Safety Data Sheet according to Regulation (EC) No. 453/2010 Date of issue: 04/11/2003 Revision date: 07/08/2015

Supersedes: 19/06/2015

Version: 6.0

	Product identifier	
Product	form	: Mixture
Product	name.	: WOLF BRAKE FLUID DOT 5.1
Product	code	: 5075
Product	group	: Blend
1.2.	Relevant identified uses of the su	bstance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Main us	e category	: Professional use
ndustria	al/Professional use spec.	: Used in closed systems Non-dispersive use
Functior	n or use category	: brake fluids
1.2.2.	Uses advised against	
No addi	tional information available	
1.3.	Details of the supplier of the safet	y data sheet
George: 2620 He T 0032	OIL CORPORATION N.V. s Gilliotstraat, 52 emiksem - België (0)3 870 00 00 / 0476/23 33 14 olfoil.com	
1.4.	Emergency telephone number	
Emerge	ency number	: 0032 (0)70 245 245
SECT	ION 2: Hazards identification	
2.1.	Classification of the substance or	
	ication according to Regulation (EC)) No. 1272/2008 [CLP]
Eye Irrit Full text Classifi	a of H-phrases: see section 16 ication according to Directive 67/548	
Eye Irrit Full text Classifi Not clas Adverse	a of H-phrases: see section 16 ication according to Directive 67/548	3/EEC or 1999/45/EC
Eye Irrit Full text Classifi Not clas Advers No addi	: 2 H319 t of H-phrases: see section 16 ication according to Directive 67/548 ssified e physicochemical, human health an	3/EEC or 1999/45/EC
Eye Irrit Full text Classifi Not clas Advers No addi 2.2.	a 2 H319 t of H-phrases: see section 16 ication according to Directive 67/548 ssified e physicochemical, human health an itional information available Label elements	3/EEC or 1999/45/EC nd environmental effects
Eye Irrit Full text Classifi Not clas Advers No addi 2.2. Labellir	2 H319 t of H-phrases: see section 16 ication according to Directive 67/548 ssified e physicochemical, human health an itional information available	3/EEC or 1999/45/EC nd environmental effects
Eye Irrit Full text Classifi Not clas Advers No addi 2.2. Labellir Hazard	2 H319 t of H-phrases: see section 16 ication according to Directive 67/548 ssified e physicochemical, human health an itional information available Label elements ng according to Regulation (EC) No.	B/EEC or 1999/45/EC Ind environmental effects 1272/2008 [CLP]
Eye Irrit Full text Classifi Not clas Advers No addi 2.2. Labellir Hazard Signal v	t of H-phrases: see section 16 ication according to Directive 67/548 ssified e physicochemical, human health an itional information available Label elements ng according to Regulation (EC) No. pictograms (CLP)	B/EEC or 1999/45/EC nd environmental effects 1272/2008 [CLP] GHS07
Eye Irrit Full text Classifi Not clas Advers No addi 2.2. Labellir Hazard Signal w Hazard	x 2 H319 t of H-phrases: see section 16 ication according to Directive 67/548 ssified e physicochemical, human health an itional information available Label elements ng according to Regulation (EC) No. pictograms (CLP)	B/EEC or 1999/45/EC nd environmental effects 1272/2008 [CLP] T GHS07 : Warning

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SECTION 3: Composition/information on ingredients

Substances 3.1.

Not applicable

Name	Product identifier	%	Classification according to Directive 67/548/EEC
butoxytriethylene glycol	(CAS No) 143-22-6 (EC no) 205-592-6 (EC index no) 603-183-00-0 (REACH-no) 01-2119531322-53	10 - 30	Xi; R41
1,1'-iminodipropan-2-ol	(CAS No) 110-97-4 (EC no) 203-820-9 (EC index no) 603-083-00-7	1 - 2,99	Xi; R36
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8	1 - 2,99	Xi; R36
3,6,9,12-tetraoxahexadecan-1-ol	(CAS No) 1559-35-8 (EC no) 216-322-1	1 - 2,99	Not classified
2-(2-methoxyethoxy)ethanol	(CAS No) 111-77-3 (EC no) 203-906-6 (EC index no) 603-107-00-6	0,1 - 1	Repr.Cat.3; R63
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
butoxytriethylene glycol	(CAS No) 143-22-6 (EC no) 205-592-6 (EC index no) 603-183-00-0 (REACH-no) 01-2119531322-53	10 - 30	Eye Dam. 1, H318
1,1'-iminodipropan-2-ol	(CAS No) 110-97-4 (EC no) 203-820-9 (EC index no) 603-083-00-7	1 - 2,99	Eye Irrit. 2, H319
2-(2-butoxyethoxy)ethanol	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8	1 - 2,99	Eye Irrit. 2, H319
3,6,9,12-tetraoxahexadecan-1-ol	(CAS No) 1559-35-8 (EC no) 216-322-1	1 - 2,99	Eye Irrit. 2, H319
2-(2-methoxyethoxy)ethanol	(CAS No) 111-77-3 (EC no) 203-906-6 (EC index no) 603-107-00-6	0,1 - 1	Repr. 2, H361d

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general : Remove/Take off immediately all contaminated clothing.			
First-aid measures after inhalation	: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice.		
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.		
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Seek medical attention if ill effect or irritation develops.		
First-aid measures after ingestion	: Get immediate medical advice/attention.		
4.2. Most important symptoms and effect	s, both acute and delayed		
Symptoms/injuries after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.		
Symptoms/injuries after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.		
Symptoms/injuries after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.		
Symptoms/injuries after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.		
4.3. Indication of any immediate medical	attention and special treatment needed		
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Carbon dioxide. Powder. Strong water jet. Alcohol resistant foam.		
5.2. Special hazards arising from the sub	stance or mixture		
No additional information available			
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5.3. Advice for firefighters			
Precautionary measures fire	: Exercise caution when fighting any chemical fire.		
Firefighting instructions	: Use water spray or fog for cooling exposed containers.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release me	asures		
6.1. Personal precautions, protective e	equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear suitable protective clothing and gloves.		
6.1.2. For emergency responders			
Protective equipment	: Wear suitable protective clothing and gloves.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. No	tify authorities if product enters sewers or public waters.		
6.3. Methods and material for contain	nent and cleaning up		
For containment	: Impound and recover large spill by mixing it with inert granular solids.		
Methods for cleaning up	: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.		
Other information	: Spill area may be slippery. Use suitable disposal containers.		
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.		
Handling temperature	: <40 °C		
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.		
7.2. Conditions for safe storage, inclue	ding any incompatibilities		
Storage temperature	: < 40 °C		
Storage area	: Store in dry, cool, well-ventilated area.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/per	sonal protection		
8.1. Control parameters			
No additional information available			
8.2. Exposure controls			
Personal protective equipment	: Safety glasses. Gloves.		

Hand protection	: Wear suitable gloves resistant to chemical penetration. butyl rubber gloves.
Eye protection	: Safety glasses.
Skin and body protection	: No special clothing/skin protection equipment is recommended under normal conditions of use.
Respiratory protection	: No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

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SECTION 9: Physical and chemical properties			
9.1. Information on basic	0.1. Information on basic physical and chemical properties		
Physical state	: Liquid		
Appearance	: Liquid.		
Colour	: yellow.		
Odour	: Characteristic.		
Odour threshold	: No data available		
рН	: 7 - 11,5		

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: <-50 °C
Freezing point	: <°C
Boiling point	: >260 °C
Flash point	: > 126 °C ISO 2719
Self ignition temperature	: > 300 °C DIN 51794
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 2 mbar @20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,03 - 1,09 kg/m³ DIN 51757
Solubility	: Complete.
Log Pow	: No data available
Viscosity, kinematic	: 5 - 10 mm²/s @ 20°C ASTM D445
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
0.2 Other information	

Other information 9.2.

No additional information available

No additional information available			
SECTION 10: Stability and reactivity	I de la constante de		
10.1. Reactivity			
None under normal conditions.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
None under normal conditions.			
10.4. Conditions to avoid			
No data available.			
10.5. Incompatible materials			
Strong oxidizers. acids. Bases.			
10.6. Hazardous decomposition products	S		
None under normal conditions.			
SECTION 11: Toxicological informat	tion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
WOLF BRAKE FLUID DOT 5.1			
LD50 oral rat	5000 mg/kg		
LD50 dermal rabbit	3000 mg/kg OECD 404		
Skin corrosion/irritation	: Not classified		
	рН: 7 - 11,5		
Serious eye damage/irritation	: Causes serious eye irritation.		
	pH: 7 - 11,5		
Respiratory or skin sensitisation	: Not classified : Not classified		
Germ cell mutagenicity Carcinogenicity	: Not classified		
Carcinogenicity			
Denne ductive terrisity	. Net close ford		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	: Not classified		

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according to	Regulation (EC) No. 453/2010			
SECTION 12: Ecological information				
12.1. Toxicity				
WOLF BRAKE FLUID DOT 5.1				
LC50 fis	shes 1	> 100 mg/l (96 h, Oncorhynchus mykiss) DIN 38412 T.9		
EC50 ot	her aquatic organisms 1	> g/l		
	12.2. Persistence and degradability			
-	BRAKE FLUID DOT 5.1			
Biodegra		100 % 21d OECD 302B		
12.3.	Bioaccumulative potential			
	onal information available			
12.4.	Mobility in soil			
No additio	onal information available			
12.5.	Results of PBT and vPvB assessment			
No additio	onal information available			
12.6.	Other adverse effects			
No additio	onal information available			
SECTIO	ON 13: Disposal considerations			
13.1.	Waste treatment methods			
Additiona	linformation	Dispose in a safe manner in accordance with local/national regulations.		
SECTIC	ON 14: Transport information			
	ance with ADR / RID / ADNR / IMDG / IC	AQ / 14TA		
14.1.	UN number			
No dange	rous good in sense of transport regulatio	ns		
14.2.	UN proper shipping name			
Not applic	cable			
14.3.	Transport hazard class(es)			
Not applic	cable			
14.4.	Packing group			
Not applic	cable			
14.5.	Environmental hazards			
Other info	prmation	No supplementary information available.		
14.6.	Special precautions for user			
14.6.1.	Overland transport			
	onal information available			
14.6.2.	Transport by sea			
	onal information available			
	Air transport			
	onal information available			
14.6.4.	Inland waterway transport			
	onal information available			
14.7.		II of MARPOL 73/78 and the IBC Code		
Not applic				
SECTIO	ON 15: Regulatory information			
15.1.	Safety, health and environmental regu	llations/legislation specific for the substance or mixture		

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of R-, H- and EUH-phrases::

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Repr. 2	Reproductive toxicity Category 2
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361d	Suspected of damaging the unborn child
R36	Irritating to eyes
R41	Risk of serious damage to eyes
R63	Possible risk of harm to the unborn child
Xi	Irritant

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.