

# EC-Safety Data Sheet conforming to 1907/2006/EG, Article 31

## Cleaner AC Spray

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

1.1 Product identifier	Cleaner AC Spray
1.2 Relevant identified uses of the substance or mixture and uses advised against	Acetonspray - Only suitable for industrial use. Not suitable for commercial or private use.
1.3 Details of the supplier of the safety data sheet	MOLYDUVAL GmbH * Halskestr.6 * 40880 Ratingen * Germany * +49 (2102) 9757-00 * safety@molyduval.com
1.4 Emergency telephone number	+49 (2102) 9757-20 (24h)

### SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture 1272/2008/EG	hazard statements / category of danger / Hazard class H222 / Aerosol 1 / Extremely flammable aerosol. H229 / Aerosol 1 / Pressurized container: May burst when heated. H319 / Eye Irrit. 2 / Causes serious eye irritation. H336 / STOT SE 3 / May cause drowsiness and dizziness. Hazard categories: Aerosols: Aerosol 1, corrosion / irritation: Skin Irrit. 2 Serious eye damage / eye irritation: Eye Irrit. 2, Specific target organ toxicity (single exposure): STOT SE. 3, to the aquatic environment: Aquatic. chron. 2 Hazard statements: Extremely entzündbaresAerosol. Pressurized container: May burst when heated. Causes skin irritation. Causes serious eye irritation. May cause drowsiness and dizziness. Toxic to aquatic life with long lasting effects.
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2.2 label elements



signal word: Danger  
GHS02 Extremely flammable  
GHS07 Irritation  
H222 Extremely flammable aerosol.  
H229 Pressurized container: May burst when heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness and dizziness.  
P102 Keep out of reach of children.  
P210 Keep away from heat, sparks, open flames, hot surfaces and other sources of ignition. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P261A Avoid inhalation of aerosol.  
P271 Use only outdoors or in well-ventilated areas.  
P280 Wear protective gloves, clothing, eye and face protection.  
P305+P351+P338 For a few minutes, rinse cautiously with water: In case of contact with eyes. Remove contact lenses if possible. Continue rinsing.  
P403+P233 Storage: Keep container tightly closed in a well-ventilated place.  
P410+P412 Protect from sunlight and do not expose to temperatures exceeding 50°C.  
P501 Dispose of contents and container in accordance with local regulations of the disposal.

2.3 Other hazards In case of insufficient ventilation and / or through use, explosive / highly flammable mixtures.

### SECTION 3: Composition - Information on Ingredients

3.2 Mixtures	Mixture of substances listed below with nonhazardous additions. ----- 75,0 % - 100,0 % Acetone; 2-propanone; propanone EG: 200-662-2 CAS: 67-64-1 Reach: 01-2119471330-49 H225 Flam. Liq. 2 / H319 Eye Irrit. 2 / H336 STOT SE 3 (MOCLAC) ----- 10,0 % - 25,0 % Butane EG: 203-448-7 CAS: 106-97-8 H220 Flam. Gas 1 / H280 (MOCLGASB) ----- 10,0 % - 25,0 % Propane EG: 200-827-9 CAS: 74-98-6 H220 Flam. Gas 1 / H280 (MOCLGASP)
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3.3 Additional information Substances listed on ECHA's Candidate List of Substances of Very High Concern (SVHC) are not intentional components of this product. It is therefore unlikely that those substances are contained in the product in quantities > 0.1%.

### SECTION 4: First Aid Measures

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General Instructions	Remove victim from danger zone, without exposing yourself to any personal risk. Remove wetted clothing and shoes and clean items before using them again.
After Inhalation	Remove exposed person to fresh air.
After Skin Contact	Wash with plenty of soap and plenty of water. Consult a doctor if skin irritation persists.
After Eye Contact	Long lasting rinse Rinse opened with water, if necessary, use eye wash. If symptoms persist, seek medical advice.
After Ingestion	Rinse mouth and drink plenty of water. Do not induce vomiting. If symptoms persist, seek medical advice.
Most important symptoms and effects, both acute and delayed	Difficulty breathing, headache, dizziness, nausea, dry skin.
Indication of any immediate medical attention and special treatment needed	Prolonged and/or repeated exposure may cause skin discomfort and inflammation (dermatitis). In case of swallowing followed by vomiting, material may be aspirated into the lungs - possibly leading to pulmonary edema (wetlung).

### SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media	Suitable extinguishing media : Water spray. Foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ). Unsuitable extinguishing media : Strong water jet.
5.2 Special hazards arising from the substance or mixture	In case of a fire, there may arise poisonous (CO, CO <sub>2</sub> and other organic gases) gases. Run-off does not allow to enter drains or watercourses by firefighters.
5.3 Advice for firefighters	If necessary, use in case of fire, self contained breathing apparatus. Collect contaminated firefighting water separately, must not be discharged into drains. Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations. Extinguishing measures to the surroundings. Standard procedure for chemical fires. Extinguishing measures to the surroundings.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Remove sources of ignition. Avoid skin contact.
6.2 Special Environmental Protection	Avoid entering into drains, water courses or soil. Fire or police agree, if the product has escaped into a water course or sewage system, or has contaminated the soil and plants.
6.3 Methods and material for containment and cleaning up	Use oil sucking materials f.e chemical absorbents.
6.4 Reference to other sections	n.a.

### SECTION 7: Handling and Storage

7.1 Precautions for safe handling	Container under pressure. Do not expose to temperatures exceeding 50°C (f.e. sunlight). Do not open violently.
7.2 Conditions for safe storage, including any incompatibilities	Storage according to TRG 300. To be stocked cool and dry, protect from sunlight and do not expose to temperatures exceeding 50 degree C. Smoking prohibited. Storage Class VCI: 2 B

### SECTION 8: Limiting and supervising the exposure / personal protection

8.1 Control parameters	Acetone; 2-propanone; propanone EG: 200-662-2 CAS: 67-64-1 Reach: 01-2119471330-49: Deutschland: BGW Langzeit: Aceton (Urin; Expositionsende bzw. Schichtende) 80 ppm Europa, IOELV: TWA 1210 mg/m <sup>3</sup> ; 500 ppm Deutschland, AGW 1200 mg/m <sup>3</sup> ; 500 ppm Spitzenbegrenzung 2 (I) (entspricht 2400 mg/m <sup>3</sup> ; 1000 ppm) DNEL: DNEL Langzeit, Arbeiter, dermal: 186 mg/kg bw/d. DNEL Kurzzeit, Arbeiter, inhalativ: 2420 mg/m <sup>3</sup> DNEL Langzeit, Arbeiter, inhalativ: 1210 mg/m <sup>3</sup> DNEL Langzeit, Verbraucher, oral: 62 mg/kg bw/d. DNEL Langzeit, Verbraucher, dermal: 62 mg/kg bw/d. DNEL Langzeit, Verbraucher, inhalativ: 200 mg/m <sup>3</sup> PNEC PNEC Wasser (Süßwasser): 10,6 mg/l. PNEC Wasser (Meerwasser): 1,06 mg/l. PNEC Wasser (periodische Freisetzung): 21 mg/l. PNEC Sediment (Süßwasser): 30,4 mg/kg dwt. PNEC Sediment (Meerwasser): 3,04 mg/kg dwt. PNEC Boden: 0,112 mg/kg dwt. PNEC Kläranlage: 29,5 mg/l ----- Butane EG: 203-448-7 CAS: 106-97-8: n-Butan (<0,01% Butadien -1,3) 1,928 mg/m <sup>3</sup> , Cat. 4, MAK AGW: 2400 mg/m <sup>3</sup> , 1000 ml/m <sup>3</sup> , 4(II);DFG
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Propane EG: 200-827-9 CAS: 74-98-6:  
Propan 1,800 mg/m<sup>3</sup>, Cat. 4, MAK

8.2 Limitation and supervision of exposure - Personal Protective Equipment  
Respiratory protection: Not required, except in case of aerosol formation. Avoid inhalation of vapors. Use respiratory protective device against the effects of fumes / dust / aerosol. Combination filter, eg. As DIN 3181 ABEK  
Hand protection: Gloves - oil resistant. Glove material: nitrile rubber, butyl rubber or fluoro rubber. Recommended thickness: = 0,4 mm. Penetration time of glove material Value for the permeation: Level = 480 min. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of breakthrough time is recommended.  
Eye protection: Safety glasses  
Hygiene measures: Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Take off all contaminated clothing immediately.  
Protective measures: Handle in accordance with good industrial hygiene and safety practice.  
Body protection: work clothes

8.3 Delimitation and monitoring of environmental exposure  
Do not discharge into surface water or drains

### SECTION 9: Physical and Chemical Properties

Appearance Form	aerosol
Color	transparent
Appearance	like oil
Odour	typical
Boiling Point / Boiling Range	-
Melting Point / Melting Range	-
Flash Point	Not applicable
Autogenous Ignition Temperature	-
Upper Explosion Limit	-
Lower Explosion Limit	-
Vapor Density	-
Specific Gravity, 20°C	0,79 g/cm <sup>3</sup>
Water Solubility	No
Partition Coefficient n-oct/water	-
VOC-Content	-

### SECTION 10: Stability and Reactivity

10.1 Reactivity	Danger of explosion in case of overheating
10.2 Chemical Stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Fumes can combine with air to form an explosive mixture.
10.4 Conditions to be avoided	No information available
10.5 Incompatible Materials	no information available
10.6 Hazardous products of instability / decomposition	no

### SECTION 11: Toxicological Information

Toxicological Information	Acetone; 2-propanone; propanone EG: 200-662-2 CAS: 67-64-1 Reach: 01-2119471330-49: Akute orale Toxizität: LD50 Ratte, oral: Dosis: 5800 mg/kg; Methode: OECD 401 LD50 Ratte, dermal: Dosis: >15800 mg/kg LC50 Ratte, inhalativ: Dosis: 5800 mg/kg Nach Einatmen: Dämpfe können Schläfrigkeit und Benommenheit verursachen. Zur Entwicklung offensichtlich toxikologisch relevanter Symptome beim Menschen sind unfallbedingt extrem große Mengen von Dämpfen durch Inhalation oder von Flüssigkeit durch Verschlucken aufzunehmen (z.B. einige Tausend ppm Acetondämpfe). Nach Verschlucken: Störungen im Magen - Darmbereich. Nach Hautkontakt: Reizend. Wiederholte Exposition kann auf Grund der entfettenden Eigenschaften zu Trockenheit der Haut und Rissen führen. Es gibt keine Anzeichen einer sensibilisierenden Wirk
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ung bei Menschen.  
Nach Augenkontakt: Reizend.  
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Butane EG: 203-448-7 CAS: 106-97-8:  
Butan inhalativ (4 h) Dampf LC50 658 mg/l Ratte

Symptoms after ingestion	Provoking the mucous membranes with high concentrations. Deafen effect, response time and sense of co-ordination can be impaired.
At Skin Contact	Irritation.
Symptoms after Inhalation	no data available
Symptoms after eye contact	Provoking the mucous membranes with high concentrations.
Other information	No sensitizing effects known.
Toxicological Tests	There are no human toxicological data.
Further Toxicologic Effects	The product is classified acc to 1272/2008 [CLP]

### SECTION 12: Ecological Information

12.1 Toxicity	Acetone; 2-propanone; propanone EG: 200-662-2 CAS: 67-64-1 Reach: 01-2119471330-49: Fischtoxizität: - Süßwasserarten: 96h LC50 (Oncorhynchus mykiss (Regenbogenforelle)): 5540 mg/l - marine Spezies: 96h LC50 (Alburnus alburnus (Ukelei)): 11000 mg/l Toxizität bei wirbellosen Arten: - Süßwasserarten: 48h EC50 (Daphnia pulex (Wasserfloh)): 8800 mg/l - marine Spezies: 24h EC50 (Artemisia salina): 2100 mg/l Algentoxizität: - Süßwasserarten: 8h NOEC (Microcystis aeruginosa): 530 mg/l/8 d. - marine Spezies: 96h NOEC (Prorocentrum minimum): 430 mg/l Bakterientoxizität: EC 12: (30 min; Belebtschlamm; OECD 209): 1000 mg/l Langzeit-Toxizität bei wirbellosen Organismen: 28-Tage NOEC (Daphnia pulex (Wasserfloh); Fortpflanzung): 2212 mg/l
12.2 Persistence and degradability	Product is WGK 1.
12.3 Bioaccumulative potential	not information available
12.4 Mobility in soil	No information available
12.5 Results of PBT and vPvB assessment	No information available
12.6 Other adverse effects	No information available

### SECTION 13: Disposal Considerations

13.1 Waste treatment methods	Waste key for uncleaned packing: 150110 PACKING WASTE, ABSORPTION MASSES, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING (A. n. g.); Packing (separated including collect locally Packing wastes); Packing, which is polluted by dangerous materials arrears of dangerous materials contained or ss dangerous waste classified.
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### SECTION 14: Transport information in accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 UN-No	1950
14.2 UN proper shipping name	CLASS 2 CODE 5F CODE: 1950 AEROSOLS FLAMMABLE, LIMITED QUANTITIES (LQ2)
14.3 Transport hazard class	Class 2 Gas
14.4 Packing group	n.a.
14.5 Environmental hazards	n.a.
14.6 Special precautions for user	No information available
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

### SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture	DE: water polluting category: 2 DE: Employment restrictions concerning juveniles must be observed (§ 22 JArbSchG). WGK 1 siehe Punkt 8.1
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15.2 Chemical safety assessment

Labelling according to EU-guidelines 1999/45 EG

## SECTION 16: Further Information

16.1 Full text of the dangers in section 2 and 3

GHS02 Extremely flammable  
GHS07 Irritation  
H222 Extremely flammable aerosol.  
H229 Pressurized container: May burst when heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness and dizziness.  
P102 Keep out of reach of children.  
P210 Keep away from heat, sparks, open flames, hot surfaces and other sources of ignition. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P261A Avoid inhalation of aerosol.  
P271 Use only outdoors or in well-ventilated areas.  
P280 Wear protective gloves, clothing, eye and face protection.  
P305+P351+P338 For a few minutes, rinse cautiously with water: In case of contact with eyes. Remove contact lenses if possible. Continue rinsing.  
P403+P233 Storage: Keep container tightly closed in a well-ventilated place.  
P410+P412 Protect from sunlight and do not expose to temperatures exceeding 50°C.  
P501 Dispose of contents and container in accordance with local regulations of the disposal.

16.2 Further Information

The information in this SDS is correct to the best of our knowledge at the time of its publication. The information is intended to give you advice about the safe handling of the product named in this safety during storage, processing, transport and disposal. The details are not transferable to other products. The information given in this safety combination with any other materials or in any process, or undergoes processing, can use the information in this SDS, to the extent that it does not specifically indicate otherwise, are not transferred to the new made material. The material data referred to in item 9 are safety information, but no guarantees on properties. Warranties are excluded without clarification of the technical intended use and the operating conditions. If you have further questions we are available.