

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.05.2013

Version number 2

Revision: 04.12.2012

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

1.1 Product identifier**Trade name:** *3000 • UriColor (Salpetersäure-Reagenz)***MSDS-ID (International):** *200044-6* (not connected)**MSDS Download URL:** *www.msds-id.com/***1.2 Relevant identified uses of the substance or mixture and uses advised against**
*Only use for indicated purposes.***Application of the substance / the preparation:** *Laboratory reagent.***1.3 Details of the supplier of the safety data sheet****Manufacturer:***SDF Michael Fischer**Daimlerstr. 6 • 35447 Reiskirchen • Germany***Further information obtainable from:***Fon: +49 (0)6408-61616 • Fax: +49 (0)6408-5012391 • sdb@sdf-fischer.de •**Internet: www.sdf-fischer.de***1.4 Emergency telephone number:***Fon: +49 (0)6408-61616 • Fax: +49 (0)6408-5012391 • sdb@sdf-fischer.de •**Available during business time (www.sdf-fischer.de > Kontakt).*

2 Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008***GHS03 flame over circle**Ox. Liq. 2 H272 May intensify fire; oxidiser.**GHS05 corrosion**Skin Corr. 1A H314 Causes severe skin burns and eye damage.***2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008***The product is classified and labelled according to the CLP regulation.***Hazard pictograms***GHS03 GHS05***Signal word** *Danger***Hazard-determining components of labelling:***nitric acid***Hazard statements***H272 May intensify fire; oxidiser.**H314 Causes severe skin burns and eye damage.*

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Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.*
- P280 Wear protective gloves/protective clothing/eye protection/face protection.*
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P310 Immediately call a POISON CENTER or doctor/physician.*
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*

Additional information: Void
2.3 Other hazards
Results of PBT and vPvB assessment

- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures

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

Dangerous components:

<i>CAS: 7697-37-2</i>	<i>nitric acid</i>	<i>50-100%</i>
<i>EINECS: 231-714-2</i>	 <i>Ox. Liq. 3, H272;</i>  <i>Skin Corr. 1A, H314</i>	
<i>Index number: 007-004-00-1</i>		

4 First aid measures

4.1 Description of first aid measures

- **General information:** *Immediately remove any clothing soiled by the product.*
- **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *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.*
- **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture *Nitrogen oxides (NO_x)*
5.3 Advice for firefighters

- **Protective equipment:** *No special measures required.*

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Use neutralizing agent.
 Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.*
- **6.4 Reference to other sections**
*See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.*

7 Handling and storage

- **7.1 Precautions for safe handling**
*Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.*
- **Information about fire - and explosion protection:** *No special measures required.*
- **7.2 Conditions for safe storage, including any incompatibilities**
- **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:** *Keep container tightly sealed.*
- **7.3 Specific end use(s)** *No further relevant information available.*

8 Exposure controls/personal protection

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

- **8.1 Control parameters**

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

7697-37-2 nitric acid

IOELV <i>Short-term value: 2,6 mg/m³, 1 ppm</i>
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- **Additional information:** *The lists valid during the making were used as basis.*

- **8.2 Exposure controls**

- **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.*

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374. The recommendations apply only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

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- For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Glove material: *butyle-rubber*Glove thickness: *0.7 mm*Break through time: *> 480 min*

- As protection from splashes gloves made of the following materials are suitable:

Glove material: *Nitrile rubber*Glove thickness: *0.40 mm*Break through time: *> 120 min*

- Eye protection:

*Tightly sealed goggles*

9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: *Fluid*Colour: *Colourless*· Odour: *Pungent*· Odour threshold: *Not determined.*· pH-value at 20 °C: *1*

- Change in condition

Melting point/Melting range: *Undetermined.*Boiling point/Boiling range: *83 °C*· Flash point: *Not applicable.*

- Ignition temperature:

Decomposition temperature: *Not determined.*· Self-igniting: *Product is not selfigniting.*· Danger of explosion: *Not determined.*

- Explosion limits:

Lower: *Not determined.*Upper: *Not determined.*· Vapour pressure at 20 °C: *23 hPa*· Density at 20 °C: *1,27786 g/cm³*· Relative density: *Not determined.*· Vapour density: *Not determined.*· Evaporation rate: *Not determined.*· Solubility in / Miscibility with water: *Fully miscible.*· Partition coefficient (n-octanol/water): *Not determined.*

- Viscosity:

Dynamic: *Not determined.*Kinematic: *Not determined.*

- Solvent content:

Organic solvents: *0,0 %*

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Water:	44,8 %
· 9.2 Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

11 Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** *Strong caustic effect on skin and mucous membranes.*
- **on the eye:** *Strong caustic effect.*
- **Sensitization:** *No sensitizing effects known.*

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **12.2 Persistence and degradability** *No further relevant information available.*
- **12.3 Bioaccumulative potential** *No further relevant information available.*
- **12.4 Mobility in soil** *No further relevant information available.*
- **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.*
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **12.6 Other adverse effects** *No further relevant information available.*

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

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

* 14 Transport information

• 14.1 UN-Number • ADR, IMDG, IATA	<i>2031</i>
• 14.2 UN proper shipping name • ADR • IMDG, IATA	<i>2031 NITRIC ACID, solution</i> <i>NITRIC ACID, solution</i>
• 14.3 Transport hazard class(es) • ADR, IMDG, IATA	
	
• Class • Label	<i>8 Corrosive substances.</i> <i>8</i>
• 14.4 Packing group • ADR, IMDG, IATA	<i>II</i>
• 14.5 Environmental hazards: • Marine pollutant:	<i>No</i>
• 14.6 Special precautions for user • Danger code (Kemler): • EMS Number: • Segregation groups	<i>Warning: Corrosive substances.</i> <i>80</i> <i>F-A,S-B</i> <i>Acids</i>
• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	<i>Not applicable.</i>
• Transport/Additional information:	
• ADR • Limited quantities (LQ) • Transport category • Tunnel restriction code	<i>LQ21</i> <i>2</i> <i>E</i>
• UN "Model Regulation":	<i>UN2031, NITRIC ACID, solution, 8, II</i>

15 Regulatory information

• **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

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**
H272 May intensify fire; oxidiser.
H314 Causes severe skin burns and eye damage.
- **Department issuing MSDS:** *Product safety department*
- **Contact:** *eMail: sdb@sdf-fischer.de*
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

· * **Data compared to the previous version altered.**

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