

# MINOS XD 500 SPRAY - Unique multi-use lubricant, rust killer, water displacer

24-096

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- **1.1 Product identifier:** MINOS XD 500 SPRAY Unique multi-use lubricant, rust killer, water displacer 24-096
- 1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant uses: Impermeabilizing anticorrosion coating Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet: EVOCH

EVOCHEM S.A. Tzaverdella Place 133 41 PHILI , ATTICA - GREECE Phone.: 0030 210 5590460 , 0030 210 5590155 Fax: 0030 210 6254737 , 0030 210 5590244 info@evochem.gr ; vmergoupis@evochem.gr ; sales@evochem.gr www.evochem.gr

1.4 Emergency telephone number: National Poisoning Center 2107793777

# SECTION 2: HAZARDS IDENTIFICATION \*\*

## 2.1 Classification of the substance or mixture:

#### CLP Regulation (EC) nº 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) nº 1272/2008.

Aerosol 1: Pressurised container: May burst if heated., H229 Aerosol 1: Flammable aerosols, Category 1, H222 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412 Eye Irrit. 2: Eye irritation, Category 2, H319 Repr. 1B: Reproductive toxicity, Category 1B, H360D Skin Irrit. 2: Skin irritation, Category 2, H315 STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

#### 2.2 Label elements:

#### CLP Regulation (EC) nº 1272/2008:

Danger



#### Hazard statements:

Aerosol 1: H229 - Pressurised container: May burst if heated Aerosol 1: H222 - Extremely flammable aerosol Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects Eye Irrit. 2: H319 - Causes serious eye irritation Repr. 1B: H360D - May damage the unborn child. Skin Irrit. 2: H315 - Causes skin irritation STOT SE 3: H335 - May cause respiratory irritation **Precautionary statements:** 

- P101: If medical advice is needed, have product container or label at hand
- P102: Keep out of reach of children
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P211: Do not spray on an open flame or other ignition source
- P251: Do not pierce or burn, even after use
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P410+P412: Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122°F
- P501: Dispose of contents and / or their container according to the separated collection system used in your municipality

#### Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking

Substances that contribute to the classification

\*\* Changes with regards to the previous version

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# SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)

N-methyl-2-pyrrolidone; Organic modified polydimethylsiloxane ; 1,2,4-trimethylbenzene; Mesitylene

Additional Labelling (Annex XVII, REACH):

Restricted to professional users

# 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

\*\* Changes with regards to the previous version

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*

## 3.1 Substance:

Non-applicable

### 3.2 Mixture:

# Chemical description: Mixture composed of organic substances

# Components:

In accordance with Annex II of Regulation (EC) nº1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light 1 ATP CLP00	
EC: 265-149-8 Index: 649-422-00-2 REACH 01-2119484819-18-XXX	Regulation 1272/2008 Asp. Tox. 1: H304 - Danger	24 - <50 %
CAS: 64742-80-9	Distillates (petroleum) 1 ATP CLP00	
EC: 265-183-3 Index: 649-223-00-0 REACH 01-2119480406-37-XXX	Regulation 1272/2008 Asp. Tox. 1: H304; EUH066 - Danger	9,9 - <19 %
CAS: 872-50-4	N-methyl-2-pyrrolidone 1 ATP ATP09	
EC: 212-828-1 Index: 606-021-00-7 REACH 01-2119472430-46-XXX	Regulation 1272/2008 Eye Irrit. 2: H319; Repr. 1B: H360D; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	4,9 - <9,9 %
CAS: Non-applicable	Organic modified polydimethylsiloxane 1 Self-classified	
EC: Non-applicable Index: Non-applicable REACH Non-applicable	Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	4,9 - <9,9 %
CAS: 34590-94-8	Dipropylene Glycol Methyl Ether <sup>2</sup> Not classified	
EC: 252-104-2 Index: Non-applicable REACH 01-2119450011-60-XXX	Regulation 1272/2008	2,4 - <4,9 %
CAS: 95-63-6	1,2,4-trimethylbenzene 1 ATP CLP00	
EC: 202-436-9 Index: 601-043-00-3 REACH 01-2119472135-42-XXX	Regulation 1272/2008 Acute Tox. 4: H332; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	0,9 - <2,4 %
CAS: 108-67-8	Mesitylene 1 ATP CLP00	
EC: 203-604-4 Index: 601-025-00-5 REACH Non-applicable	Regulation 1272/2008 Aquatic Chronic 2: H411; Flam. Liq. 3: H226; STOT SE 3: H335 - Warning	0,9 - <2,4 %
	Ethylbenzene <sup>2</sup> ATP ATP06	
EC: 202-849-4 Index: 601-023-00-4	Regulation 1272/2008         Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	0,09 - <0,24 %
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH 01-2119489370-35-XXX CAS: 111-76-2 EC: 203-905-0	Regulation 1272/2008       Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger         2-butoxyethanol <sup>2</sup> ATP CLP00	0,09 - <0,24 %

To obtain more information on the risk of the substances consult sections 8, 11, 12, 15 and 16.

\*\* Changes with regards to the previous version

# SECTION 4: FIRST AID MEASURES

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#### SECTION 4: FIRST AID MEASURES (continued)

#### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

# 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

#### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

# 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inertization agent. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

## 6.3 Methods and material for containment and cleaning up:



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### SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

# It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

# 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid projections and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

#### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

 Minimum Temp.:
 5 °C

 Maximum Temp.:
 35 °C

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

Identification		Environmental li	mits	
N-methyl-2-pyrrolidone	IOELV (8h)	10 ppm	40 mg/m <sup>3</sup>	
CAS: 872-50-4	IOELV (STEL)	20 ppm	80 mg/m <sup>3</sup>	
EC: 212-828-1	Year	2017	•	
Dipropylene Glycol Methyl Ether	IOELV (8h)	50 ppm	308 mg/m <sup>3</sup>	
CAS: 34590-94-8	IOELV (STEL)			
EC: 252-104-2	Year	2017		
1,2,4-trimethylbenzene	IOELV (8h)	20 ppm	100 mg/m	
CAS: 95-63-6	IOELV (STEL)			
EC: 202-436-9	Year	2017	2017	
Mesitylene	IOELV (8h)	20 ppm	100 mg/m	
CAS: 108-67-8	IOELV (STEL)			
EC: 203-604-4	Year	2017		



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

	Identification			Environmental limits	
Ethylbenzene		IOELV	/ (8h)	100 ppm	442 mg/m <sup>3</sup>
CAS: 100-41-4		IOELV	/ (STEL)	200 ppm	884 mg/m <sup>3</sup>
EC: 202-849-4		Year		2017	
2-butoxyethanol		IOELV	/ (8h)	20 ppm	98 mg/m <sup>3</sup>
CAS: 111-76-2		IOELV	/ (STEL)	50 ppm	246 mg/m <sup>3</sup>
EC: 203-905-0		Year		2017	

### DNEL (Workers):

		Short	exposure	Long	Long exposure	
Identification		Systemic	Local	Systemic	Local	
N-methyl-2-pyrrolidone	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 872-50-4	Dermal	208 mg/kg	Non-applicable	19,8 mg/kg	Non-applicable	
EC: 212-828-1	Inhalation	80 mg/m <sup>3</sup>	Non-applicable	40 mg/m <sup>3</sup>	Non-applicable	
Dipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 34590-94-8	Dermal	Non-applicable	Non-applicable	65 mg/kg	Non-applicable	
EC: 252-104-2	Inhalation	Non-applicable	Non-applicable	310 mg/m <sup>3</sup>	Non-applicable	
1,2,4-trimethylbenzene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 95-63-6	Dermal	Non-applicable	Non-applicable	16171 mg/kg	Non-applicable	
EC: 202-436-9	Inhalation	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	
Mesitylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 108-67-8	Dermal	Non-applicable	Non-applicable	16171 mg/kg	Non-applicable	
EC: 203-604-4	Inhalation	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	100 mg/m <sup>3</sup>	
Ethylbenzene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable	
EC: 202-849-4	Inhalation	Non-applicable	293 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>	Non-applicable	
2-butoxyethanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable	
CAS: 111-76-2	Dermal	89 mg/kg	Non-applicable	75 mg/kg	Non-applicable	
EC: 203-905-0	Inhalation	663 mg/m <sup>3</sup>	246 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	Non-applicable	

# DNEL (General population):

		Short	exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
N-methyl-2-pyrrolidone	Oral	26 mg/kg	Non-applicable	6,3 mg/kg	Non-applicable
CAS: 872-50-4	Dermal	125 mg/kg	Non-applicable	11,9 mg/kg	Non-applicable
EC: 212-828-1	Inhalation	80 mg/m <sup>3</sup>	Non-applicable	12,5 mg/m <sup>3</sup>	Non-applicable
Dipropylene Glycol Methyl Ether	Oral	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
CAS: 34590-94-8	Dermal	Non-applicable	Non-applicable	15 mg/kg	Non-applicable
EC: 252-104-2	Inhalation	Non-applicable	Non-applicable	37,2 mg/m <sup>3</sup>	Non-applicable
1,2,4-trimethylbenzene	Oral	Non-applicable	Non-applicable	15 mg/kg	Non-applicable
CAS: 95-63-6	Dermal	Non-applicable	Non-applicable	9512 mg/kg	Non-applicable
EC: 202-436-9	Inhalation	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>
Mesitylene	Oral	Non-applicable	Non-applicable	15 mg/kg	Non-applicable
CAS: 108-67-8	Dermal	Non-applicable	Non-applicable	9512 mg/kg	Non-applicable
EC: 203-604-4	Inhalation	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>	29,4 mg/m <sup>3</sup>
Ethylbenzene	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
CAS: 100-41-4	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 202-849-4	Inhalation	Non-applicable	Non-applicable	15 mg/m <sup>3</sup>	Non-applicable
2-butoxyethanol	Oral	13,4 mg/kg	Non-applicable	3,2 mg/kg	Non-applicable
CAS: 111-76-2	Dermal	44,5 mg/kg	Non-applicable	38 mg/kg	Non-applicable
EC: 203-905-0	Inhalation	426 mg/m <sup>3</sup>	123 mg/m <sup>3</sup>	49 mg/m <sup>3</sup>	Non-applicable



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Distillates (petroleum)	STP	Non-applicable	Fresh water	Non-applicable
CAS: 64742-80-9	Soil	Non-applicable	Marine water	Non-applicable
EC: 265-183-3	Intermittent	Non-applicable	Sediment (Fresh water)	Non-applicable
	Oral	17000 g/kg	Sediment (Marine water)	Non-applicable
N-methyl-2-pyrrolidone	STP	10 mg/L	Fresh water	0,25 mg/L
CAS: 872-50-4	Soil	0,138 mg/kg	Marine water	0,025 mg/L
EC: 212-828-1	Intermittent	5 mg/L	Sediment (Fresh water)	1,42 mg/kg
	Oral	1,67 g/kg	Sediment (Marine water)	0,142 mg/kg
Dipropylene Glycol Methyl Ether	STP	4168 mg/L	Fresh water	19 mg/L
CAS: 34590-94-8	Soil	2,74 mg/kg	Marine water	1,9 mg/L
EC: 252-104-2	Intermittent	190 mg/L	Sediment (Fresh water)	70,2 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	7,02 mg/kg
1,2,4-trimethylbenzene	STP	2,41 mg/L	Fresh water	0,12 mg/L
CAS: 95-63-6	Soil	2,34 mg/kg	Marine water	0,12 mg/L
EC: 202-436-9	Intermittent	0,12 mg/L	Sediment (Fresh water)	13,56 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	13,56 mg/kg
Mesitylene	STP	2,02 mg/L	Fresh water	0,101 mg/L
CAS: 108-67-8	Soil	1,34 mg/kg	Marine water	0,101 mg/L
EC: 203-604-4	Intermittent	0,101 mg/L	Sediment (Fresh water)	7,86 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	7,86 mg/kg
Ethylbenzene	STP	9,6 mg/L	Fresh water	0,1 mg/L
CAS: 100-41-4	Soil	2,68 mg/kg	Marine water	0,01 mg/L
EC: 202-849-4	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	1,37 mg/kg
2-butoxyethanol	STP	463 mg/L	Fresh water	8,8 mg/L
CAS: 111-76-2	Soil	3,13 mg/kg	Marine water	0,88 mg/L
EC: 203-905-0	Intermittent	9,1 mg/L	Sediment (Fresh water)	34,6 mg/kg
	Oral	20 g/kg	Sediment (Marine water)	Non-applicable

#### 8.2 Exposure controls:

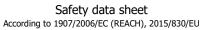
A.- General security and hygiene measures in the work place

As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases, vapours and particles	CAT III	EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.
C Specific protection	for the hands			t
Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	NON-disposable chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact wit skin.
	mixture of several substa and has therefore to be o			can not be calculated in advance with tota
renubling		encence prior a		





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Picto	gram	PPE	Labelling	CEN Standard	Remarks
Mandato	Try face	Face mask		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according the manufacturer's instructions. Use if there is risk of splashing.
protec			•		
E Bodily pro		DDF	Laballia a	CEN Chandand	
Picto		PPE	Labelling	CEN Standard	Remarks
Mandatory body pro	complete	osable clothing for ion against chemical with antistatic and proof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandato	againsi antistat	potwear for protection t chemical risk, with tic and heat resistant properties		EN 13287:2008 EN ISO 20345:2011 EN 13832-1:2006	Replace boots at any sign of deterioration.
	l emergency mea	asures			
Emer	gency measure	St	andards	Emergency measu	re Standards
Eme	rgency shower		SI Z358-1 864-1:2002	Eyewash stations	DIN 12 899 ISO 3864-1:2002
Environmen	tal exposure c	ontrols:			
of both the pr Volatile org	roduct and its co anic compound	ontainer. For additio ds:	onal informati	on of the environment it is re on see subsection 7.1.D owing characteristics:	ecommended to avoid environmental spil
V.O.C. (Suppl		79,07 % weight			
V.O.C. densit		672,13 kg/m <sup>3</sup>			
Average carb		9,71	(		
Average mole		147,27 g/mol			
-	-	-	ict which is rea	ady to use has the following	characteristics:
V.O.C. densit		672,13 kg/m <sup>3</sup>		,	
		B.E): 840 g/L (20			
Components:		, <u>,</u>			
			DTIEC		
TION 9: PHYS	ICAL AND CH	IEMICAL PROPE	INTILS		
		EMICAL PROPE		::	
Information	on basic phys		al properties	:	
Information	on basic phys	sical and chemica	al properties	:	
Information For complete	on basic phys information see	sical and chemica	al properties heet.	:: osol	
Information For complete Appearance	on basic phys information see	sical and chemica	al properties heet.	osol	
Information For complete Appearance Physical state	on basic phys information see	sical and chemica	<b>al properties</b> heet. Aer Flui	osol	
Information For complete Appearance Physical state Appearance:	on basic phys information see	sical and chemica	<b>al properties</b> heet. Aer Flui Not	osol	

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\*Not relevant due to the nature of the product, not providing information property of its hazards.

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# MINOS XD 500 SPRAY - Unique multi-use lubricant, rust killer, water displacer 24-096

SECT	ION 9: PHYSICAL AND CHEMICAL PROPERTIES	(continued)
	Volatility:	
	Boiling point at atmospheric pressure:	-42 °C (Propellant)
	Vapour pressure at 20 °C:	Non-applicable *
	Vapour pressure at 50 °C:	<300000 Pa (300 kPa)
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	850 kg/m³
	Relative density at 20 °C:	Non-applicable *
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	Non-applicable *
	, Concentration:	850 g/L (active ingredient)
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Recipient pressure:	Non-applicable *
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Flammability:	
	Flash Point:	-104 °C (Propellant)
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	410 °C (Propellant)
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Explosive:	
	Lower explosive limit:	Non-applicable *
	Upper explosive limit:	Non-applicable *
9.2	Other information:	
	Surface tension at 20 °C:	Non-applicable *
	Refraction index:	Non-applicable *
	*Not relevant due to the nature of the product, not providing informa-	ation property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

# 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

# **10.3** Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

# **10.4** Conditions to avoid:



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			24-096				
SECT	ION 10: STABILITY AND	REACTIVITY (continu	ued)				
	Applicable for handling and s	orage at room tempera	ture:				
	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
	Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable		
10.5	Incompatible materials:						
	Acids	Water	Combustive materials	Combustible materials	Others		
	Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases		
10.6	Hazardous decomposition	products:					
	See subsection 10.3, 10.4 an complex mixtures of chemica						
CECT							
SECT	ION 11: TOXICOLOGICAL	INFORMATION					
11.1	Information on toxicologi	cal effects:					
	The experimental information	related to the toxicolog	jical properties of the produc	t itself is not available			
	Contains glycols. With possib periods of time.	lity of effects that are h	azardous to the health, it is	recommended not to brea	athe the vapours for long		
	Dangerous health implica	tions:					
	dangerous for consumption	s on health depending d on available data, the on. For more information	on the means of exposure: classification criteria are not n see section 3.	met, however, it contains	substances classified as		
	<ul> <li>Corrosivity/Irritability: vomiting.</li> </ul>	The consumption of a	considerable dose can cause	irritation in the throat, at	odominal pain, nausea and		
	B- Inhalation (acute effect):						
	dangerous for inhalation.	For more information se Causes irritation in resp	piratory passages, which is r				
	- Contact with the skin:	Produces skin inflamma	ation.				
		: Produces eye damage					
	D- CMR effects (carcinogenio	ity, mutagenicity and to	xicity to reproduction):				
	<ul> <li>Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.</li> <li>Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.</li> <li>Reproductive toxicity: May damage the unborn child.</li> </ul>						
	dangerous with sensitisin	g effects. For more infor available data, the class	sification criteria are not met				
	F- Specific target organ toxic						
	Causes irritation in respira	atory passages, which is	normally reversible and limit	ited to the upper respirato	ory passages.		
	G- Specific target organ toxi						

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.

Skin: Repeated exposure may cause skin dryness or cracking



# minos

# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

H- Aspiration hazard:

Based on available data, the classification criteria are not met, however it does contain substances classified as dangerous for this effect. For more information see section 3.

# Other information:

Non-applicable

#### Specific toxicology information on the substances:

Ident	Identification			Genus
1,2,4-trimethylbenzene		LD50 oral	3400 mg/kg	Rat
CAS: 95-63-6		LD50 dermal	3160 mg/kg	Rabbit
EC: 202-436-9		LC50 inhalation	11 mg/L (4 h)	Rat
N-methyl-2-pyrrolidone		LD50 oral	3598 mg/kg	Rat
CAS: 872-50-4		LD50 dermal	7000 mg/kg	Rat
EC: 212-828-1		LC50 inhalation	Non-applicable	
Mesitylene		LD50 oral	6000 mg/kg	Rat
CAS: 108-67-8		LD50 dermal	Non-applicable	
EC: 203-604-4		LC50 inhalation	Non-applicable	
Distillates (petroleum)		LD50 oral	7400 mg/kg	Rat
CAS: 64742-80-9		LD50 dermal	Non-applicable	
EC: 265-183-3		LC50 inhalation	Non-applicable	
Ethylbenzene		LD50 oral	3500 mg/kg	Rat
CAS: 100-41-4		LD50 dermal	15354 mg/kg	Rabbit
EC: 202-849-4		LC50 inhalation	17,2 mg/L (4 h)	Rat
2-butoxyethanol		LD50 oral	500 mg/kg	Rat
CAS: 111-76-2		LD50 dermal	1100 mg/kg	Rat
EC: 203-905-0		LC50 inhalation	11 mg/L (4 h)	Rat

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

#### 12.1 Toxicity:

Identification		Acute toxicity	Species	Genus
Distillates (petroleum)	LC50	54 mg/L (96 h)	Jornadella floridae	Fish
CAS: 64742-80-9	EC50	Non-applicable		
EC: 265-183-3	EC50	Non-applicable		
N-methyl-2-pyrrolidone	LC50	832 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 872-50-4	EC50	4897 mg/L (48 h)	Daphnia magna	Crustacea
EC: 212-828-1	EC50	500 mg/L (72 h)	Scenedesmus subspicatus	Algae
Dipropylene Glycol Methyl Ether	LC50	10000 mg/L (96 h)	Pimephales promelas	Fish
CAS: 34590-94-8	EC50	1919 mg/L (48 h)	Daphnia magna	Crustacea
EC: 252-104-2	EC50	Non-applicable		
1,2,4-trimethylbenzene	LC50	7.72 mg/L (96 h)	Pimephales promelas	Fish
CAS: 95-63-6	EC50	6.14 mg/L (48 h)	Daphnia magna	Crustacea
EC: 202-436-9	EC50	Non-applicable		
Mesitylene	LC50	12.5 mg/L (96 h)	Carassius auratus	Fish
CAS: 108-67-8	EC50	50 mg/L (24 h)	Daphnia magna	Crustacea
EC: 203-604-4	EC50	53 mg/L (48 h)	Scenedesmus subspicatus	Algae
Ethylbenzene	LC50	42.3 mg/L (96 h)	Pimephales promelas	Fish
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacea
EC: 202-849-4	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae



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Identification		Acute toxicity	Sper	cies	Geni
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis m	acrochirus	Fish
CAS: 111-76-2	EC50	1815 mg/L (48 h)	Daphnia	i magna	Crusta
EC: 203-905-0	EC50	911 mg/L (72 h)	Pseudokirchneri	ella subcapitata	Alga
Persistence and degradability:					
Identification		Degradability	Bic	odegradability	
N-methyl-2-pyrrolidone	BOD5	1.09 g O2/g	Concentration	100 mg/L	
CAS: 872-50-4	COD	1.6 g O2/g	Period	28 days	
EC: 212-828-1	BOD5/COD	0.68	% Biodegradable	73 %	
Dipropylene Glycol Methyl Ether	BOD5	Non-applicable	Concentration	Non-appli	icable
CAS: 34590-94-8	COD	0.00202 g O2/g	Period	28 days	
EC: 252-104-2	BOD5/COD	Non-applicable	% Biodegradable	73 %	
1,2,4-trimethylbenzene	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 95-63-6	COD	Non-applicable	Period	28 days	
EC: 202-436-9	BOD5/COD	0.43	% Biodegradable	18 %	
Mesitylene	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 108-67-8	COD	Non-applicable	Period	14 days	
EC: 203-604-4	BOD5/COD	Non-applicable	% Biodegradable	0 %	
Ethylbenzene	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 100-41-4	COD	Non-applicable	Period	14 days	
EC: 202-849-4	BOD5/COD	Non-applicable	% Biodegradable	90 %	
2-butoxyethanol	BOD5	0.71 g O2/g	Concentration	100 mg/L	-
CAS: 111-76-2	COD	2.2 g O2/g	Period	14 days	
EC: 203-905-0	BOD5/COD	0.32	% Biodegradable	96 %	

# 12.3 Bioaccumulative potential:

Identification		accumulation potential
Distillates (petroleum), hydrotreated light	BCF	130
CAS: 64742-47-8	Pow Log	3.3
EC: 265-149-8	Potential	High
N-methyl-2-pyrrolidone	BCF	0.23
CAS: 872-50-4	Pow Log	-0.46
EC: 212-828-1	Potential	Low
Dipropylene Glycol Methyl Ether	BCF	1
CAS: 34590-94-8	Pow Log	-0.06
EC: 252-104-2	Potential	Low
1,2,4-trimethylbenzene	BCF	154
CAS: 95-63-6	Pow Log	3.78
EC: 202-436-9	Potential	High
Mesitylene	BCF	182
CAS: 108-67-8		3.42
EC: 203-604-4	Potential	High
Ethylbenzene	BCF	1
CAS: 100-41-4		3.15
EC: 202-849-4	Potential	Low
2-butoxyethanol	BCF	3
CAS: 111-76-2	Pow Log	0.83
EC: 203-905-0		Low

### 12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
N-methyl-2-pyrrolidone	Кос	Non-applicable	Henry	Non-applicable
CAS: 872-50-4	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 212-828-1	Surface tension	4,007E-2 N/m (25 °C)	Moist soil	Non-applicable



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624.16 Pa·m<sup>3</sup>/mol

888,62 Pa·m<sup>3</sup>/mol

798,44 Pa·m<sup>3</sup>/mol

1,621E-1 Pa·m3/mol

Yes

Yes

Yes

Yes

Yes

Yes

No

Yes

#### SECTION 12: ECOLOGICAL INFORMATION (continued) Identification Absorption/desorption Volatility 537 1,2,4-trimethylbenzene (OC Henry CAS: 95-63-6 Conclusion low )rv soil Surface tension 1oist soil FC· 202-436-9 2,919E-2 N/m (25 °C) 1445 Mesitylene 'n lenrv CAS: 108-67-8 Low Conclusion Dry soi 2,805E-2 N/m (25 °C) EC: 203-604-4 Surface tension loist soil Ethylbenzene 520 Henry Koc

Conclusion

Conclusion

Koc

Surface tension

Surface tension

#### 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

# 12.6 Other adverse effects:

Not described

CAS: 100-41-4

EC: 202-849-4

2-butoxyethanol

CAS: 111-76-2

FC· 203-905-0

# SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)	
16 05 04*	Gases in pressure containers (including halons) containing dangerous substances	Dangerous	

Moderate

Very High

2,859E-2 N/m (25 °C)

2,729E-2 N/m (25 °C)

Dry soil

Moist soil

Henrv

Dry soil

Moist soil

# Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP4 Irritant — skin irritation and eye damage, HP10 Toxic for reproduction

## Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

# Regulations related to waste management:

In accordance with Annex II of Regulation (EC) nº1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2017 and RID 2017:



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SECTION 14: TRANSPORT I	NFORMATION (continued)					
	UN available					
	UN number:	UN1950				
	UN proper shipping name: Transport hazard class(es):	AEROSOLS, flammable				
14.3	Labels:	2 2.1				
14.4	Packing group:	N/A				
2 14.5	Environmental hazards:	No				
▼ -	Special precautions for user					
1.10	Special regulations:	190, 327, 344, 625				
	Tunnel restriction code:	D				
	Physico-Chemical properties:	see section 9				
	Limited quantities:	1L				
14.7	Transport in bulk according to	Non-applicable				
	Annex II of Marpol and the					
	IBC Code:					
Transport of dangero						
With regard to IMDG 38-	-16:					
14.1	UN number:	UN1950				
<b>A</b> 14.2	UN proper shipping name:	AEROSOLS, flammable				
14.3	Transport hazard class(es):	2				
	Labels:	2.1				
	Packing group:	N/A				
	Environmental hazards:	No				
<b>V</b> 14.6	Special precautions for user					
	Special regulations:	63, 959, 190, 277, 327, 344				
	EmS Codes:	F-D, S-U				
	Physico-Chemical properties:	see section 9				
147	Limited quantities: Transport in bulk according to					
14.7	Annex II of Marpol and the	Non-applicable				
	IBC Code:					
Transport of dangerous goods by air:						
With regard to IATA/ICAO 2017:						
<b>A</b> 14.1	UN number:	UN1950				
	UN proper shipping name:	AEROSOLS, flammable				
	Transport hazard class(es):	2				
	Labels:	2.1				
2 14.4	Packing group:	N/A				
14.5	<b>Environmental hazards:</b>	No				
14.6	Special precautions for user					
	Physico-Chemical properties:	see section 9				
14.7	Transport in bulk according to	Non-applicable				
	Annex II of Marpol and the IBC Code:					

# SECTION 15: REGULATORY INFORMATION

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): N-methyl-2-pyrrolidone Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012: Non-applicable REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

- CONTINUED ON NEXT PAGE -

minor



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# SECTION 15: REGULATORY INFORMATION (continued)

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 2004/37/EC Directive and later modifications.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers Commission Directive 94/1/EC of 6 January 1994 adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of the relating Member States to aerosol dispensers

Commission Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers

Commission Directive 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION \*\*

#### Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) Nº 1907/2006 (Regulation (EC) Nº 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3):

Removed substances

Perchloroethylene (127-18-4)

CLP Regulation (EC) no 1272/2008 (SECTION 2, SECTION 16):

Hazard statements

#### Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation

H335: May cause respiratory irritation

- H412: Harmful to aquatic life with long lasting effects
- H360D: May damage the unborn child.
- H229: Pressurised container: May burst if heated
- H222: Extremely flammable aerosol
- H319: Causes serious eye irritation

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) nº 1272/2008:

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled Acute Tox. 4: H332 - Harmful if inhaled Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways Eye Irrit. 2: H319 - Causes serious eye irritation Flam. Liq. 2: H225 - Highly flammable liquid and vapour Flam. Liq. 3: H226 - Flammable liquid and vapour Repr. 1B: H360D - May damage the unborn child. Skin Irrit. 2: H315 - Causes skin irritation STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure STOT SE 3: H335 - May cause respiratory irritation

\*\* Changes with regards to the previous version





## SECTION 16: OTHER INFORMATION \*\* (continued) **Classification procedure:** Skin Irrit. 2: Calculation method STOT SE 3: Calculation method Aquatic Chronic 3: Calculation method Repr. 1B: Calculation method Aerosol 1: Calculation method Aerosol 1: Calculation method Eye Irrit. 2: Calculation method Advice related to training: Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. **Principal bibliographical sources:** http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

\*\* Changes with regards to the previous version

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.