarig) (ppm)	5 ppm
Denmark	Grænseværdi (kortvarig) (mg/m ³)	11 mg/m ³
Denmark	Grænseværdi (kortvarig) (ppm)	2,5 ppm

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Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	10 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	44 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	40 mg/m ³
Germany	TRGS 900 Limitation of exposure peaks (ppm)	176 ppm
Ireland	OEL (8 hours ref) (mg/m ³)	100 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	23 ppm
Latvia	OEL TWA (mg/m ³)	10 mg/m ³
Sweden	Nivågränsvärde (NVG) (mg/m3)	45 mg/m ³
Sweden	Nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	Kortidsvärde (KTV) (mg/m3)	90 mg/m ³
Sweden	Kortidsvärde (KTV) (ppm)	20 ppm
United Kingdom	WEL TWA (mg/m ³)	101 mg/m ³
United Kingdom	WEL TWA (ppm)	23 ppm
Switzerland	VME (mg/m ³)	44 mg/m ³
Switzerland	VME (ppm)	10 ppm
Switzerland	VLE (mg/m ³)	176 mg/m ³
Switzerland	VLE (ppm)	40 ppm
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DNEL/DMEL (additional information)		
	-	

Additional information	Not applicable		
PNEC (additional information)			
Additional information	Not applicable		
Monitoring methods	: Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts.,Refer to relevant legislation and in any case to the good practice of industrial hygiene.		
Note	: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short- term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.		

8.2. **Exposure controls**

Appropriate engineering controls

- : Ensure good ventilation of the work station.
- Personal protective equipment (for industrial or professional use)
- : Gloves. Protective clothing. Safety glasses. Safety shoes or boots.



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Hand protection	: Protective gloves. Adequate materials: nitrile (NBR), with a protection index \geq 5 (permeation time \geq 240 mins). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard.
Eye protection	: Chemical goggles or safety glasses. DIN EN 166
Skin and body protection	: Long-sleeved overalls. If necessary, refer to the EN 340 and related standards, for definition of characteristics and performance according to the risk rating of the area.
Respiratory protection	: Not necessary with sufficient ventilation. Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity. In case of inadequate ventilation wear respiratory protection (EN 136/140/145). Combination filter device (DIN EN 141). High gas/vapour concentration: gas mask with filter type A
Thermal hazard protection	: None in normal use conditions.
Environmental exposure controls	Do not discharge the product into the environment. Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.
Consumer exposure controls	: No special requirements necessary, if handled at room temperature.
8.3. Hygiene measures	
General protective and hygienic measures	: Avoid contact with skin and eyes, Do not breathe vapours or mists., Do not clean hands with dirty or oil-soaked rags., Do not keep dirty rags in the overall pockets. Do not drink eat or smoke with dirty hands. Wash hands with water and

nands with dirty or oil-soaked rags., Do not keep dirty rags in the overall pockets., Do not drink, eat or smoke with dirty hands., Wash hands with water and mild soap, do not use solvents or other irritant products which have a defatting effect on the skin., Do not re-use clothes, if they are still contaminated.

SECTION 9: Physical and ch	nemical properties	
9.1. Information on basic phys	sical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid, bright & clear.	
Molecular mass	: Not applicable for mixtures	
Colour	: Amber.	
Odour	: characteristic.	
Odour threshold	: There are no data available on the preparation/mixture itself.	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: Negligible.	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: > 260 °C	
Flash point	: > 110 °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	: No data available	
Density	: 1,06 g/cm ³ (20 °C) (ASTM D 4052)	
Solubility	: No data available	
Log Pow	: Not applicable for mixtures	
Viscosity, kinematic	: 17 mm²/s (20 °C)	
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Viscosity, dynamic	: No data available	
Explosive properties	: None.	
Oxidising properties	: None.	
Explosive limits	: No data available	
9.2. Other information		
Additional information	: No data available	

The above data (9.1 - 9.2) are typical values and do not constitute a specification.

SECTION	y and reactivity

10.1. Reactivity

This mixture does not offer any further hazard for reactivity, except what is reported in the following paragraphs.

10.2. Chemical stability

Stable product, according to its intrinsic properties (in normal conditions of storage and handling).

10.3. Possibility of hazardous reactions

None (in normal conditions of storage and handling).

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

Strong oxidants and strong acids. Strong bases/alkalis.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce : Toxic fumes.

SECTION 11: Toxicological infor	SECTION 11: Toxicological information		
11.1. Information on toxicological effects			
Acute toxicity	 Not classified (Based on available data, the classification criteria are not met) (according to composition) The ethylene glycol present in this formulation may cause intoxication, central nervous system depression (incoordination, dizziness), respiratory failure,liver and kidney damage. The effects may be delayed. The toxic (fatal) dose for pure ethylene glycol has been estimated 1.4 ml/kg wt (about 100 ml for an adult person). 		
ATE (oral)	16175,000 mg/kg bodyweight		
ATE (dermal)	20202,000 mg/kg bodyweight		
2,2' -oxybisethanol (111-46-6)			
LD50 oral rat	12565 mg/kg bodyweight		
LD50 dermal rabbit	11890 mg/kg bodyweight		
Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2- methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1- methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)- 5-methyl-1H-benzotriazole-1-methylamine			
LD50 oral rat	3313 mg/kg bodyweight		
LD50 dermal rat	2000 mg/kg bodyweight		
	 Not classified (Based on available data, the classification criteria are not met) (according to composition) Not classified (Based on available data, the classification criteria are not met) (according to composition) 		

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Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
	Contains a sensitizer (Reaction mass of 1H-Benzotriazole-1-methanamine, N,N- bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2-methanamine, N,N-bis(2- ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1- methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4- methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine). Amount contained in the product: 0,1 ÷ 0,99 % m/m max. May cause an allergic skin reaction
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Eni Brake Fluid DOT 5.1	
Viscosity, kinematic	17 mm²/s (20 °C)
Potential adverse human health effects and symptoms Other information	 Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause sensitization by skin contact. Slightly irritant to eyes. None.
SECTION 12: Ecological inform	hation
12.1. Toxicity	
Ecology - general	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. An uncontrolled release to the environment may produce a contamination of different environmental compartments (air, soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.
Ecology - water	: This product is soluble in water.
2,2' -oxybisethanol (111-46-6)	
LC50 fish 1	> 1000 mg/l
EC50 Daphnia 1	> 10000 mg/l (24h)
Dicyclohexylamine (101-83-7)	

Dicyclohexylamine (101-83-7) LC50 fish 1 0,5 (0,1 - 1) mg/l Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine

LC50 fish 1	1,3 mg/l (OECD 203; 96 h; Brachydanio rerio)
EC50 Daphnia 1	1,4 mg/l (OECD 202; 48h)
EC50 other aquatic organisms 2	69 mg/l (OECD 209; IC50 3h; bacteria)

12.2. Persistence and degradability

Eni Brake Fluid DOT 5.1

Persistence and degradability	The most significant constituents of the product should be considered as "readily biodegradable".
methanamine, N,N-bis(2-ethylhexyl)-!	methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2- 5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1- methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)- mine

Persistence and degradability Not biodegradable.

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12.3. Bioaccumulative potential	
Eni Brake Fluid DOT 5.1	
Log Pow	Not applicable for mixtures
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
Eni Brake Fluid DOT 5.1	
Ecology - soil	No data available.
12.5. Results of PBT and vPvB assess	sment
Eni Brake Fluid DOT 5.1	
This substance/mixture does not meet the	PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the	vPvB criteria of REACH regulation, annex XIII
Results of PBT-vPvB assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered as "Not persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
12.6. Other adverse effects	
Other adverse effects	: None.
Additional information	: No other effects known
SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Waste treatment methods	: Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector.
Waste disposal recommendations	: European Waste Catalogue code(s) (Decision 2001/118/CE): 16 01 13* (brake fluids). This EWC code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC code, considering the actual use of the product, alterations and contaminations.
Additional information	: Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.
Ecology - waste materials	: The product as it is does not contain halogenated substances.
EURAL code (EWC)	: 16 01 13* - brake fluids

SECTION 14: Transport information

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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not regulated for transpo	ort			
14.2. UN proper ship	pping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport haza	ard 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
14.5. Environmental hazards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : No	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : No			
		Other information : None.		

14.6. Special precautions for user

Special transport precautions

: None.

Safety Data Sheet According to Regulation (EU) No. 830/2015 Product code:

7445

Revision date: 24/07/2017

Version: 4.0

- Overland transport Transport regulations (ADR)	: Not subject
- Transport by sea	
Transport regulations (IMDG)	: Not subject
Limited quantities (IMDG)	: Not applicable
- Air transport	
Transport regulations (IATA)	: Not subject
- Inland waterway transport	
Transport regulations (ADN)	: Not subject
- Rail transport	
Transport regulations (RID)	: Not subject

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

IBC code

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	2,2' -oxybisethanol - Reaction mass of 1H- Benzotriazole-1-methanamine, N,N-bis(2- ethylhexyl)-6-methyl- and 2H- Benzotriazole-2-methanamine, N,N-bis(2- ethylhexyl)-5-methyl- and N,N-bis(2- ethylhexyl)-4-methyl-1H-benzotriazole-1- methylamine and 2H-Benzotriazole-2- methanamine, N,N-bis(2-ethylhexyl)-4- methyl- and N,N-bis(2-ethylhexyl)-5- methyl-1H-benzotriazole-1-methylamine
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	2,2' -oxybisethanol - Dicyclohexylamine - Reaction mass of 1H-Benzotriazole-1- methanamine, N,N-bis(2-ethylhexyl)-6- methyl- and 2H-Benzotriazole-2- methanamine, N,N-bis(2-ethylhexyl)-5- methyl- and N,N-bis(2-ethylhexyl)-4- methyl-1H-benzotriazole-1-methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N- bis(2-ethylhexyl)-5-methyl-1H- benzotriazole-1-methylamine
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Eni Brake Fluid DOT 5.1 - Dicyclohexylamine - Reaction mass of 1H- Benzotriazole-1-methanamine, N,N-bis(2- ethylhexyl)-6-methyl- and 2H- Benzotriazole-2-methanamine, N,N-bis(2- ethylhexyl)-5-methyl- and N,N-bis(2- ethylhexyl)-4-methyl-1H-benzotriazole-1- methylamine and 2H-Benzotriazole-2- methanamine, N,N-bis(2-ethylhexyl)-4- methyl- and N,N-bis(2-ethylhexyl)-5- methyl-1H-benzotriazole-1-methylamine

No ingredients are included in the REACH Candidate list (> 0,1 % m/m). Contains no REACH Annex XIV substances

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Product code:

7445

Revision date: 24/07/2017

Version: 4.0

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/654/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace) Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work). Directive 92/25/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth of are breastfeeding) Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances) Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds) 15.1.2. National regulations National adoption of EU Directives concerning health and safety on the workplace. National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE Relevant national laws on provention of water pollution. Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC). National adoption of Directives 75/439/CEE - 87/101/CEE concerning disposal of used oils. Germany <th></th> <th>Version: 4.0</th>		Version: 4.0
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	Denmark	
	Recommendations Danish Regulation	
15.2. Chemical safety assessment	15.2. Chemical safety assessment	

For this mixture a chemical safety assessment has been not carried out

A chemical safety assessment has been carried out for the following components of this mixture:

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Product code:

7445

Revision date: 24/07/2017

Version: 4.0

Dicyclohexylamine

Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine

SECTION 16: Other information

Indication of changes:

Formula. Modification according to Regulation (EC) 830/2015.

Abbreviations a	nd acronyms:				
	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.				
	N/A = not applicable				
	N/D = not available				
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways				
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road				
ATE	Acute Toxicity Estimate				
BCF	Bioconcentration factor				
CLP calculator	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008				
DMEL	Derived Minimal Effect level				
DNEL	Derived-No Effect Level				
EC50	Effective concentration for 50 percent of test population (median effective concentration)				
IARC	International Agency for Research on Cancer				
IATA	International Air Transport Association				
IMDG	International Maritime Dangerous Goods				
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)				
LD50	Lethal dose for 50 percent of test population (median lethal dose)				
LOAEL	Lowest Observed Adverse Effect Level				
NOAEC	No-Observed Adverse Effect Concentration				
NOAEL	No-Observed Adverse Effect Level				
NOEC	No-Observed Effect Concentration				
OECD	Organisation for Economic Co-operation and Development				
PBT	Persistent Bioaccumulative Toxic				
PNEC	Predicted No-Effect Concentration				
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006				
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways				
SDS	Safety Data Sheet				
STP	Sewage treatment plant				
vPvB	Very Persistent and Very Bioaccumulative				
ata sources	: This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.				
raining advice	: Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.				
)ther information	. Do not use the product for any purposes that have not been advised by the				

Other information

: Do not use the product for any purposes that have not been advised by the manufacturer.

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
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		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Skin Corr. 1B	Skin corrosion/irritation, Category 1B		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Sensitisation — Skin, Category 1		
H301	Toxic if swallowed		

Safety Data Sheet According to Regulation (EU) No. 830/2015

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Product code:

7445

Revision date: 24/07/2017

Version: 4.0

H302	Harmful if swa	Harmful if swallowed			
H311	Toxic in contac	Toxic in contact with skin			
H314	Causes severe	Causes severe skin burns and eye damage			
H315	Causes skin ir	Causes skin irritation			
H317	May cause an allergic skin reaction				
H400	Very toxic to a	Very toxic to aquatic life			
H410	Very toxic to a	Very toxic to aquatic life with long lasting effects			
H411	Toxic to aquat	Toxic to aquatic life with long lasting effects			
H412	Harmful to aqu	Harmful to aquatic life with long lasting effects			
EUH208	Contains . May produce an allergic reaction				
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:					
Aquatic Chronic 3	H412	Calculation method			

SDS EU (REACH Annex II) eni 2015

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