



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

- **Product details**
- **Trade name:** DINITROL ANNITROL
- **Application of the substance / the preparation**
Penetrating oil
Surface cleaning
- **Manufacturer/Supplier:**
DINOL GmbH
Pyrmonter Str. 76
D-32676 Lügde
Tel: +49 5281 9829 80
Fax: +49 5281 9829 860
E-mail: thomas.suerig@dinol.com
- **Further information obtainable from:** Research & Development
- **Information in case of emergency:** Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 C; Corrosive
 R34: Causes burns.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been marked in accordance with EU Directives / respective national laws.
- **Code letter and hazard designation of product:**
 C Corrosive
- **Hazard-determining components of labelling:**
Phosphoric acid 25-85%
- **Risk phrases:**
34 Causes burns.
- **Safety phrases:**
 - 20 When using do not eat or drink.
 - 23 Do not breathe fumes/aerosol.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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60 This material and its container must be disposed of as hazardous waste.

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3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 7664-38-2	Phosphoric acid 25-85%	 C R34	25-<50%
EINECS: 231-633-2			

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Remove contaminated clothing. Wash skin with soap and water.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

5 Firefighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** No special measures required.
- **Additional information:** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with skin, eyes and clothes.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

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- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store receptacle in a well ventilated area.
Keep container tightly sealed.
Protect from heat and direct sunlight.
- **Maximum storage temperature:** < 35°C
- **Minimum storage temperature:** > 0°C

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

7664-38-2 Phosphoric acid 25-85% (25-<50%)

WEL Short-term value: 2 mg/m³

Long-term value: 1 mg/m³

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat or drink while working.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

Check the permeability prior to each anewed use of the glove.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber

Nitrile rubber

- **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Not suitable are gloves made of the following materials:** Strong material gloves
- **Eye protection:**



Tightly sealed goggles

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· **Body protection:** Acid resistant protective clothing

9 Physical and chemical properties

· General Information

· Appearance:

Form: Liquid
Colour: Light brown
Odour: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100°C

· **Flash point:** > 100°C (DIN 53213)

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure At 20°C:** 27.4 hPa

· **Density At 20°C:** 1.18 g/cm³ (DIN 51757)

· **Solubility in / Miscibility with water:** Fully miscible.

· **pH-value At 20°C:** 1.2
Strongly acidic

· Solvent content:

Organic solvents: 0.0 %
Water: 70.1 %

Solids content: 29.8 % (DIN 53216)

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Materials to be avoided:**

· Dangerous reactions

Reacts with alkali (lyes).
Reacts with certain metals.

· **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· **on the skin:** Caustic effect on skin and mucous membranes.
· **on the eye:** Strong caustic effect.

· **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

· **Information about elimination (persistence and degradability):**

· **Other information:** There is no data available for the product.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 04*	phosphoric and phosphorous acid

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 8 Corrosive substances.

· **Danger code (Kemler):** 80

· **UN-Number:** 1805

· **Packaging group:** III

· **Hazard label** 8

· **Description of goods:** 1805 PHOSPHORIC ACID, SOLUTION

· **Excepted quantities (EQ):** E1

· **Limited quantities (LQ)** LQ7

· **Transport category** 3

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· Tunnel restriction code E

· Maritime transport IMDG:



· **IMDG Class:** 8
 · **UN Number:** 1805
 · **Label** 8
 · **Packaging group:** III
 · **EMS Number:** F-A,S-B
 · **Marine pollutant:** No
 · **Segregation groups** Acids
 · **Proper shipping name:** PHOSPHORIC ACID, SOLUTION

· Air transport ICAO-TI and IATA-DGR:



· **ICAO/IATA Class:** 8
 · **UN/ID Number:** 1805
 · **Label** 8
 · **Packaging group:** III
 · **Proper shipping name:** PHOSPHORIC ACID, SOLUTION

* 15 Regulatory information

· **Chemical safety assessment** A Chemical Safety Assessment has not been carried out.· **National regulations:**· **Technical instructions (air):**

Class	Share in %
Wasser	10-25
I	0.1-1
NK	1-5

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

R34 Causes burns.

· **Department issuing MSDS:** Research & Development· **Contact:** Dr. Thomas Sürig· * **Data compared to the previous version altered.**