



according to Regulation (EC) No 1907/2006

ADDINOL Electro Contact Spray

Print date: 29.05.2015

Product code: 717302

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

1.1. Product identifier

ADDINOL Electro Contact Spray

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

Use of the substance/mixture

Aerosol - Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Company name:	ADDINOL Lube Oil GmbH	
	Gebäude 4609	
Street:	Am Haupttor	
Place:	D-06237 Leuna	
Telephone:	+49 (0) 3461 845-0	Telefax: +49 (0) 3461 845-555
e-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	
1.4. Emergency telephone	+49 (0) 3461-845201 - This number is	serviced during office hours.

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F+ - Extremely flammable R phrases: Extremely flammable. Repeated exposure may cause skin dryness or cracking. This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

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

Hazard categories: Flammable gas: Flam. Gas 1 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated.

2.2. Label elements

Signal word:		
Pictograms:		

Danger GHS02



Hazard statements

H222	
H229	

Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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P211	Do not spray on an open flame or other ignition source.	
P251	Do not pierce or burn, even after use.	
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	

Additional advice on labelling

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
918-167-1	Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	< 50 %
	Xn - Harmful R65-66	
	Flam. Liq. 3, Asp. Tox. 1; H226 H304 EUH066	
01-2119472146-39		
203-448-7	butane	< 20 %
106-97-8	F+ - Extremely flammable R12	
601-004-00-0	Flam. Gas 1; H220	
200-827-9	propane	< 10 %
74-98-6	F+ - Extremely flammable R12	
601-003-00-5	Flam. Gas 1; H220	
203-905-0	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	< 2,50 %
111-76-2	Xn - Harmful, Xi - Irritant R20/21/22-36/38	
603-014-00-0	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H332 H312 H302 H319 H315	

Full text of R-, H- and EUH-phrases: see section 16.

Further Information

DMSO-Extrakt < 3 %, IP 346.

Concentration of PCBs < 1mg/kg.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down. Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position. Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.





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In case of breathing difficulties administer oxygen.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

following inhalation: drowsiness. Headache. Nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. alcohol resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx). carbon black.

Flammable.. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Wear a self-contained breathing apparatus and chemical resistant suit. Vapours are heavier than air and will spread at floor level. Avoid contact with skin and eyes. Keep away from sources of ignition. - No smoking.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Refer to the provisions listed in Sections 8, 12 and 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray on naked flames or any incandescent material. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Avoid contact with skin, eye and clothing.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Heating causes rise in pressure with risk of bursting.

Further information on handling

People who suffer from asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep container tightly closed in a cool place. Keep away from sources of ignition. - No smoking.

Please note: TRG 300, aerosol directive (75/324/EEC).

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agents. Material, rich in oxygen, oxidizing.

Further information on storage conditions

Recommended storage temperature: 10 - 30°C. Do not store at temperatures over: 50°C.

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
111-76-2	2-Butoxyethanol	20	98		TWA (8 h)	
		50	246		STEL (15 min)	
106-97-8	Aliphatic hydrocarbon gases, Alkanes (C1-C4), Butane	1000	_		TWA (8 h)	
		-	-		STEL (15 min)	
74-98-6	Aliphatic hydrocarbon gases, Alkanes (C1-C4), Propane	1000	-		TWA (8 h)	
			-		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	ВАА	200 mg/g	Creatinine	End of shift



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Additional advice on limit values

source:

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Duration of wearing with permanent contact: 480 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	gaseous		
Colour:	light yellow		
Odour:	odourless		
			Test method
Changes in the physical state			
Initial boiling point and boiling ra	inge:	< -20 °C	
Flash point:		< -20 °C	DIN EN ISO 2592
Explosive properties			
In case of insufficie	nt ventilation and/or through use, exp	plosive/highly flammable m	ixtures may develop.
Lower explosion limits:		1,5 vol. %	
Upper explosion limits:		10,8 vol. %	
Ignition temperature:		365 °C	DIN 51794



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Density (at 20 °C):	0,765 g/cm³ DIN 51757					
Water solubility: (at 20 °C)	insoluble					
Viscosity / kinematic:	not applicable					

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable with proper care and handling.

10.2. Chemical stability

The product is chemically stable when handled and stored under normal conditions.

10.3. Possibility of hazardous reactions

Ignition hazard.

Vapours may form explosive mixtures with air.

10.4. Conditions to avoid

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Take precautionary measures against static discharges. See protective measures under point 7 and 8.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide. Nitrogen oxides (NOx). carbon black.

Vapours may form explosive mixtures with air.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No data available

Mixture not tested.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
106-97-8	butane			-	
	inhalative (4 h) gas	LC50	273000 ppm	Rat	GESTIS
111-76-2	2-butoxyethanol, butyl cellosolve, e	ethylene gly	col monobutyl ether	-	
	oral	LD50	470 mg/kg	Rat	
	dermal	ATE	1100 mg/kg		
	inhalative gas	ATE	4500 ppm		

Irritation and corrosivity

Irritant effect on the eye: Not an irritant.

Irritant effect on the skin: Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Sensitising effects

Evaluation: no danger of sensitization.



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STOT-single exposure

Vapours may cause drowsiness and dizziness.

Severe effects after repeated or prolonged exposure

Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

Further information

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

SECTION 12: Ecological information

12.1. Toxicity

No data available

Mixture not tested.

CAS No	Chemical name							
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source		
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether							
	Acute fish toxicity	LC50	1490 mg/l	96 h	Lepomis macrochirus			

12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	0,81 (25°C)

12.4. Mobility in soil

Product is easily volatile. Product is difficult to dissolve in water.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not open container by force. Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing dangerous substances Classified as hazardous waste.

Contaminated packaging

Dispose of waste according to applicable legislation.



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SECTION 14: Transport information

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code: Special Provisions: Limited quantity: Transport category: Tunnel restriction code:	5F 190 327 344 625 1 L 2 D
Other applicable information (land transp Quantities released: E0 Special provisions: 190 - 327 - Transportation category: 2 Tunnel restriction code: B1D	
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-
Hazard label:	2.1
Classification code:	5F
Special Provisions: Limited quantity:	190 327 344 625 1 L
Other applicable information (inland wate Quantities released: E0 Special provisions: 190 327 62	
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2.1
14.4. Packing group:	-
Hazard label:	2.1
Special Provisions:	63, 190, 277, 327, 344, 959
evicion No: 1.25	



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THE ART OF OIL-SINCE 1936		
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Limited quantity: EmS:	See SP277 F-D, S-U	
Other applicable information (marine t Quantities released: E0 Special provisions: 63, 190		
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN 1950	
14.2. UN proper shipping name:	AEROSOLS, flammable	
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	
Hazard label:	2.1	
Special Provisions: Limited quantity Passenger:	A145 A167 A802 30 kg G	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	203 75 kg 203 150 kg	
Other applicable information (air trans Passenger LQ: Y203 Quantities released: E0 Danger: Y203 Special provisions: A145 - /		
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
14.6. Special precautions for user Warning: Flammable gases		
14.7. Transport in bulk according to Anne not applicable	x II of MARPOL73/78 and the IBC Code	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mix	ture
EU regulatory information		
2004/42/EC (VOC):	84,6 % (579,51 g/l)	
National regulatory information		
Employment restrictions: Water contaminating class (D):	Observe employment restrictions for young people. 1 - slightly water contaminating	
15.2. Chemical safety assessment		
Chemical safety assessme	nts for substances in this mixture were not carried out.	
SECTION 16: Other information		
Relevant R-phrases (Number and full t 12 Extremely flammable	-	



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65	Harmful: may cause lung damage if swallowed.	
66	Repeated exposure may cause skin dryness or cracking.	
Relevant H- and E	UH-phrases (Number and full text)	
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
EUH066	Repeated exposure may cause skin dryness or cracking.	
Further Information	n	
This p	reparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].	

These given data only refer to the named product. If the product is used together with other materials or in manufacturing processes the data might not be applicable any more. The data are based on today's state of our knowledge and experience. They are, however, no guarantee of any specific product properties and do not established any legally valid contructual relationship.

The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)