#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 Date of issue:8/10/2004 Revision date:19/07/2016Supersedes:10/06/2016 Version: 3.4

DN 1: Identification of the substance/mixture and of the company/undertaking         Product identifier         orm       : Mixture         ame       : WOLF AROW ISO 100         ode       : 4008		
Product identifier         orm       : Mixture         ame       : WOLF AROW ISO 100		
ame : WOLF AROW ISO 100		
ode : 4008		
roup : Blend		
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Relevant identified uses		
category : Industrial use, Professional use, Consumer use		
Professional use spec : Non-dispersive use		
Used in closed systems		
or use category : Lubricants and additives		
Uses advised against		
onal information available		
Details of the supplier of the safety data sheet		
L CORPORATION N.V. Gilliotstraat, 52		
niksem - België		
)3 870 00 00 - F 0032 (0)3 870 00 99		
foil.com		
foil.com		
Emergency telephone number		
foil.com		
Emergency telephone number         cy number         : +32 14 58 45 45 (NL/EN/FR/DE)		
Emergency telephone number		
Emergency telephone number         cy number       : +32 14 58 45 45 (NL/EN/FR/DE)         DN 2: Hazards identification         Classification of the substance or mixture		
Emergency telephone number         cy number       : +32 14 58 45 45 (NL/EN/FR/DE)         ON 2: Hazards identification		
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Emergency telephone number         cy number         cy number         : +32 14 58 45 45 (NL/EN/FR/DE)         ON 2: Hazards identification         Classification of the substance or mixture         ation according to Regulation (EC) No. 1272/2008 [CLP]		
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Emergency telephone number         cy number       : +32 14 58 45 45 (NL/EN/FR/DE)         DN 2: Hazards identification         Classification of the substance or mixture         ation according to Regulation (EC) No. 1272/2008 [CLP]         ified         Label elements		
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(CAS No) 68649-42-3 (EC no) 272-028-3 (REACH-no) 01-2119493635-27

Full text of H-statements: see section 16

Zinkalkyldithiophosphate

Eye Dam. 1, H318 Aquatic Chronic 2, H411

0,1 - 0,99

## Safety Data Sheet

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

	<b>č</b> ( )
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 eff	ects, 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 media	cal attention and special treatment needed
No additional information available	
<b>SECTION 5: Firefighting measures</b>	
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 s	
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 me	
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6.1. Personal precautions, protective	asures equipment and emergency procedures
6.1.Personal precautions, protective of6.1.1.For non-emergency personnel	equipment and emergency procedures
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19/07/2016

## Safety Data Sheet

OTIONA

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

SECTION 8: Exposure controls/personal protection		
8.1. 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).	
8.2. Exposure controls		
Personal protective equipment	: Safety glasses. Gloves.	
Hand protection	: Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. 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		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Oily liquid.	
Colour	: Yellow-brown.	
Odour	: Characteristic.	
Odour threshold	: No data available	
рН	: 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	: > 200 °C @ ASTM D92	
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	: 887 kg/m³ @15°C	
Solubility	: Slightly soluble, the product remains on the water surface.	
Log Pow	: No data available	
Viscosity, kinematic	: 100 mm²/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

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
None un	der normal conditions.
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
None un	der normal conditions.

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No data available. 10.5. Incompatible mate	
10.5. Incompatible mate	
	rials
Strong oxidizers. acids. Bases	
10.6. Hazardous decom	osition products

None under normal conditions.

SECTION 11: Toxicological informat	tion
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
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
WOLF AROW ISO 100	
Viscosity, kinematic	100 mm²/s @ 40°C

SECT	ION 12: Ecological information	
12.1.	Toxicity	
No addi	tional information available	
12.2.	Persistence and degradability	
WOLF	AROW ISO 100	
Persis	tence and degradability	Not soluble in water, so only minimally biodegradable.
12.3.	Bioaccumulative potential	
No addi	tional information available	
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Results of PBT and vPvB assessment	
	tional information available	
12.6.	Other adverse effects	
No additional information available		
SECTION 13: Disposal considerations		
13.1.	Waste treatment methods	
Addition	al information	Dispose in a safe manner in accordance with local/national regulations.
SECT	ION 14. Transport information	
SECTION 14: Transport information		
In accor	dance with ADR / RID / IMDG / IATA / ADI	Ν

14.1.	UN number	
Not regu	ulated for transport	
14.2.	UN proper shipping name	
Proper S	Shipping Name (ADR)	: Not applicable
Proper S	Shipping Name (IMDG)	: Not applicable
Proper S	Shipping Name (IATA)	: Not applicable
Proper S	Shipping Name (ADN)	: Not applicable
Proper S	Shipping Name (RID)	: Not applicable

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	in its amendment Regulation (EC) No. 453/2010		
14.3. Transport hazard class(es)			
ADR Transport hazard class(es) (ADR)	: Not applicable		
IMDG			
Transport hazard class(es) (IMDG)	: Not applicable		
IATA	· Not applicable		
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 groupPacking 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 Other information	: No		
Other mormation	: No supplementary information available		
14.6. Special precautions for user			
- Overland transport			
No data available			
- Transport by sea			
No data available			
- Air transport			
- Air transport No data available			
- Inland waterway transport			
- 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 XVI	I restrictions		
Contains no substance on the REACH candidate			
Contains no REACH Annex XIV substances			
15.1.2. National regulations	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	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)		
Immission Control Act - 12.BImSchV	· · · · · · · · ·		

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Netherlands
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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 giftige stoffen – Vruchtbaarheid NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	<ul> <li>Zinkalkyldithiophosphate is listed</li> <li>Zinkalkyldithiophosphate is listed</li> <li>None of the components are listed</li> <li>None of the components are listed</li> <li>None of the components are listed</li> </ul>
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

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#### SECTION 16: Other information

3.2		Composition/informatio n on ingredients	Modified			
bbreviatio	ons and acronyms:					
	ACGIH: American Con	ACGIH: American Conference of Governmental Industrial Hygienists				
	TWA: Time Weighted A	TWA: Time Weighted Average				
	TLV: Threshold Limit V	TLV: Threshold Limit Value				
	ASTM: American Socie	ASTM: American Society for Testing and Materials				
	ADR: Accord Européer	ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route				
	RID: Regulations Conc	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 Rhi					
	IMDG: International Maritime Dangerous Goods					
	ICAO: International Civ	ICAO: International Civil Aviation Organization				
	IATA: International Air	IATA: International Air Transport Association				
	STEL: Short Term Exp	STEL: Short Term Exposure Limit				
	LD50: median Lethal D	LD50: median Lethal Dose for 50% of subjects				
	ATE: acute toxicity esti	ATE: acute toxicity estimate				
	LC50: median Lethal C	LC50: median Lethal Concentration for 50% of subjects				
	EC50: concentration pr	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