Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Version: 4.2

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

Product identifier

Product form : Mixture

: WOLF AROW HV ISO 68 Product name

Product code : 4407 : Blend Product group

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

1.2.1. Relevant identified uses

: Industrial use, Professional use, Consumer use Main use category

Industrial/Professional use spec : Non-dispersive use

Used in closed systems

: Lubricants and additives Function or use category

Uses advised against 1.2.2.

No additional information available

Details of the supplier of the safety data sheet

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Emergency telephone number 1.4.

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SECTION 2: Hazards identification

Classification of the substance or mixture

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

Not classified

Label elements 2.2.

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

Child-resistant fastening : No Tactile warning : No

Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------|---|-------|---|
| Zinkalkyldithiophosphate | (CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) 01-2119493635-27 | 0,297 | Eye Dam. 1, H318 Aquatic Chronic 2, H411 |

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Not expected to require first aid measures.

First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, 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 : Water fog. Foam. Powder. Dry chemical product.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

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 measures

6.1. Personal precautions, protective 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. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment 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 eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including 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

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SECTION 8: Exposure controls/personal protection

Control parameters

Additional information : 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis

according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

Exposure controls

Personal protective equipment : Safety glasses. Gloves.

: Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Hand protection

Nitrile rubber (NBR) /

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.





SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid Oily liquid. **Appearance** Colour Yellow-brown. Odour Characteristic Odour threshold No data available No data available рΗ Relative evaporation rate (butylacetate=1) No data available : No data available Melting point Freezing point : No data available : No data available Boiling point Flash point > 150 °C @ ASTM D92 Auto-ignition temperature : No data available : No data available Decomposition temperature : No data available

Flammability (solid, gas) Vapour pressure No data available : No data available Relative vapour density at 20 °C : No data available Relative density : 878 kg/m3 @15°C Density

Solubility : Slightly soluble, the product remains on the water surface.

Log Pow : No data available Viscosity, kinematic : 68 mm²/s @ 40°C : No data available Viscosity, dynamic Explosive properties No data available Oxidising properties : No data available : No data available Explosive limits

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

None under normal conditions.

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10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizers. acids. Bases.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

WOLF AROW HV ISO 68

Viscosity, kinematic 68 mm²/s @ 40°C

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

| WOLF AROW HV ISO 68 | |
|-------------------------------|--|
| Persistence and degradability | Not soluble in water, so only minimally biodegradable. |

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

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14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- 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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS,

Annex 4

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

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Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

NIET-limitatieve lijst van voor de voortplantin giftige stoffen – Ontwikkeling

giftige stoffen – Vruchtbaarheid NIET-limitatieve lijst van voor de voortplanting : Zinkalkyldithiophosphate is listed: Zinkalkyldithiophosphate is listed

: None of the components are listed

: None of the components are listed

: None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Abbreviations and acronyms:

| ACGIH: American Conference of Governmental Industrial Hygienists |
|--|
| TWA: Time Weighted Average |
| TLV: Threshold Limit Value |
| ASTM: American Society for Testing and Materials |
| ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route |
| RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail |
| ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin |
| IMDG: International Maritime Dangerous Goods |
| ICAO: International Civil Aviation Organization |
| IATA: International Air Transport Association |
| STEL: Short Term Exposure Limit |
| LD50: median Lethal Dose for 50% of subjects |
| ATE: acute toxicity estimate |
| LC50: median Lethal Concentration for 50% of subjects |
| EC50: concentration producing 50% effect |

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 H- and EUH-statements:

| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 | |
|-------------------|---|--|
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| H318 | Causes serious eye damage | |
| H411 | Toxic to aquatic life with long lasting effects | |

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

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