

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


Nora UA 2 SP 12

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

1.1 Product identifier	Nora UA 2 SP 12
1.2 Relevant identified uses of the substance or mixture and uses advised against	lubricating grease - 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 H302 / Acute Tox. 4 / Injurious to health when swallowing H314 / Causes severe skin burns and eye damage Fehler
2.2 label elements	signal word: Warning GHS05 Corrosive H302 Injurious to health when swallowing P102 Keep out of reach of children. 
2.3 Other hazards	Contains potassium hydroxide solution and labeling-free lubricating grease. After activating the lubricator, it is under pressure and may only be unscrewed from the lubrication point after the lubrication process has been completed. The lubricator is a product that does not have to be labeled in accordance with EU directives. However, since the risk of damage when the corrosive liquid escapes is not negligible, the product is labeled on a voluntary basis.

## SECTION 3: Composition - Information on Ingredients

3.2 Mixtures	Description and chemical characterization: The lubricator is used to dispense a lubricant evenly. 120 ml of lubricant can be dispensed in one time unit. Lubricants for which separate safety data sheets are available can be used. There is no contact with the lubricant when used as intended. A little lubricant can be released after unscrewing. The lubricant is released through the oxidation of zinc in potassium hydroxide in the lubricator, which produces hydrogen, which is pressurized to max. 8 bar, a piston pushes the lubricant out of the reservoir. Ingredients in the delivery condition without taking into account the lubricant used: <36g 30% potassium hydroxide solution CAS 1310-58-3 EC no. 215-181-3. Ingredients after the end of the lubrication process: <18g 30% potassium hydroxide solution CAS 1310-58-3 EC no. 215-181-3, <14mg hydrogen CAS 1333-74-0 EC no. 215-605-7, <0.7g zinc hydroxide CAS 20427-58-1 EC no. 243-814-3
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

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	Remove contaminated clothing immediately. Clean urgently with water and soap in case of skin contact. Contact Medicibe in case of irritations.
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	The local injury process is very fast, the pain sensation may possibly begin only delayed. Eye: injury especially of the conjunctiva, cornea, sclera (edema, ulceration / perforation, clouding of the cornea), rarely also of retina and choroid-haut. After eye contact intensive rinsing over min. 15 min (in blepharospasm few drops of 2% lidocaine apply), provide immediate specialized medical follow safely. Skin: Erythema -> erosion with swelling of the tissue / sulziger surface (colliquation necrosis) -> loss of skin function (Neuner Rule!).
Indication of any immediate medical attention and special treatment needed	Prolonged or repeated exposure may cause skin discomfort.

## SECTION 5: Fire-Fighting Measures

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- 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 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 Advice on safe handling: Do not breathe mixture. Avoid generation of vapors and aerosols. Hygiene measures: Immediately change contaminated clothing. Preventive skin protection. Wash hands and face after work.
- 7.2 Conditions for safe storage, including any incompatibilities Store in closed containers. Open container in well ventilated areas  
Storage Class VCI: 11 Flammable Solids

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

- 8.2 Limitation and supervision of exposure - Personal Protective Equipment Respiratory protection: Only required if the lubricator is damaged and the corrosive liquid it contains is atomized: particle filter P 2 or P 3.  
Hand and skin protection: Required when the lubricator is activated and when the lubricator is damaged if the corrosive liquid escapes: Wear gloves tested according to DIN EN 374. If this is not the case for safety reasons (e.g. work on rotating machines) possible: use protective skin cream. Coordinate the type of skin protection cream with the company doctor.
- 8.3 Delimitation and monitoring of environmental exposure Do not discharge into surface water or drains

## SECTION 9: Physical and Chemical Properties

- Appearance Form pasty
- Color blue
- Appearance not specified
- Odour without
- 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 0,98 - 1,08 g/cm<sup>3</sup>
- Water Solubility No
- Partition Coefficient n-oct/water -
- VOC-Content -

## SECTION 10: Stability and Reactivity

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10.1 Reactivity	This product is stable in normal-use temperatures.
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	<p>Potassium hydroxide Acute toxicity: Acute oral toxicity: LD50 (rat, oral): 273 mg / kg (Merck SDS) After inhalation: burns. After skin contact: burns. Degreasing effect resulting in rough and chapped skin. After eye contact: burns. Risk of corneal opacity. After swallowing: burns (pain, collapse). Sensitization: There are no indications of sensitization. Mutagenicity: There is no evidence of mutagenicity. Reproductive toxicity: There is no evidence of reproductive toxicity. Carcinogenicity: There is no evidence of a carcinogenic potential Repeated exposure toxicity (subacute to chronic toxicity): There is no evidence of subacute or chronic toxicity.</p> <p>Hydrogen: Acute toxicity: Quantitative animal data are not available. After inhalation: Danger of suffocation for high hydrogen concentrations that are not relevant here. After skin contact: No symptoms known. No absorption through the skin. After eye contact: In animal experiments (rabbits): no eye damage (GESTIS). After swallowing: Not applicable. Sensitization: There are no indications of sensitization. Mutagenicity: There is no evidence of mutagenicity. Reproductive toxicity: There is no evidence of reproductive toxicity. Carcinogenicity: There is no evidence of a carcinogenic potential. Toxicity after repeated exposure (subacute to chronic toxicity): No subacute or chronic effects are known (GESTIS).</p> <p>Zinc hydroxide: Acute toxicity: No data from animal experiments are available. After inhalation: Not relevant here, as it is in an aqueous solution. After skin contact: irritations. After eye contact: irritations. After swallowing: The following applies to zinc compounds in general: metallic taste, Nausea, vomiting, diarrhea and fever. Sensitization: There are no indications of sensitization. Mutagenicity: There is no evidence of mutagenicity. Reproductive toxicity: There is no evidence of reproductive toxicity. Carcinogenicity: There is no evidence of a carcinogenic potential. Repeated exposure toxicity (subacute to chronic toxicity): There is no evidence of subacute or chronic toxicity.</p>
Symptoms after ingestion	no data available
At Skin Contact	no data available
Symptoms after Inhalation	no data available
Symptoms after eye contact	no data available
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

12.1 Toxicity	<p>Potassium hydroxide Ecotoxic effects: Harmful effect due to pH shift. Ecotoxic data: Fish toxicity: Gambusia affinis: LC50: 80 mg / l / 24 h (Merck-SDS) Further information: WGK: 1 (slightly hazardous to water) VwVwS Appendix 2, ID no. 345 ----- hydrogen Ecotoxic effects: No information available. Significant ecotoxic effects are not to be expected. Ecotoxic data: There are no ecotoxic data available.</p>
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More information:

WGK: Not relevant.

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Zinc hydroxide

There is no information. The ecotoxic properties should hardly differ from those of zinc or other zinc salts.

12.2 Persistence and degradability	Product is slightly harmful to water (water hazard class 1). Do not allow into drains, the ground water or the soil. Product is insoluble in water and floats on the water surface.
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	The product is subject to the Ordinance on Evidence (see Ordinance on Simplifying Waste Monitoring) as hazardous waste. Waste code: 15 02 02 Name of waste: Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths and protective clothing contaminated with hazardous substances
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## 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	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 No Precautionary Labels.
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15.2 Chemical safety assessment	There is no information available
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## SECTION 16: Further Information

16.1 Full text of the dangers in section 2 and 3	GHS05 Corrosive GHS07 Irritation H302 Injurious to health when swallowing H314 Causes severe skin burns and eye damage P251 Pressurized container: Do not pierce or burn, even after use. P280 Wear protective gloves, clothing, eye and face protection. P501 Dispose of contents and container in accordance with local regulations of the disposal.
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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.
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