

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

Cleaner EL

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

1.1 Product identifier	Cleaner EL
1.2 Relevant identified uses of the substance or mixture and uses advised against	Cleaner
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	This material is considered to be non-hazardous (is not to be marked).
2.2 label elements	
2.3 Other hazards	-

SECTION 3: Composition - Information on Ingredients

3.2 Mixtures	Mixture. There are no ingredients which, according to the current state of knowledge of the supplier, are classified as hazardous to health or the environment, are PBT or vPvB substances or have a workplace limit value and therefore should be indicated in this section.
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SECTION 4: First Aid Measures

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	No information available
Indication of any immediate medical attention and special treatment needed	Symptomatic treatment.

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing media	Material does not burn. Use fire extinguishers suitable for extinguishing the ambient fire.
5.2 Special hazards arising from the substance or mixture	If the product is exposed to high heat, decomposition may occur. The following substances may be produced: carbon monoxide (during combustion), carbon dioxide (during combustion), hydrogen fluoride (MAK value: 3 ml / m3, 2 mg / m3, MAK and BAT list 1997, DFG, , Perfluoroisobutylene (PFIB, at high heat)
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	Wear personal protective equipment. Avoid contact with eyes and skin.
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	For commercial use only. The contents can be pressurized, therefore open carefully. Smoking during use of this product may lead to contamination of the product with tobacco and / or smoke, resulting in the formation of hazardous decomposition products, see section "Hazardous decomposition products". Continuous exposure above 150 ° C results in very easy decomposition of this product.
7.2 Conditions for safe storage, including any incompatibilities	Keep container in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke. Keep container tightly closed. Storage Class VCI: 12 Non-flammable liquids

SECTION 8: Limiting and supervising the exposure / personal protection

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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	liquid
Color	transparent
Appearance	like gasoil
Odour	typical
Boiling Point / Boiling Range	61 °C
Upper Explosion Limit	-
Lower Explosion Limit	-
Vapor Density	269,3 hPa
Specific Gravity, 20°C	1,52 g/cm ³
Water Solubility	N
Viscosity, 40°C	-

SECTION 10: Stability and Reactivity

10.1 Reactivity	May react with strong acids or strong bases or strongly oxidizing chemicals. The following dangerous decomposition products may be produced: hydrogen fluoride (MAK value: 3 ml / m ³ , 2 mg / m ³ , MAK and BAT list of values 1997, DFG), perfluoroisobutylene (PFIB).
10.2 Chemical Stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No dangerous reactions known under normal conditions.
10.4 Conditions to be avoided	No information available
10.5 Incompatible Materials	Strong Bases
10.6 Hazardous products of instability / decomposition	Toxic decomposition products can be produced at elevated temperatures, eg hydrogen fluoride (MAK value: 3 ml / m ³ , 2 mg / m ³ , MAK and BAT list of values 1997, DFG), perfluoroisobutylene (PFIB)

SECTION 11: Toxicological Information

Symptoms after ingestion	No known effects
At Skin Contact	No hazard.
Symptoms after Inhalation	Vapors from heated material can irritate the breathing system
Symptoms after eye contact	Vapors from heated material can cause eye irritation
Other information	No sensitizing effects known.
Toxicological Tests	There are no human toxicological data.
Further Toxicologic Effects	Not classified as toxic. Not classified as caustic or irritant for skin. Not classified as caustic or irritant for eyes. The inhalation of thermal decomposition products, in the form of vapor, mist or fumes may be harmful. Not classified as a skin sensitizer. Not as CMR classified (carcinogen, mutagen or reproductive toxic). Not as a target organ toxic classified.

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	not information available
12.4 Mobility in soil	No information available
12.5 Results of PBT and vPvB assessment	No information available

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12.6 Other adverse effects No information available

SECTION 13: Disposal Considerations

13.1 Waste treatment methods Disposal (recovery or disposal) in accordance with local and national legal requirements. Proper disposal may require the use of additional fuel. The combustion products contain hydrogen halides (hydrogen chloride / hydrogen fluoride / hydrogen bromide). Purified packaging can be recycled. Non-cleaned, completely emptied packagings of hazardous substances must be disposed of as hazardous waste. Dispose of in accordance with local and national regulations. Dispose of possible disposal routes with the competent authority. According to European regulation (2000/532 / EC), the allocation of waste numbers is to be carried out by the waste producer in line with the sector and process. The waste codes given are therefore only recommendations for the disposal of the unprocessed product.
070103 Halogenated organic solvents, washing liquids and mother liquors
140602 Other halogenated solvents and solvent mixtures

SECTION 14: Transport information in accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1 UN-No Not classified as dangerous in the meaning of transport regulations
14.2 UN proper shipping name No
14.3 Transport hazard class No transport regulations.
14.4 Packing group -
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: 1
No Precautionary Labels.

15.2 Chemical safety assessment There is no information available

SECTION 16: Further Information

16.1 Full text of the dangers in section 2 and 3 -

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.