

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 23/02/2009 Revision date: 13/12/2023 Supersedes version of: 10/02/2023 Version: 5.6

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

### **1.1. Product identifier**

Product form	:	Mixture
Product name	:	WOLF AROW ISO 32
Product code	:	4005
Type of product	:	WOLF
Product group	:	Blend

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

#### 1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec Industrial use,Professional use,Consumer use
 Non-dispersive use
 Used in closed systems
 Lubricants and additives

Function or use category 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

WOLF OIL CORPORATION N.V. Georges Gilliotstraat, 52 2620 Hemiksem – Antwerpen België T 0032 (0)3 870 00 00 - F 0032 (0)3 870 00 99 msds@wolfoil.com - https://www.wolflubes.com/

#### 1.4. Emergency telephone number

#### Emergency number

### : 0032 (0)3 870 00 00

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090	+356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Not classified

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#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

**EUH-statements** 

: EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

#### Comments

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

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,6-Di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	0.1 – 0.24	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
2,6-Di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	(35 ≤ C < 100) Skin Irrit. 2, H315

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Not expected to require first aid measures.</li> <li>Wash skin with mild soap and water.</li> <li>In case of eye contact, immediately rinse with clean water for 10-15 minutes.</li> <li>Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.</li> </ul>	
4.2. Most important symptoms and e	ffects, both acute and delayed	
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.	
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.	
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.	
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Symptoms/effects 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 Unsuitable extinguishing media	<ul><li>Water fog. Foam. Powder. Dry chemical product.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Special hazards arising from th	e substance or mixture	
No additional information available		
5.3. Advice for firefighters		
Precautionary measures fire	: Exercise caution when fighting any chemical fire.	

Firefighting instructions Protection during firefighting

: Use water spray or fog for cooling exposed containers.

: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures		
6.1. Personal precautions, prote	ctive 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 wate	ers. Notify authorities if product enters sewers or public waters.	
6.3. Methods and material for co	ntainment and cleaning up	
For containment	<ul> <li>Impound and recover large spill by mixing it with inert granular solids.</li> <li>Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.</li> </ul>	
Methods for cleaning up Other information	<ul> <li>Spill area may be slippery. Use suitable disposal containers.</li> </ul>	

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and stor	age	
7.1. Precautions for safe handling		
Precautions for safe handling	<ul> <li>Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.</li> </ul>	
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.	

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

No additional information available

### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

WOLF AROW ISO 32	
Belgium - Occupational Exposure Limits	
OEL TWA	5 mg/m³
OEL STEL	10 mg/m <sup>3</sup>

#### 8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

# Personal protective equipment:

Safety glasses. Gloves.

# Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

No additional information available

#### 8.2.2.2. Skin protection

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: brown.	
Appearance	: Oily liquid.	
Odour	: Characteristic.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not available	
Lower explosion limit	: Not available	
Upper explosion limit	: Not available	
Flash point	: 207 °C @ ASTM D92	
Auto-ignition temperature	: Not available	
Decomposition temperature	: Not available	
рН	: Not available	
Viscosity, kinematic	: 32 mm²/s @ 40°C	
Solubility	: Slightly soluble, the product remains on the water surface.	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: 876 kg/m³ @15°C	
Relative density	: Not available	
Relative vapour density at 20°C	: Not available	
Particle characteristics	: Not applicable	

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

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.

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SECTION 11: Toxicological information	
11.1. Information on hazard classes as define	d in Regulation (EC) No 1272/2008
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified
2,6-Di-tert-butylphenol (128-39-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
Skin corrosion/irritation:Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:	Not classified Not classified Not classified Not classified Not classified Not classified Not classified
STOT-repeated exposure : Aspiration hazard : WOLF AROW ISO 32	Not classified Not classified
Viscosity, kinematic	32 mm²/s @ 40°C

## 11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
(acute)	Not classified	
2,6-Di-tert-butylphenol (128-39-2)		
LC50 - Fish [1]	1.4 mg/l Pimephales promelas	
EC50 - Crustacea [1]	0.45 mg/l Daphnia magna	
EC50 72h - Algae [1]	1.2 mg/l Desmodesmus subspicatus	
NOEC chronic crustacea	0.035 mg/l Daphnia magna @21d	
NOEC chronic algae	0.64 mg/l Pseudokirchneriella subcapitata @96h	
12.2. Persistence and degradability		
WOLF AROW ISO 32		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
2,6-Di-tert-butylphenol (128-39-2)		
Biodegradation	≥ 12 – ≤ 24 %	

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12.3. Bioaccumulative potential			
2,6-Di-tert-butylphenol (128-39-2)			
Partition coefficient n-octanol/water (Log Pow)	4.5		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Endocrine disrupting properties			
No additional information available			
12.7. Other adverse effects			
No additional information available			
SECTION 12: Dispassi considerations			
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			
SECTION 14: Transport information In accordance with ADR / IMDG / IATA / ADN / RID			
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In accordance with ADR / IMDG / IATA / ADN / RID			
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number			
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (ADR)	: Not applicable		
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper shipping name	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper Shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	<ul><li>Not applicable</li><li>Not applicable</li></ul>		
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper Shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
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In accordance with ADR / IMDG / IATA / ADN / RID 14.1. UN number or ID number Not regulated for transport 14.2. UN proper shipping name Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) IMDG Transport hazard class(es) (IMDG) IATA	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		
In accordance with ADR / IMDG / IATA / ADN / RID  14.1. UN number or ID number  Not regulated for transport  14.2. UN proper shipping name  Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (RID)  14.3. Transport hazard class(es)  ADR Transport hazard class(es) (ADR)  IMDG Transport hazard class(es) (IMDG)  IATA Transport hazard class(es) (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul> * Not applicable		

Packing group (ADR) Packing group (IMDG)

: Not applicable

: Not applicable

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Packing group (IATA) Packing group (ADN) Packing group (RID)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.5. Environmental hazards	
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. Maritime transport in bulk acco	rding to IMO instruments

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

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) Storage class (LGK, TRGS 510) WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
 LGK 10-13 - Other combustible and non-combustible substances.

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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
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen –	: None of the components are listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed
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**

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	

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.

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Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
EUH210	Safety data sheet available on request.	
H315	Causes skin irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

Safety Data Sheet (SDS), EU

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.