

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

Aladin GG Spray

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

1.1 Product identifier	Aladin GG Spray
1.2 Relevant identified uses of the substance or mixture and uses advised against	bonded lubricating film
1.3 Details of the supplier of the safety data sheet	MOLYDUVAL GmbH * Halskestr.6 * 40880 Ratingen * Germany * +49(21002)9757-00 * safety@molyduval.com

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. H318 / Eye Dam. 1 / Risk of serious damage to eyes. H336 / STOT SE 3 / May cause drowsiness or dizziness Hazard categories: Aerosols: Aerosol 1 Hazard statements: Extremely entzündbares Aerosol. Pressurized container: May burst when heated.
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2.2 label elements



signal word: Danger
GHS02 High-inflammatory
GHS05 Corrosive
GHS07 Harmful
H222 Extremely flammable aerosol.

H229 Pressurized container: May burst when heated.
H318 Risk of serious damage to eyes.
H336 May cause drowsiness or dizziness
P102 Keep out of reach of children
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P261A Avoid inhalation of aerosol.
P102 Keep out of reach of children
P210 Keep away from heat/sparks/open flames/hot surfaces. - 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.
P305+P351+P338 Response: For a few minutes, rinse cautiously with water: In case of contact with eyes. Remove contact lenses if possible. Continue rinsing.

2.3 Other hazards

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

SECTION 3: Composition - Information on Ingredients

3.1 Mixtures	Gefährliche Inhaltsstoffe Gefahrenklasse/ Einstufung CAS-Nr.: EG-Nr. INDEX-Nr.: REACH-Nr. Bezeichnung Menge % Gefahrenkategorie Gefahrenhinweise (67/548/EWG) 74-98-6 200-827-9 601-003-00-5 01-2119486944-21 Propan 5-10 Flam.Gas, 1; Press.Gas H220, H280 F+, R12 106-97-8 203-448-7 601-004-00-0 01-2119474691-32 Butan 15-25 Flam.Gas, 1; Press.Gas H220, H280 F+, R12 115-10-6 204-065-8 603-019-00-8 01-2119472128-37 Dimethylether 15-25 Flam.Gas, 1; Press.Gas H220, H280 F+, R12 141-78-6 205-500-4 607-022-00-5 01-2119475103-46 Ethylacetat 20-30 Flam. Liq. 2 H225 F, R11 Eye irrit. 2 H319 Xi, R36 STOT SE 3 H336 R67 EUH066 R66 71-36-3 200-751-6 603-004-00-6 01-2119484630-38 Butan-1-ol; 5-10 Flam. Liq. 3 H226 R10 n-Butanol Acute Tox. 4 H302 Xn, R22 Skin irrit. 2 H315 Xi, R38 Eye dam. 1 H318 Xi, R41 STOT SE 3 H335 Xi, R37 STOT SE 3 H336 R67
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SECTION 4: First Aid Measures

4.1 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.
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4.2 After Inhalation	Remove exposed person to fresh air.
4.3 After Skin Contact	Wash with soap and much water.
4.4 After Eye Contact	Flush eyes with copious amounts of water for 15 minutes holding lid away from eye.
4.5 After Ingestion	Do not induce vomiting. Seek medical advise
4.6 Most important symptoms and effects, both acute and delayed	Product may cause headache, dizziness, nausea, loss of consciousness and dry skin. Disorders of the central nervous system are possible as well. Also see item 11.
4.7 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 ₂). 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 ₂ and other organic gases) gases
5.3 Advice for firefighters	Overheated cans may burst and will be slinged away.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Use oil-proofed clothing
6.2 Special Environmental Protection	Do not expose to environment or in effluent water.
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	Arbeitsplatzgrenzwerte CAS-Nr.: Bezeichnung % Art Wert Einheit 74-98-6 Propan 5-10 MAK 1000 ml/m ³ (ppm) AGW(Deutschland) 1800 mg/m ³ 4(l);DFG 106-97-8 Butan 15-25 MAK 1000 ml/m ³ (ppm) AGW(Deutschland) 2400 mg/m ³ 4(l);DFG 115-110-6 Dimethylether 15-25 MAK 1000 ml/m ³ (ppm) AGW(Deutschland) 1910 mg/m ³ 8(l);DFG 141-78-6 Ethylacetat 20-30 MAK 400 ml/m ³ (ppm) AGW(Deutschland) 1500 mg/m ³ 2(l) 71-36-3 Butan-1-ol 5-10 MAK 100 ml/m ³ AGW(Deutschland) 310 mg/m ³ 1(l)
8.2 Limitation and supervision of exposure - Personal Protective Equipment	Respiratory Protection: None required; except in case of aerosol formation. Avoid inhalation of vapors. Use breathing apparatus if exposed to vapors / dust / aerosol. Combination filter, eg DIN 3181 ABEK Hand protection: Chemical-resistant protective gloves according to DIN / EN 374 is recommended. Only suitable for short-term exposure. If contamination is that the gloves should be changed immediately. Skin contact with the wetted surfaces of the gloves should be avoided. Eye protection: Safety glasses Hygiene measures: Wash hands before breaks and immediately after handling the product. Store work clothes separately. Take off all contaminated clothing immediately. Protective measures: Handle in accordance with good industrial hygiene and safety practice.
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	black
Appearance	aerosol
Odour	like petrol
Upper Explosion Limit	-
Lower Explosion Limit	-
Specific Gravity, 20°C	1,00 g/cm ³
Water Solubility	N

SECTION 10: Stability und Reactivity

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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
10.5 Incompatible Materials	No
10.6 Hazardous products of instability / decomposition	no

SECTION 11: Toxicological Information

Toxicological Information	Akute Toxizität: Einstufungsrelevante LD/LC 50 Werte Komponente Art Wert Spezies Propan inhalativ (LC50/4h) >20 mg/l rat Butan inhalativ (LC50/4h) 658mg/l rat Dimethylether inhalativ (LC50/4h) 16,4 Vol.-% rat Ethylacetat oral/LD50 >5620 mg/kg rat dermal/LD50 >18000 mg/kg rabbit Butan-1-ol oral/LD50 2292 mg/kg rat dermal/LD50 3430 mg/kg rabbit inhalativ (LC50/4h) >17,76 mg/l rat
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	Reizung der Schleimhäute bei hohen Konzentrationen.
Symptoms after Inhalation	no data available
Symptoms after eye contact	Irritation.
Toxicological Tests	There are no human toxicological data.
Toxicologic Effects	Produkt enthält 5-10% n-Butanol. n-Butanol reizt die Haut und wird über die Haut aufgenommen. Bei Augenkontakt verursacht sie schwere Augenentzündungen. Dämpfe reizen die Augen, Schleimhäute und zeigen eine narkotische Wirkung. Bei chronischer Einwirkung treten zentralnervöse Schädigungen und Hautkrankheiten auf. Symptome: Nach Einatmen: Hustenreiz, Brennen der Schleimhäute, Kopfschmerzen, Schläfrigkeit, Unbehagen, Schwindel, Bewusstlosigkeit, Atemnot. Nach Augenkontakt: Auffällige Rötung, Schmerz, Tränenfluss, verschwommenes Sehen, nach Kontakt mit der Flüssigkeit kann es zur Schädigung der Hornhaut kommen. Nach Hautkontakt: Rötung, Brennen, Hautentfettung. Nach Verschlucken: Schwächegefühl, Schmerzen im Bauch, Brechreiz, Erbrechen, Durchfall. Akute Toxizität von n-Butanol LD50 oral – Ratte 790 mg.kg-1, LD50 dermal – Kaninchen 3400 mg.kg-1, LC50 inhalativ – Ratte 8000 ppm/4 Stunden Akute Reizwirkung von n-Butanol: Haut: Kaninchen: 20 mg/24 Stunden – MOD (mässige Wirkung), Auge: Kaninchen: 2 mg/24 Stunden SEV (starke Wirkung) Produkt enthält 10-20% Molybdändisulfid: Akute Toxizität: LD50 oral, Ratte: > 2000 mg/kg, LD50 dermal, Ratte: > 2000 mg/kg Bei Inhalation von 2,82 mg/m ³ (max. herstellbare Konzentration) traten keine Todesfälle auf. Reiz-/Ätzwirkung: Reizung der Augen/Kaninchen: sehr leichte Bindehautreizung, Reizung der Haut/Kaninchen: nicht reizend Sensibilisierung: Das Produkt wirkt am Meerschweinchen nicht sensibilisierend (OECD 406; GPMT nach MAGNUSSON-KLIGMAN). Erbgutverändernde Wirkung: Salmonella/Mikrosomen-Test (Ames-Test): Keine Hinweise auf eine mutagene Wirkung.

SECTION 12: Ecological Information

12.2 Persistence and degradability	Ecotoxicological data have not been determined specifically for this product. The information provided is based on the knowledge of the components. Product is not readily biodegradable. The main constituents are expected to be inherently biodegradable, but some components that may persist in the environment.
12.3 Bioaccumulative potential	n.a.
12.4 Mobility in soil	n.a.
12.5 Results of PBT and vPvB assessment	n.a.
12.6 Other adverse effects	n.a.

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

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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	-
14.5 Environmental hazards	n.a.
14.6 Special precautions for user	n.a.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	n.a.

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

Extremely Flammable (F+)

national regulations
water polluting category: 2

15.2 Chemical safety assessment

Solvent with lowest MAK Value: 11-Butanol 100ppm

SECTION 16: Further Information

16.1 Full text of R-phrases referred to under sections 2 and 3

GHS02 High-inflammatory
GHS05 Corrosive
GHS07 Harmful
H222 Extremely flammable aerosol.

H229 Pressurized container: May burst when heated.

H318 Risk of serious damage to eyes.

H336 May cause drowsiness or dizziness

P102 Keep out of reach of children

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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P261A Avoid inhalation of aerosol.

P305+P351+P338 Response: For a few minutes, rinse cautiously with water: In case of contact with eyes. Remove contact lenses if possible. Continue rinsing.

16.2 Further Information

Although the information on this safety sheet is based on the by us known and reliable considered information, we can neither accept any responsibility for the use of it. Please contact us if more info is needed.