



MANUAL GEARBOX ADDITIVE BARD AHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Reference number: 13105
Issue date: 22-03-16 Revision date: 03-11-20 Supersedes version of: 02-08-16 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : MANUAL GEARBOX ADDITIVE BARD AHL RACING
Product code : 13105 # 7151310R1
Type of product : Lubricants and additives

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

SADAPS BARD AHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI - BELGIQUE
T +32 (0).69.59.03.60 - F +32 (0).69.59.03.61
msds@bardahlfrance.com - www.bardahl.fr

Supplier

SADAPS BARD AHL Additives & Lubricants
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msds@bardahlfrance.com - www.bardahl.fr

1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------------|--|---|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital MSD Msida | +356 2545 6504 | |
| Saudi Arabia | Poison Control Center-Riyadh | General Directorate of Health Affairs Medial Province | +966 112324180 +966 112324189 | |
| United Arab Emirates | Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC) | P.O. Box 5674 Abu Dhabi | + 800-424 | |
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | +44 20 7188 7188 | |

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H319 - Causes serious eye irritation.
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.
P264 - Wash hands thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, eye protection/face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P501 - Dispose of contents/container to a hazardous or special waste collection point.

EUH-statements

: EUH208 - Contains triphenyl phosphite, Reaction product of 1.3.4-thiadiazolidine-2.5,dithione, formaldehyde and phenol, heptyl derivs, methyl methacrylate . May produce an allergic reaction.

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

2.3. Other hazards

No additional information available

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] |
|--|--|-------|---|
| | (EC-No.) Mixture | 30-50 | Asp. Tox. 1, H304 |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | (CAS-No.) 4259-15-8 (EC-No.) 224-235-5 (REACH-no) 01-2119493635-27 | 5-15 | Eye Dam. 1, H318 Aquatic Chronic 2, H411 (M=0) |

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | | | |
|---|--|-------|--|
| triphenyl phosphite | (CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7 (REACH-no) 01-2119511213-58 | < 1 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2-ethylhexan-1-ol substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (AT, BE, CH, DE, DK, ES, FI, FR, GB, IE, LV, PL, RO, SE) | (CAS-No.) 104-76-7 (EC-No.) 203-234-3 (REACH-no) 01-2119487289-20 | < 0.5 | Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| O,O,O-triphenyl phosphorothioate | (CAS-No.) 597-82-0 (EC-No.) 209-909-9 (REACH-no) 01-2119979545-21 | < 0.5 | Not classified |
| Reaction product of 1.3.4-thiadiazolidine-2.5,dithione, formaldehyde and phenol, heptyl derivs. substance listed as REACH Candidate (Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]) | (EC-No.) 939-460-0 (REACH-no) 01-2119971727-23 | < 0.5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 |
| methyl methacrylate (Note D) | (CAS-No.) 80-62-6 (EC-No.) 201-297-1 (EC Index-No.) 607-035-00-6 (REACH-no) 01-2119452498-28 | < 0.5 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1B, H317 STOT SE 3, H335 |

Specific concentration limits:

| Name | Product identifier | Specific concentration limits |
|--|--|---|
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | (CAS-No.) 4259-15-8 (EC-No.) 224-235-5 (REACH-no) 01-2119493635-27 | (1 ≤C < 10) Eye Irrit. 2, H319 (50 ≤C < 100) Eye Dam. 1, H318 |
| triphenyl phosphite | (CAS-No.) 101-02-0 (EC-No.) 202-908-4 (EC Index-No.) 015-105-00-7 (REACH-no) 01-2119511213-58 | (5 ≤C ≤ 100) Eye Irrit. 2, H319 (5 ≤C ≤ 100) Skin Irrit. 2, H315 |
| O,O,O-triphenyl phosphorothioate | (CAS-No.) 597-82-0 (EC-No.) 209-909-9 (REACH-no) 01-2119979545-21 | (100 ≤C < 100) Unst. Expl. |

Comments

: The mineral oils in the product contain <3% DMSO-extract (IP 346).

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

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 medical advice is needed, have product container or label at hand. |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| First-aid measures after skin contact | : Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse. |

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- | | |
|--------------------------------------|--|
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion | : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. |

4.2. Most important symptoms and effects, both acute and delayed

- | | |
|-------------------------------------|-------------------------------------|
| Symptoms/effects after skin contact | : May produce an allergic reaction. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- | | |
|--------------------------------|--|
| Suitable extinguishing media | : Carbon dioxide. Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

- | | |
|--|---|
| Hazardous decomposition products in case of fire | : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. |
|--|---|

5.3. Advice for firefighters

- | | |
|--------------------------------|---|
| Firefighting instructions | : Exercise caution when fighting any chemical fire. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : Prevent liquid from entering sewers, watercourses, underground or low areas. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- | | |
|------------------|--|
| General measures | : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection. |
|------------------|--|

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- | | |
|-------------------------|---|
| For containment | : Recover the product with absorbent material. |
| Methods for cleaning up | : Clean up any spills as soon as possible, using an absorbent material to collect it. |

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|--|
| Precautions for safe handling | : Do not eat, drink or smoke when using this product. |
| Hygiene measures | : Wash contaminated clothing before reuse. Always wash hands after handling the product. |

MANUAL GEARBOX ADDITIVE BARD AHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

7.2. Conditions for safe storage, including any incompatibilities

| | |
|----------------------------|--|
| Technical measures | : Provide local exhaust or general room ventilation. |
| Storage conditions | : Store in a closed container. Keep out of frost. |
| Heat and ignition sources | : Keep away from naked flames/heat. Keep away from ignition sources. |
| Storage area | : Store in a dry place. Store in a well-ventilated place. |
| Special rules on packaging | : Store in original container. |

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| MANUAL GEARBOX ADDITIVE BARD AHL RACING | |
|--|--|
| EU - Occupational Exposure Limits | |
| Local name | Mineral oils (AHRMO) |
| IOELV TWA (mg/m ³) | 5 mg/m ³ (inhalable fraction) |
| Notes | (Year of adoption 2010) |
| Regulatory reference | SCOEL Recommendations |

2-ethylhexan-1-ol (104-76-7)

| | |
|---|------------------------------------|
| EU - Occupational Exposure Limits | |
| Local name | 2-ethylhexan-1-ol |
| IOELV TWA (mg/m ³) | 5,4 mg/m ³ |
| IOELV TWA (ppm) | 1 ppm |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 |
| Austria - Occupational Exposure Limits | |
| MAK Daily average value (mg/m ³) | 5,4 mg/m ³ |
| MAK Daily average value (ppm) | 1 ppm |
| MAK Short time value [mg/m ³] | 10,8 mg/m ³ |
| MAK Short time value [ppm] | 2 ppm |
| Belgium - Occupational Exposure Limits | |
| Limit value [mg/m ³] | 5,4 mg/m ³ |
| Limit value [ppm] | 1 ppm |
| Denmark - Occupational Exposure Limits | |
| Grænseværdi (8 timer) (mg/m ³) | 5,4 mg/m ³ |
| Grænseværdi (8 timer) (ppm) | 1 ppm |
| Grænseværdi (STEL) (mg/m ³) | 10,8 mg/m ³ |
| Grænseværdi (STEL) (ppm) | 2 ppm |
| Finland - Occupational Exposure Limits | |
| HTP-arvo (8h) (mg/m ³) | 5,4 mg/m ³ |
| HTP-arvo (8h) (ppm) | 1 ppm |
| France - Occupational Exposure Limits | |
| VME [mg/m ³] | 5,4 mg/m ³ |

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| 2-ethylhexan-1-ol (104-76-7) | |
|--|------------------------|
| VME [ppm] | 1 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Occupational exposure limit value (mg/m ³) | 54 mg/m ³ |
| Occupational exposure limit value (ppm) | 10 ppm |
| Ireland - Occupational Exposure Limits | |
| OEL (8 hours ref) (mg/m ³) | 5,4 mg/m ³ |
| OEL (8 hours ref) (ppm) | 1 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 5,4 mg/m ³ |
| OEL TWA (ppm) | 1 ppm |
| Poland - Occupational Exposure Limits | |
| NDS (mg/m ³) | 5,4 mg/m ³ |
| NDSP (mg/m ³) | 10,8 mg/m ³ |
| Romania - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 5,4 mg/m ³ |
| OEL TWA (ppm) | 1 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (mg/m ³) | 5,4 mg/m ³ |
| VLA-ED (ppm) | 1 ppm |
| VLA-EC (mg/m ³) | 110 mg/m ³ |
| VLA-EC (ppm) | 20 ppm |
| Sweden - Occupational Exposure Limits | |
| nivågränsvärde (NVG) (mg/m ³) | 5,4 mg/m ³ |
| nivågränsvärde (NVG) (ppm) | 1 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (mg/m ³) | 5,4 mg/m ³ |
| Switzerland - Occupational Exposure Limits | |
| MAK (mg/m ³) | 5,4 mg/m ³ |
| MAK (ppm) | 1 ppm |
| KZGW (mg/m ³) | 10,8 mg/m ³ |
| KZGW (ppm) | 2 ppm |
| methyl methacrylate (80-62-6) | |
| EU - Occupational Exposure Limits | |
| IOELV TWA (ppm) | 50 ppm |
| IOELV STEL (ppm) | 100 ppm |
| Austria - Occupational Exposure Limits | |
| MAK Daily average value (mg/m ³) | 210 mg/m ³ |
| MAK Daily average value (ppm) | 50 ppm |
| MAK Short time value [mg/m ³] | 420 mg/m ³ |
| MAK Short time value [ppm] | 100 ppm |

MANUAL GEARBOX ADDITIVE BARD AHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| methyl methacrylate (80-62-6) | |
|--|-----------------------|
| Belgium - Occupational Exposure Limits | |
| Limit value [mg/m ³] | 208 |
| Limit value [ppm] | 50 ppm |
| Short time value [mg/m ³] | 416 mg/m ³ |
| Short time value [ppm] | 100 ppm |
| Denmark - Occupational Exposure Limits | |
| Grænseværdi (8 timer) (mg/m ³) | 102 |
| Grænseværdi (8 timer) (ppm) | 25 |
| Grænseværdi (STEL) (mg/m ³) | 204 |
| Grænseværdi (STEL) (ppm) | 50 ppm |
| Finland - Occupational Exposure Limits | |
| HTP-arvo (8h) (mg/m ³) | 42 mg/m ³ |
| HTP-arvo (8h) (ppm) | 10 ppm |
| HTP-arvo (15 min) | 210 mg/m ³ |
| HTP-arvo (15 min) (ppm) | 50 ppm |
| France - Occupational Exposure Limits | |
| VME [mg/m ³] | 205 mg/m ³ |
| VME [ppm] | 50 ppm |
| VLE [mg/m ³] | 410 mg/m ³ |
| VLE [ppm] | 100 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) | |
| Occupational exposure limit value (mg/m ³) | 210 mg/m ³ |
| Occupational exposure limit value (ppm) | 50 |
| Hungary - Occupational Exposure Limits | |
| AK-érték | 210 mg/m ³ |
| CK-érték | 210 mg/m ³ |
| Ireland - Occupational Exposure Limits | |
| OEL (8 hours ref) (ppm) | 50 |
| OEL (15 min ref) (ppm) | 100 ppm |
| Italy - Occupational Exposure Limits | |
| OEL TWA (ppm) | 50 ppm |
| OEL STEL (ppm) | 100 ppm |
| Latvia - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 10 mg/m ³ |
| Netherlands - Occupational Exposure Limits | |
| Grenswaarde TGG 8H (mg/m ³) | 205 mg/m ³ |
| Grenswaarde TGG 15MIN (mg/m ³) | 410 mg/m ³ |
| Poland - Occupational Exposure Limits | |
| NDS (mg/m ³) | 100 mg/m ³ |
| NDSCh (mg/m ³) | 300 mg/m ³ |

MANUAL GEARBOX ADDITIVE BARD AHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| methyl methacrylate (80-62-6) | |
|--|-----------------------|
| Romania - Occupational Exposure Limits | |
| OEL TWA (mg/m ³) | 205 mg/m ³ |
| OEL TWA (ppm) | 50 ppm |
| OEL STEL (mg/m ³) | 410 mg/m ³ |
| OEL STEL (ppm) | 100 ppm |
| Spain - Occupational Exposure Limits | |
| VLA-ED (mg/m ³) | 100 mg/m ³ |
| VLA-ED (ppm) | 50 ppm |
| VLA-EC (mg/m ³) | 416 mg/m ³ |
| VLA-EC (ppm) | 100 ppm |
| Sweden - Occupational Exposure Limits | |
| nivågränsvärde (NVG) (mg/m ³) | 200 mg/m ³ |
| nivågränsvärde (NVG) (ppm) | 50 ppm |
| kortidsvärde (KTV) (mg/m ³) | 400 mg/m ³ |
| kortidsvärde (KTV) (ppm) | 100 ppm |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (mg/m ³) | 208 mg/m ³ |
| WEL TWA (ppm) | 50 ppm |
| WEL STEL (mg/m ³) | 416 mg/m ³ |
| WEL STEL [ppm] | 100 ppm |
| Switzerland - Occupational Exposure Limits | |
| MAK (mg/m ³) | 210 mg/m ³ |
| MAK (ppm) | 50 ppm |
| KZGW (mg/m ³) | 420 mg/m ³ |
| KZGW (ppm) | 100 ppm |
| Turkey - Occupational Exposure Limits | |
| OEL TWA (ppm) | 50 ppm |
| OEL STEL (ppm) | 100 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH TWA (mg/m ³) | 410 mg/m ³ |
| ACGIH TWA (ppm) | 100 ppm |

8.2. Exposure controls

Hand protection:

Gloves. EN 374

Eye protection:

Safety glasses. EN 166

Skin and body protection:

Wear suitable protective clothing

MANUAL GEARBOX ADDITIVE BARD AHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Respiratory protection:

Good ventilation of the workplace required

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : clear. |
| Colour | : Yellow. |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : > 100 °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 | : 0,884 – 0,894 g/cm ³ (20°C) |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : 69,5 – 84,95 mm ² /s (40°C) |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2-ethylhexan-1-ol (104-76-7)

| | |
|-----------------------|--------------------|
| LD50 oral rat | 2047 – 3730 mg/kg |
| LD50 dermal rat | > 3000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| LC50 Inhalation - Rat | 0,89 – 5,3 mg/l/4h |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

MANUAL GEARBOX ADDITIVE BARDAHL RACING

| | |
|----------------------|--|
| Viscosity, kinematic | 69,5 – 84,95 mm ² /s (40°C) |
|----------------------|--|

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8)

| | |
|--------------------------------|-------------------------|
| LC50 fish 1 | 4,4 mg/l LC50/96h/trout |
| EC50 other aquatic organisms 1 | 75 mg/l 48 hours |
| EC50 72h algae (1) | 410 mg/l |

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| triphenyl phosphite (101-02-0) | |
|--------------------------------|--------------------|
| EC50 other aquatic organisms 1 | 0,94 mg/l 48 hours |

| 2-ethylhexan-1-ol (104-76-7) | |
|--------------------------------|--|
| LC50 fish 1 | 28,2 mg/l (Pimephales promelas, 4DY) |
| LC50 fish 2 | 17,1 mg/l (Ide mélanote (Leuciscus idus), 4DY) |
| EC50 Daphnia 1 | 1,82 mg/l (48h) |
| EC50 Daphnia 2 | 2,72 mg/l (24h) |
| EC50 other aquatic organisms 1 | 39 mg/l (Cladocère, 2DY) |
| EC50 72h algae (1) | 16,6 mg/l Scenedesmus subspicatus |
| EC50 72h algae (2) | 11,5 mg/l Desmodesmus subspicatus |
| EC50 96h algae (1) | 1,3 mg/l Skeletonema costatum |
| NOEC chronic fish | 14 mg/l (Ide mélanote (Leuciscus idus), 4DY) |

| O,O,O-triphenyl phosphorothioate (597-82-0) | |
|---|--------------------------------------|
| LC50 fish 1 | > 100 mg/l (Zebra Fish) |
| EC50 Daphnia 1 | > 100 mg/l (Daphnia Magna) |
| EC50 72h algae (1) | > 100 mg/l (Scenedesmus quadricauda) |

12.2. Persistence and degradability

| triphenyl phosphite (101-02-0) | |
|--------------------------------|-----------|
| Biodegradation | 5 – 9,9 % |

12.3. Bioaccumulative potential

| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (4259-15-8) | |
|--|-----|
| Partition coefficient n-octanol/water (Log Kow) | 3,6 |

| triphenyl phosphite (101-02-0) | |
|---|------|
| Partition coefficient n-octanol/water (Log Kow) | 6,62 |

| 2-ethylhexan-1-ol (104-76-7) | |
|---|-----|
| Partition coefficient n-octanol/water (Log Kow) | 2,9 |

12.4. Mobility in soil

| 2-ethylhexan-1-ol (104-76-7) | |
|------------------------------|-------|
| Mobility in soil | -1,42 |

12.5. Results of PBT and vPvB assessment

| Component | |
|--|---|
| Reaction product of 1.3.4-thiadiazolidine-2.5,dithione, formaldehyde and phenol, heptyl derivs. () | 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

No additional information available

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|--|
| Waste treatment methods | : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Sewage disposal recommendations | : Do not discharge into drains or the environment. |
| Product/Packaging disposal recommendations | : Collect all waste in suitable and labelled containers and dispose according to local legislation. |
| Additional information | : Empty the packaging completely prior to disposal. Do not re-use empty containers. |
| Ecology - waste materials | : Do not discharge the product into the environment. |

SECTION 14: Transport information

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

| ADR | IMDG | IATA | RID |
|---|----------------|----------------|----------------|
| 14.1. UN number | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration $\geq 0.1\%$ or with a lower specific limit: Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)] (EC 939-460-0)

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

MANUAL GEARBOX ADDITIVE BARD AHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

France

Occupational diseases : RG 4 BIS - Affections gastro-intestinales provoquées par le benzène, le toluène, les xylènes et tous les produits en renfermant
RG 36 - Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse
RG 49 - Affections cutanées provoquées par les amines aliphatiques, alicycliques ou les éthanolamines
RG 65 - Lésions eczématiformes de mécanisme allergique

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| 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 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |

MANUAL GEARBOX ADDITIVE BARDAHL RACING

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| | |
|--------|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains triphenyl phosphite, Reaction product of 1.3.4-thiadiazolidine-2.5,dithione, formaldehyde and phenol, heptyl derivs, methyl methacrylate . May produce an allergic reaction. |

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.