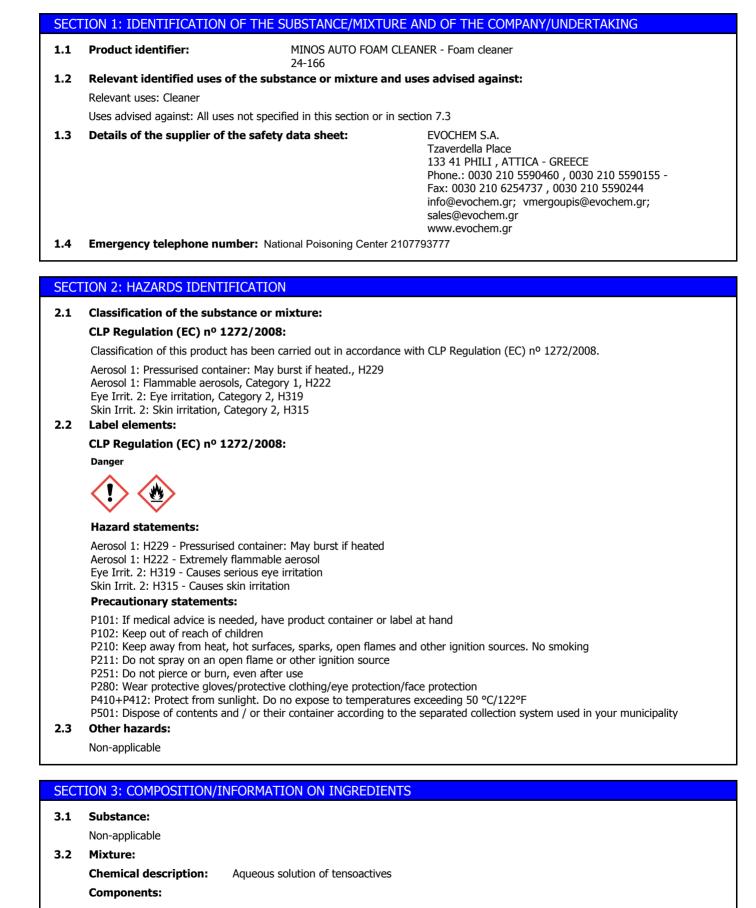


Safety data sheet According to 1907/2006/EC (REACH), 453/2010/EC



# MINOS AUTO FOAM CLEANER - Foam cleaner 24-166



Date of compilation: 6/22/2015





### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continue)

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

	Identification		Chemical name/Classification		Concentration
CAS: EC:	67-63-0 200-661-7	Propan-2-ol		ATP CLP00	
ndex:	603-117-00-0 01-2119457558-25-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	<u>()</u>	4,9 - <9,9 %
AS:	532-32-1	Sodium benzoate		Self-classified	
	208-534-8 Non-applicable 01-2119460683-35-XXXX	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	()	0,9 - <2,4 %
	872-50-4	N-methyl-2-pyrrolide	one	ATP ATP01	
	212-828-1 606-021-00-7 01-2119472430-46-XXXX		Eye Irrit. 2: H319; Repr. 1B: H360D; Skin Irrit. 2: H315; STOT SE 3: H335 - Danger	(!)	0,9 - <2,4 9
AS:	1310-73-2	Sodium hydroxide		ATP CLP00	
	215-185-5 011-002-00-6 01-2119457892-27-XXXX	Regulation 1272/2008	Skin Corr. 1A: H314 - Danger		0,9 - <2,4 9
	107-98-2	1-methoxy-2-propan	ol	ATP ATP01	
	203-539-1 603-064-00-3 01-2119457435-35-XXXX	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336 - Warning		0,24 - <0,9 %
CAS:	111-76-2	2-butoxyethanol		ATP CLP00	
	203-905-0 603-014-00-0 01-2119475108-36-XXXX	Regulation 1272/2008	Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	$\diamondsuit$	0,09 - <0,2 %

# SECTION 4: FIRST AID MEASURES

### 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:

This product does not contain substances classified as dangerous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

### By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Security Data Sheet

## By eye contact:

This product does not contain substances classified as dangerous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.

### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. 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:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

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





### SECTION 5: FIREFIGHTING MEASURES (continue)

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. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### 6.2 Environmental precautions:

This product is not classified as dangerous to the environment. Keep product away from drains, surface and underground water.

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

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

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Minimum Temp.:	5 °C
Maximun 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 lir	invironmental limits		
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	2014			
1-methoxy-2-propanol	IOELV (8h)	100 ppm	375 mg/m <sup>3</sup>		
CAS: 107-98-2	IOELV (STEL)	150 ppm	563 mg/m <sup>3</sup>		
EC: 203-539-1	Year	2014			
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	2014			

### DNEL (Workers):

			exposure	Long	exposure
Identification		Systemic	Local	Systemic	Local
Propan-2-ol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 67-63-0	Dermal	Non-applicable	Non-applicable	888 mg/kg	Non-applicable
EC: 200-661-7	Inhalation	Non-applicable	Non-applicable	500 mg/m <sup>3</sup>	Non-applicable
Sodium benzoate	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 532-32-1	Dermal	Non-applicable	Non-applicable	62,5 mg/kg	Non-applicable
EC: 208-534-8	Inhalation	Non-applicable	Non-applicable	3 mg/m <sup>3</sup>	0,1 mg/m <sup>3</sup>
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
Sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>
1-methoxy-2-propanol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 107-98-2	Dermal	Non-applicable	Non-applicable	50,6 mg/kg	Non-applicable
EC: 203-539-1	Inhalation	Non-applicable	553,5 mg/m <sup>3</sup>	369 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
Propan-2-ol	Oral	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
CAS: 67-63-0	Dermal	Non-applicable	Non-applicable	319 mg/kg	Non-applicable
EC: 200-661-7	Inhalation	Non-applicable	Non-applicable	89 mg/m <sup>3</sup>	Non-applicable
Sodium benzoate	Oral	Non-applicable	Non-applicable	16,6 mg/kg	Non-applicable
CAS: 532-32-1	Dermal	Non-applicable	Non-applicable	31,25 mg/kg	Non-applicable
EC: 208-534-8	Inhalation	Non-applicable	Non-applicable	1,5 mg/m <sup>3</sup>	0,06 mg/m <sup>3</sup>
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
Sodium hydroxide	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 1310-73-2	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 215-185-5	Inhalation	Non-applicable	Non-applicable	Non-applicable	1 mg/m <sup>3</sup>
1-methoxy-2-propanol	Oral	Non-applicable	Non-applicable	3,3 mg/kg	Non-applicable
CAS: 107-98-2	Dermal	Non-applicable	Non-applicable	18,1 mg/kg	Non-applicable
EC: 203-539-1	Inhalation	Non-applicable	Non-applicable	43,9 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





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

#### PNEC:

Identification				
Propan-2-ol	STP	2251 mg/L	Fresh water	140,9 mg/L
CAS: 67-63-0	Soil	28 mg/kg	Marine water	140,9 mg/L
EC: 200-661-7	Intermittent	140,9 mg/L	Sediment (Fresh water)	552 mg/kg
	Oral	160 g/kg	Sediment (Marine water)	552 mg/kg
Sodium benzoate	STP	10 mg/L	Fresh water	0,13 mg/L
CAS: 532-32-1	Soil	0,000265 mg/kg	Marine water	0,013 mg/L
EC: 208-534-8	Intermittent	0,305 mg/L	Sediment (Fresh water)	1,76 mg/kg
	Oral	300 g/kg	Sediment (Marine water)	0,176 mg/kg
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
1-methoxy-2-propanol	STP	100 mg/L	Fresh water	10 mg/L
CAS: 107-98-2	Soil	5,49 mg/kg	Marine water	1 mg/L
EC: 203-539-1	Intermittent	100 mg/L	Sediment (Fresh water)	52,3 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	5,2 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

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Chemical protective gloves	CATI	EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	Replace the gloves at any sign of deterioration.

D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory face protection	Panoramic glasses against liquid splash	CAT II	EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI	EN ISO 13688:2013	For professional use only.





ECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)				
Pictogram	PPE	Labelling	CEN Standard	Remarks
	Anti-slip work shoes	CAT II	EN ISO 20347:2012 EN ISO 20344:2011	None
F Additional emerge	ncy measures	<u> </u>		
Emergency meas	sure	Standards	Emergency measu	re Standards
Emergency sho	ISO	NSI Z358-1 3864-1:2002	Eyewash stations	DIN 12 899 ISO 3864-1:2002
	e community legislation		on of the environment it is nformation see subsectior	s recommended to avoid environmental
Volatile organic cor				
With regard to Directiv	ve 2010/75/EU, this pr	oduct has the fol	lowing characteristics:	
V.O.C. (Supply):	30,25 % weig	jht		
V.O.C. density at 20 °	C: 302,46 kg/m <sup>3</sup>	<sup>3</sup> (302,46 g/L)		
Average carbon numb	er: 3,43	3,43		
Average molecular we	eight: 68,9 g/mol	างไ		
With regard to Directiv	With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:			ng characteristics:
V.O.C. density at 20 °	C: 302,46 kg/m <sup>3</sup>	<sup>3</sup> (302,46 g/L)		
EUlimit for the produc	t (Cat. B.E): 840 g/L (	2010)		
Components: Non-a	applicable			

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:		
Physical state at 20 °C:	Aerosol	
Appearance:	Fluid	
Color:	Colourless	
Odor:	Characteristic	
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:	1000 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:	1000 g/L (active ingredient)	
pH:	Non-applicable *	
*Not relevant due to the nature of the product, not prov	iding information property of its hazards.	



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SECT	TION 9: PHYSICAL AND CHEMICAL PROPERT	TIES (continue)
	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 *
	Flammability:	
	Flash Point:	-104 °C (Propellant)
	Autoignition temperature:	410 °C (Propellant)
	Lower flammability limit:	Non-applicable *
	Upper flammability 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	information property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. 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:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity		
Not applicable	Not applicable	Not applicable	Avoid direct impact	Not applicable		
Incompatible materials:						

### 10.5

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Avoid direct impact	Not applicable	Not applicable

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.

# SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

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

Contains glycols. With possibility of effects that are hazardous to the health, it is recommended not to breathe the vapours for long periods of time.

### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure: A.- Ingestion:





# SECTION 11: TOXICOLOGICAL INFORMATION (continue)

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation:

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.

- Corrosivity/Irritability: 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.

C- Contact with the skin and the eyes:

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- 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.

- 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.

- Reproductive toxicity: 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.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensibilizising effects. For more information see section 3.

- Cutaneous: 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.
- F- Specific target organ toxicity (STOT)-time exposure:

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

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: 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.
  - Skin: 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.
- H- Aspiration hazard:

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.

### Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	A	cute toxicity	Genus
Propan-2-ol	LD50 oral	5280 mg/kg	Rat
CAS: 67-63-0	LD50 dermal	12800 mg/kg	Rat
EC: 200-661-7	LC50 inhalation	72,6 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	
Sodium benzoate	LD50 oral	4070 mg/kg	Rat
CAS: 532-32-1	LD50 dermal	Non-applicable	
EC: 208-534-8	LC50 inhalation	Non-applicable	
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





# SECTION 12: ECOLOGICAL INFORMATION (continue)

### 12.1 Toxicity:

Identification		Acute toxicity	Specie	Genus
Propan-2-ol	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
CAS: 67-63-0	EC50	13299 mg/L (48 h)	Daphnia magna	Crustacea
EC: 200-661-7	EC50	1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
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
Sodium hydroxide	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
CAS: 1310-73-2	EC50	33 mg/L	Crangon crangon	Crustacea
EC: 215-185-5	EC50	Non-applicable		
1-methoxy-2-propanol	LC50	20800 mg/L (96 h)	Pimephales promelas	Fish
CAS: 107-98-2	EC50	23300 mg/L (48 h)	Daphnia magna	Crustacea
EC: 203-539-1	EC50	1000 mg/L (168 h)	Selenastrum capricornutum	Algae
2-butoxyethanol	LC50	1490 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 111-76-2	EC50	1815 mg/L (48 h)	Daphnia magna	Crustacea
EC: 203-905-0	EC50	911 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

# 12.2 Persistence and degradability:

Identification	D	Degradability		Biodegradability	
Propan-2-ol	BOD5	1.19 g O2/g	Concentration	100 mg/L	
CAS: 67-63-0	COD	2.23 g O2/g	Period	14 days	
EC: 200-661-7	BOD5/COD	0.53	% Biodegradable	86 %	
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 %	
1-methoxy-2-propanol	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 107-98-2	COD	Non-applicable	Period	28 days	
EC: 203-539-1	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	Bi	Bioaccumulation potential		
Propan-2-ol	BCF	3		
CAS: 67-63-0	Pow Log	0,05		
EC: 200-661-7	Potential	Low		
N-methyl-2-pyrrolidone	BCF	0,23		
CAS: 872-50-4	Pow Log	-0,46		
EC: 212-828-1	Potential	Low		
1-methoxy-2-propanol	BCF	3		
CAS: 107-98-2	Pow Log	-0,44		
EC: 203-539-1	Potential	Low		
2-butoxyethanol	BCF	3		
CAS: 111-76-2	Pow Log	0,83		
EC: 203-905-0	Potential	Low		

### 12.4 Mobility in soil:

Identification	Absor	Absorption/desorption		Volatility	
Propan-2-ol	Кос	1,5	Henry	8,207E-1 Pa·m <sup>3</sup> /mo	
CAS: 67-63-0	Conclusion	Very High	Dry soil	Yes	
EC: 200-661-7	Surface tension	22400 N/m (25 ºC)	Moist soil	Yes	
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	40070 N/m (25 ℃)	Moist soil	Non-applicable	





# SECTION 12: ECOLOGICAL INFORMATION (continue)

Ident	ification	Absorp	otion/desorption		Volatility		
2-butoxyethanol		Кос	8	Henry	1,621E-1 Pa·m <sup>3</sup> /mol		
CAS: 111-76-2		Conclusion	Very High	Dry soil	No		
EC: 203-905-0		Surface tension	27290 N/m (25 °C)	Moist soil	Yes		
12.5 Results of PBT and vi	PvB assessment:						

#### Non-applicable

#### 12.6 Other adverse effects:

Not described

### 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

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

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)  $n^{0}1907/2006$  (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 2015 and RID 2015:

14	.1 UN number:	UN1950
14	.2 UN proper shipping name:	AEROSOLS, flammable
14	.3 Transport hazard class(es):	2
$\langle - \rangle$	Labels:	2.1
14	4 Packing group:	N/A
14	.5 Dangerous for the	No
	environment:	
14	.6 Special precautions for user	
	Special regulations:	190, 327, 625
	Tunnel restriction code:	D
	Physico-Chemical properties:	see section 9
	Limited quantities:	1 L
14	7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable
Transport of dang	erous goods by sea:	
With regard to IMDG	37-14:	



Safety data sheet According to 1907/2006/EC (REACH), 453/2010/EC



# MINOS AUTO FOAM CLEANER - Foam cleaner 24-166

SECTION 14: TRANSPORT	CTION 14: TRANSPORT INFORMATION (continue)			
14.1	UN number:	UN1950		
		AEROSOLS, flammable		
	UN proper shipping name:	,		
14.3	Transport hazard class(es):	2		
	Labels:	2.1		
	Packing group:	N/A		
2 14.5	Dangerous for the environment:	No		
14.6	Special precautions for user			
	Special regulations:	Non-applicable		
	EmS Codes:	F-D, S-U		
	Physico-Chemical properties:	see section 9		
	Limited quantities:	1L		
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable		
Transport of dangero	us goods by air:			
With regard to IATA/ICA	AO 2015:			
14.1	UN number:	UN1950		
14.2	UN proper shipping name:	AEROSOLS, flammable		
14.3	Transport hazard class(es):	2		
	Labels:	2.1		
2 14.4	Packing group:	N/A		
14.5	Dangerous for the environment:	No		
14.6	Special precautions for user			
	Physico-Chemical properties:	see section 9		
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Non-applicable		

# 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

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Sodium benzoate (excluded for the product type 1, 2, 6, 11)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Regulation (EC) nº648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradibility criteria stipulated in Regulation (EC)  $n^{0}648/2004$  on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

# Contents labelled:

Concentration interval
15 <= % (w/w) < 30
% (w/w) < 5

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

Non-applicable

#### 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.





### SECTION 15: REGULATORY INFORMATION (continue)

### **Other legislation:**

The product could be affected by sectorial legislation

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII

Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

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 453/2010)

### Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable

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

H319: Causes serious eye irritation

H315: Causes skin irritation

H229: Pressurised container: May burst if heated

H222: Extremely flammable aerosol

### 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 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 Corr. 1A: H314 - Causes severe skin burns and eye damage Skin Irrit. 2: H315 - Causes skin irritation STOT SE 3: H335 - May cause respiratory irritation STOT SE 3: H336 - May cause drowsiness or dizziness **Classification procedure:** Eye Irrit. 2: Calculation method Skin Irrit. 2: Calculation method

Aerosol 1: Calculation method Aerosol 1: 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://esis.jrc.ec.europa.eu http://echa.europa.eu http://eur-lex.europa.eu

# Abbreviations and acronyms:





# SECTION 16: OTHER INFORMATION (continue)

- 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
- -CL50: Lethal Concentration 50
- -EC50: Effective concentration 50
- -Log-POW: Octanol-water partition coefficient
- -Koc: Partition coefficient of organic carbon

The information contained in this security 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 security data sheet only refers to this product, which should not be used for needs other than those specified.