303033

BIRAL VG HT - VISCO GREASE HIGH TEMPERATURE

30/05/2017 Version: 10.0



Safety Data Sheet BIRAL VG HT - VISCO GREASE HIGH TEMPERATURE

SECTION 1: IDENTIFICATION OF THE	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1. Product identifier	
Product name	: BIRAL VG HT - VISCO GREASE HIGH TEMPERATURE
Product code	: 06
Vaporizer	: Aerosol
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Relevant identified uses	
Use of the substance/mixture	: Anti-corrosion and lubrication.
Uses advised against No additional information available	
1.3. Details of the supplier of the safety d	ata 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) 420-141 +01 (507) 289-555
E-mail address:	info@advantagelubes.com
Emergency phone number:	CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887
SECTION 2: HAZARDS IDENTIFICATI	ON
2.1. Classification of the substance or mi	xture
Classification according to Regulation (EC) No	5. 1272/2008 [CLP]
Aerosol 1	H222;H229
Skin Irrit. 2	H315
STOT SE 3	H336
Aquatic Acute 1	H400

Aquatic Chronic 1 H410 Full text of hazard classes and H-statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

Signal word (CLP) Hazardous ingredients Hazard statements (CLP)

- GHS02 GHS07 GHS09
- : Danger
- : heptane, n-heptane
- : H222 Extremely flammable aerosol
 - H229 Pressurised container: May burst if heated
 - H315 Causes skin irritation
 - H336 May cause drowsiness or dizziness

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	H410 - Very toxic to aquatic life with long lasting effects	
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P211 - Do not spray on an open flame or other ignition source P251 - Pressurized container: Do not pierce or burn, even after use P261 - Avoid breathing mist, spray, vapours P312 - Call a POISON CENTER or doctor/physician if you feel unwell P264 - Wash hands thoroughly after handling P280 - Wear protective gloves P273 - Avoid release to the environment P391 - Collect spillage P403+P233 - Store in a well-ventilated place. Keep container tightly closed P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 P501 - Dispose of contents/container to hazardous or special waste collection poi accordance with local, regional, national and/or international regulation 	

2.3. Other hazards

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

Comment

 Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
heptane, n-heptane (Note C)	(CAS-No.) 142-82-5 (EC-No.) 205-563-8 (EC Index-No.) 601-008-00-2	30 - 60	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
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	10 - 30	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	10 - 30	Flam. Gas 1, H220
Residual oils (petroleum), solvent-dewaxed, Baseoil - unspecified, [A complex combination of hydrocarbons obtained by removal of long, branched chain hydrocarbons from a residual oil by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400 °C (752 °F).] (Note L)	(CAS-No.) 64742-62-7 (EC-No.) 265-166-0 (EC Index-No.) 649-471-00-X (REACH-no) 01-2119480472-38	10 - 30	Carc. Not classified Asp. Tox. 1, H304

Full text of H-statements: see section 16

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 you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	 Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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1.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
I.3. Indication of any immediate medical	attention and special treatment needed
Freat symptomatically. In all cases of doubt, or w	hen symptoms persist, seek medical attention.
SECTION 5: FIREFIGHTING MEASUR	RES
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide.
Jnsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the sub	ostance or mixture
Fire hazard	: Extremely flammable aerosol.
Explosion hazard	: Pressurised container: May burst if heated.
Hazardous decomposition products in case of ire	: 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.
Protection during firefighting	 Do not enter fire area without proper personal protective equipment, including respiratory protection.
SECTION 6: ACCIDENTAL RELEASE	MEASURES
6.1. Personal precautions, protective equ	
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.
For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing vapours, mist.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containme	nt and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	
For further information refer to section 13. See H	eading 8. Exposure controls and personal protection.
SECTION 7: HANDLING AND STORA	GE
7.1. Precautions for safe handling	
Precautions for safe handling	: 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. Avoid breathing mist, spray, vapours. Use only outdoors or in a well-ventilated area. 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.
Hygiene measures	: Wash hands thoroughly after handling.
7.2. Conditions for safe storage, includir	
Storage conditions	: Keep container tightly closed. Store in a well-ventilated place. Keep cool.
ncompatible materials	: Sources of ignition. Direct sunlight.
Maximum storage period	: 1 year
Storage temperature	: < 50 °C
7.3. Specific end use(s) No additional data.	
SECTION 8: EXPOSURE CONTROLS	/PERSONAL PROTECTION
8.1. Control parameters	
heptane, n-heptane (142-82-5)	
heptane, n-heptane (142-82-5)EULocal name	n-Heptane

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heptane, n-heptane (142-82-5)				
EU	IOELV TWA (mg/m ³)	2085 mg/m ³		
EU	IOELV TWA (ppm)	500 ppm		
United Kingdom	Local name	n-Heptane		
United Kingdom	WEL TWA (mg/m ³)	2085 mg/m ³		
United Kingdom	WEL TWA (ppm)	500 ppm		
butane (106-97-8)				
United Kingdom	Local name	Butane		
United Kingdom	WEL TWA (mg/m ³)	1450 mg/m ³		
United Kingdom	WEL TWA (ppm)	600 ppm		
United Kingdom	WEL STEL (mg/m ³)	1810 mg/m ³		
United Kingdom	WEL STEL (ppm)	750 ppm		
United Kingdom	Remark (WEL)	Carc (Capable of causing cancer and/or heri genetic damage. See paragraphs 49–51), (o applies if Butane contains more than 0.1% o 1,3-diene)	nly	

long, branched chain hydrocarbons from a residual oil by solvent crystallization. It consists of hydrocarbons having carbon numbers predominantly greater than C25 and boiling above approximately 400 °C (752 °F).] (64742-62-7)

United Kingdom	Local name	Oil mist
United Kingdom	WEL TWA (mg/m ³)	1 mg/m³

8.2. Exposure controls

Appropriate engineering controls	: Ensure that there is a suitable ventilation system. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure. Gloves.
Hand protection	: Wear protective gloves. Nitrile rubber gloves. Layer thickness : 0,2 - 0,4 mm. Breakthrough time : 8 (> 480 minutes). EN 374
Eye protection	: Use splash goggles when eye contact due to splashing is possible. EN 166
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: 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
(M)	

Other information

: Do not eat, drink or smoke during use. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical ar	nd chemical properties
Physical state	: Liquid
Appearance	: aerosol.
Colour	: brown.
Odour	: Hydrocarbon.
Odour threshold	: Not determined
pH	: Not determined
Relative evaporation rate (butylacetate=1)	: Not determined
Melting point	: Not determined
Freezing point	: Not determined
Boiling point	: Not determined
Flash point	: < 0 °C
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Extremely flammable aerosol
Vapour pressure	: Not determined

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Relative vapour density at 20 °C	: Not determined	
Relative density	: 0.76 g/cm3	
Solubility	: insoluble in water. soluble in most organic solvents.	
Log Pow	: Not determined	
Viscosity, kinematic	: 315 cSt 40°C	
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

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

10.5. Incompatible materials

alkalis.

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			
heptane, n-heptane (142-82-5)				
LD50 oral rat	> 17000 mg/kg			
LD50 dermal rabbit	3000 mg/kg			
LC50 inhalation rat (Vapours - mg/l/4h)	60 mg/l/4h			
butane (106-97-8)				
LC50 inhalation rat (mg/l)	658 mg/l/4h LC50 inhalation rat (Vapours - mg/l/4h)			
Skin corrosion/irritation	: Causes skin irritation.			
	pH: Not determined			
Serious eye damage/irritation	: Not classified			
	Based on available data, the classification criteria are not met			
	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	: May cause drowsiness or dizziness.			
STOT-repeated exposure	: Not classified			
	Based on available data, the classification criteria are not met			
Aspiration hazard	: Not classified			
	Based on available data, the classification criteria are not met			

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Vaporizer		Aerosol	
Viscosity, kinematic		315 mm²/s 40°C	
Potential adverse human hea	Ith effects and	: Based on available data, the classification criteria are not met.	

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

symptoms

Ecology - water : Very toxic to aquatic life with long lasting effects.			
propane (74-98-6)			
LC50 fish 1	16.9 g/l 96 hours		
EC50 Daphnia 1	16.3 g/l (48 hours - Daphnia magna)		
heptane, n-heptane (142-82-5)			
LC50 fish 1	0.1 mg/l (96 hours - Tilapia mosambica)		
LC50 other aquatic organisms 1	1.285 mg/l (96 hours - Rainbow trout)		
EC50 Daphnia 1	1.5 mg/l (48 hours - Daphnia magna)		
IC50 algae	4.338 mg/l		

12.2. Persistence and degradability

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Persistence and degradability May cause long-term adverse effects in the environment.			
heptane, n-heptane (142-82-5)			
Biodegradation	70 %		
12.3. Bioaccumulative potential			

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Log Pow	Not determined		
Bioaccumulative potential	Not established.		
propane (74-98-6)			
Bioconcentration factor (BCF REACH)	13.18		
Log Pow	2.36		
heptane, n-heptane (142-82-5)			
Bioconcentration factor (BCF REACH)	776.25		
Log Pow	4.66		
butane (106-97-8)			
BCF fish 1	33.88		
Log Pow	2.89		

12.4. Mobility in soil

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Ecology - soil	insoluble in water.	
12.5. Results of PBT and vPvB assessment		
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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

12.6. 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	 14 06 03* - other solvents and solvent mixtures 16 05 04* - gases in pressure containers (including halons) containing dangerous substances 	

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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	me		
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS
Transport document description			
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTAL LY HAZARDOUS		
14.3. Transport hazard class	e(es)		
2.1	2.1	2.1	2.1
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	<u> </u>		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment Yes
	No supplementary i	nformation available	1

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
- 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)	: 203 : 75kg



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CAO packing instructions (IATA)
CAO max net quantity (IATA)
Special provisions (IATA)
ERG code (IATA)

: 203 : 150kg : A145, A167, A802 : 10L

Rail transport

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No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

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.

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Indication of changes:

Pogulatory info -+---

Regulatory information.				
2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	Removed		
3.2	Labelling according to Directive 67/548/EEC or 1999/45/EC	Removed		
Data sources		330 /EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/E0 ous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.		
Other information	: None.	one.		
Date of issue	: 10/04/2008	/04/2008		
Revision date	: 30/05/2017			
Supersedes	: 15/12/2014			
Version	: 10.0	: 10.0		
Signature	: A. Åsebø Murel			
Full text of H- and EUH-statements	5:			
Aerosol 1	Aerosol, Catego	Aerosol, Category 1		
Aquatic Acute 1		Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to th	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Asp. Tox. 1	Aspiration hazar	Aspiration hazard, Category 1		
Carc. Not classified	Carcinogenicity	Carcinogenicity Not classified		
Flam. Gas 1	Flammable gase	Flammable gases, Category 1		
Flam. Liq. 2	Flammable liqui	Flammable liquids, Category 2		
Press. Gas	Gases under pre	Gases under pressure		
Skin Irrit. 2	Skin corrosion/ir	Skin corrosion/irritation, Category 2		
STOT SE 3	Specific target o	Specific target organ toxicity — Single exposure, Category 3, Narcosis		
H220	Extremely flamn	Extremely flammable gas		
H222	Extremely flamn	Extremely flammable aerosol		
H225	Highly flammabl	Highly flammable liquid and vapour		
H229	Pressurised con	Pressurised container: May burst if heated		
H304	May be fatal if s	May be fatal if swallowed and enters airways		
H315	Causes skin irrit	Causes skin irritation		
H336	May cause drow	May cause drowsiness or dizziness		
H400	Very toxic to aqu	uatic life		
	Essenticon -	- SDS EU v4.1 EN (English)	8/	

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H410	Very toxic to aquatic life with long lasting effects	

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.