303018

## **BIRAL FIO (AEROSOL)**

**30/05/2017** Version: 9.0



# Safety Data Sheet BIRAL FIO (AEROSOL)

SECTION 1: IDENTIFICATION OF TH	E SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1. Product identifier		
Product name	: BIRAL FIO (AEROSOL)	
Vaporizer	: Aerosol	
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against	
Relevant identified uses		
Use of the substance/mixture	: Grease	
Uses advised against No additional information available		
1.3. Details of the supplier of the safety of	data sheet	
Name, address, and telephone number of the chemical manufacturer, distributor, importer, or other responsible party:	Advantage Dist. & Lubricants, LLC 3434 Marion Road SE Rochester, MN 55904 United States of America www.advantagelubes.com www.biral-usa.com	
Phone number:	+01 (800) 420-1414 +01 (507) 289-5555	
E-mail address:	info@advantagelubes.com	
Emergency phone number:	CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887	
<b>SECTION 2: HAZARDS IDENTIFICAT</b>	ION	
2.1. Classification of the substance or m	ixture	
Classification according to Regulation (EC) N	o. 1272/2008 [CLP]	
Aerosol 1	H222;H229	
Asp. Tox. 1	H304	
Full text of hazard classes and H-statements : se	e section 16	
2.2. Label elements		
Labelling according to Regulation (EC) No. 12	72/2008 [CLP]	
Hazard pictograms (CLP)		
Signal word (CLP)	GHS02 : Danger	
Hazard statements (CLP)	<ul> <li>H222 - Extremely flammable aerosol</li> <li>H229 - Pressurised container: May burst if heated</li> </ul>	
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</li> <li>P211 - Do not spray on an open flame or other ignition source</li> <li>P251 - Do not pierce or burn, even after use</li> <li>P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F</li> </ul>	

#### 2.3. Other hazards

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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. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
highly refined mineral oil with viscosity additive	(REACH-no) N/A	50 - 70	Asp. Tox. 1, H304
propane (Note U)	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	30 - 50	Flam. Gas 1, H220 Press. Gas
butane (Note C)(Note U)	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32	30 - 50	Flam. Gas 1, H220

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## Full text of H-statements: see section 16

<b>SECTION 4: FIRST AID MEASURES</b>		
4.1. Description of first aid measures		
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.		
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	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.	S
First-aid measures after ingestion	<ol> <li>Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.</li> </ol>	
4.2. Most important symptoms and effe	cts, both acute and delayed	
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.	
4.3. Indication of any immediate medica	al attention and special treatment needed	
Treat symptomatically. In all cases of doubt, or	when symptoms persist, seek medical attention.	
<b>SECTION 5: FIREFIGHTING MEASU</b>	RES	
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide.	
Unsuitable extinguishing media : Do not use a heavy water stream.		
5.2. Special hazards arising from the su	ibstance or mixture	
Fire hazard : Extremely flammable aerosol.		
Explosion hazard	: Pressurised container: May burst if heated.	
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2).	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.	1
Protection during firefighting	: Do not enter fire area without proper personal protective equipment, including respiratory protection.	
SECTION 6: ACCIDENTAL RELEAS	E MEASURES	
	quipment and emergency procedures	
General measures	: Concerning personal protective equipment to use, see section 8. No flames, no sparks. Eliminate all sources of ignition. Ensure adequate ventilation, especially in confined areas.	
For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
	Essenticon - SDS EU v4.1 EN (English)	2/8

5 5 ( )	(REACH) with its amenument Regulation (EO) 2015/650	
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For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: Ventilate area.	
6.2. Environmental precaution	S	
Prevent entry to sewers and public wa	aters. Notify authorities if liquid enters sewers or public waters.	
6.3. Methods and material for	containment and cleaning up	
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as so Collect spillage. Store away from other materials.	on as possible.
6.4. Reference to other section	ns	
For further information refer to section	13. See Heading 8. Exposure controls and personal protection.	
SECTION 7: HANDLING AND	) STORAGE	
7.1. Precautions for safe hand	ling	
Precautions for safe handling	· Avoid contact with skin and eves. Do not spray on an open flame or other	ignition source

Precautions for safe handling	Avoid contact with skin and eyes. Do not spray on an open flame or other ignition source. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container closed when not in use.

Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container closed when not in use.
Incompatible materials	: Sources of ignition. Direct sunlight.
Maximum storage period	: 1 year

Maximum storage period	•	i yeai
Storage temperature	:	< 50 °C

#### 7.3. Specific end use(s)

No additional data.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. **Control parameters**

highly refined mineral oil with viscosity additive				
United Kingdom	Local name	Oil mist		
United Kingdom	WEL TWA (mg/m³)	1 mg/m³		
butane (106-97-8)	butane (106-97-8)			
United Kingdom	Local name	Butane		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1450 mg/m <sup>3</sup>		
United Kingdom	WEL TWA (ppm)	600 ppm		
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1810 mg/m <sup>3</sup>		
United Kingdom	WEL STEL (ppm)	750 ppm		
United Kingdom	Remark (WEL)	Carc (Capable of causing cancer and/or heritable genetic damage. See paragraphs 49–51), (only applies if Butane contains more than 0.1% of buta-1,3-diene)		

### 8.2. **Exposure controls**

Appropriate engineering controls

Personal protective equipment

Hand protection

Eye protection Respiratory protection



: Ensure that there is a suitable ventilation system. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

: Gloves. Avoid all unnecessary exposure.

: Wear protective gloves. Nitrile rubber gloves. Polyvinylalcohol (PVA). Layer thickness: 0,2 -0,4 mm. Breakthrough time : 8 (> 480 minutes). EN 374

- : Use splash goggles when eye contact due to splashing is possible. EN 166
- : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. Standard EN 141. EN 140. EN 405

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Other information

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment. Do not eat, drink or smoke during use.

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SECTION 9: PHYSICAL AND CHEMIC	CAL PROPERTIES
9.1. Information on basic physical and cl	hemical properties
Physical state	: Liquid
Appearance	: aerosol.
Colour	: Water-white.
Odour	: Oily.
Odour threshold	: Not determined
рН	: Not determined
Relative evaporation rate (butylacetate=1)	: Not determined
Melting point	: Not determined
Freezing point	: Not determined
Boiling point	: Not determined
Flash point	: Not determined
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Extremely flammable aerosol, Non flammable
Vapour pressure	: Not determined
Relative vapour density at 20 °C	: Not determined
Relative density	: <1 g/cm3
Solubility	: Not determined.
Log Pow	: Not determined
Viscosity, kinematic	: < 20.5 mm²/s
Viscosity, dynamic	: Not determined
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: Extremely flammable aerosol.
Explosive limits	: Not determined

### 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 when used at recommended storage and handling conditions.

## 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Avoid heating, source of ignition and direct sunlight. Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

No information.

## 10.6. Hazardous decomposition products

Thermal decomposition may produce : fume. Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION			
11.1. Information on toxicological effects			
Acute toxicity : Not classified			
propane (74-98-6)			
LD50 oral rat 5000 mg/kg			
highly refined mineral oil with viscosity additive			
LD50 oral rat	> 2000 mg/kg		

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butane (106-97-8)		
LC50 inhalation rat (mg/l)	658 mg/l/4h LC50 inhalation rat (Vapours - mg/l/4h)	
Skin corrosion/irritation	: Not classified	
	Based on available data, the classification criteria are not met Repeated exposure may cause skin dryness or cracking	
	pH: Not determined	
Serious eye damage/irritation	: Not classified	
	Based on available data, the classification criteria are not met Liquid splashes in the eye may cause irritation.	
	pH: Not determined	
Respiratory or skin sensitisation	: Not classified	
	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Reproductive toxicity	: Not classified	
	Based on available data, the classification criteria are not met	
STOT-single exposure	: Not classified	
	Based on available data, the classification criteria are not met	
STOT-repeated exposure	: Not classified	
	Based on available data, the classification criteria are not met	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
BIRAL FIO (AEROSOL)	· · ·	
Vaporizer	Aerosol	
Viscosity, kinematic	< 20.5 mm <sup>2</sup> /s	
Potential adverse human health effects ar	d : Based on available data, the classification criteria are not met.	
· · · · · · · · · · · · · · · · · · ·		

## symptoms

## **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

propane (74-98-6)		
LC50 fish 1	16.9 g/l 96 hours	
EC50 Daphnia 1	16.3 g/l (48 hours - Daphnia magna)	
highly refined mineral oil with viscosity additive		
LC50 fish 1	> 1000 mg/l	
EC50 Daphnia 1	> 1000 mg/l	
IC50 algae	> 1000 mg/l	

#### 12.2. Persistence and degradability

BIRAL FIO (AEROSOL)		
Persistence and degradability		Not established.
12.3.	Bioaccumulative potential	

BIRAL FIO (AEROSOL)			
Log Pow	Not determined		
Bioaccumulative potential	Not established.		
propane (74-98-6)			
Bioconcentration factor (BCF REACH)	13.18		
Log Pow	2.36		
highly refined mineral oil with viscosity additive			
Log Pow	> 6		
butane (106-97-8)			
BCF fish 1	33.88		
Log Pow	2.89		
12.4. Mobility in soil			
BIRAL FIO (AEROSOL)			
Ecology - soil	insoluble in water.		

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12.5. Results of PBT and vP	vB assessment	
BIRAL FIO (AEROSOL)		
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	
<b>12.6.</b> Other adverse effects Additional information	: Avoid release to the environment	

SECTION 13: DISPOSAL CONSIDERATIONS			
13.1. Waste treatment methods			
Regional legislation (waste)	: Dispose as hazardous waste.		
Waste treatment methods	Do not discharge into drains.		
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.		
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.		
European List of Waste (LoW) code	<ul> <li>14 06 03* - other solvents and solvent mixtures</li> <li>16 05 04* - gases in pressure containers (including halons) containing dangerous substances</li> </ul>		

## SECTION 14: TRANSPORT INFORMATION

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

ADR	IMDG	ΙΑΤΑ	RID		
14.1. UN number					
1950	1950	1950	1950		
14.2. UN proper shipping na	14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS		
Transport document description					
UN 1950 AEROSOLS, 2.1, (D)					
14.3. Transport hazard class	(es)				
2.1	2.1	2.1	2.1		
	2				
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards					
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No		
No supplementary information available					

## 14.6. Special precautions for user

## - Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP02
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

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- Transport by sea	
Special provisions (IMDG)	: 63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP02
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

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## Rail transport

No data available

## 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

## **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

## National regulations

EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: OTHER INFORMATION**

### Indication of changes:

Regulatory information.

Full text of H- and EUH-statemer Aerosol 1	Aerosol, Category 1	
Signature	: A. Åsebø Murel	
Version	: 9.0	
Supersedes	: 15/12/2014	
Revision date	: 30/05/2017	
Date of issue	: 02/04/2008	
Other information	: None.	
Data sources	: EC-regulation 2015/830 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLF Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace e	
3.2	Labelling according to Removed Directive 67/548/EEC or 1999/45/EC	
2.1	Classification according Removed to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	

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Asp. Tox. 1	Aspiration hazard, Category 1	
Flam. Gas 1	Flammable gases, Category 1	
Press. Gas	Gases under pressure	
H220	Extremely flammable gas	
H222	Extremely flammable aerosol	
H229	Pressurised container: May burst if heated	
H304	May be fatal if swallowed and enters airways	

The information in this safety data sheet is based on information from the manufacturer/supplier, present european and national legislation, and presupposes that the product is used within the specified area of application.