

## Material Safety Data Sheet According to 91/155 EEC

Printing date 26.01.2006

Reviewed on 26.01.2006



### \* 1 Identification of substance:

- **Product details:** Reagent for water analysis
- **Product name:** Ammonia Salicylate F10 ml
- **Catalogue number:** CW/53.13.80
- **Supplier:**  
Camlab Limited  
Camlab House, Norman Way, Over, Cambridge CB4 5WE  
United Kingdom  
Tel: +44 (0)1954 233100
- **Informing department:** Technical Support
- **Emergency information:**  
National Poisons Information Service, United Kingdom  
Tel: 0870 600 6266 (24 hours) • <http://www.npis.org/>

### \* 2 Composition/Data on components:

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

- **Dangerous components:**

CAS: 54-21-7 EINECS: 200-198-0	sodium salicylate	 Xn; R 22-36	45-50%
CAS: 13755-38-9 EINECS: 238-373-9	sodium nitroprusside dihydrate	 T; R 25	≤ 2.5%

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

### \* 3 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man 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.

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### \* 4 First aid measures

- **General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water.  
Call a doctor immediately.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Induce vomiting.
- **Information for doctor**
- **The following symptoms may occur:**  
after inhalation:  
coughing  
mucous membrane irritation  
after swallowing:  
breathing difficulty  
headache  
dizziness  
fever  
disorientation  
sickness  
vomiting  
gastric pain  
diarrhoea  
drop in blood pressure  
cramps
- **Danger** Danger of system failure.

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### \* 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
Formation of toxic gases is possible during heating or in case of fire.  
Nitrogen oxides (NO<sub>x</sub>)  
cyanide compounds, sodium monoxide
- **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter drains.

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### \* 6 Accidental release measures

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Avoid causing dust.
- **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:**  
Collect mechanically.  
Ensure adequate ventilation.  
Dispose of contaminated material as waste according to item 13.

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### \* 7 Handling and storage

- **Handling**
- **Information for safe handling:** Any deposit of dust which cannot be avoided must be removed regularly.
- **Information about protection against explosions and fires:** Protect from heat.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** store away from solvents
- **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Protect from heat and direct sunlight.
  - Store under dry conditions.
  - Protect from humidity and keep away from water.
  - Protect from the effects of light.

### \* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Keep away from foodstuffs, beverages and food.
  - Take off immediately all contaminated clothing
  - Wash hands during breaks and at the end of the work.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter P2
- **Protection of hands:**
  - Only use chemical-protective gloves with CE-labelling of category III.
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**
  - nitrile
  - Recommended thickness of the material:  $\geq 0.11$  mm
  - 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.
- **Penetration time of glove material**
  - Value for the permeation: Level  $\geq 6$  (480 min)
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

### \* 9 Physical and chemical properties:

· <b>Form:</b>	Powder
· <b>Colour:</b>	Light beige
· <b>Odour:</b>	Odourless
· <b>Melting point/Melting range:</b>	Not determined
· <b>Boiling point/Boiling range:</b>	1461°C
· <b>Flash point:</b>	Not applicable
· <b>Danger of explosion:</b>	Product is not explosive.

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· <b>Density at 20°C</b>	1.247 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Soluble
· <b>pH-value (41.2 g/l) at 20°C:</b>	8.1
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
· <b>Solids content:</b>	100.0 %

### \* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Materials to be avoided:**
  - alkali metals
  - acids
  - oxidizing agents
  - > forms heat
- **Dangerous reactions** Contact with acids releases toxic gases
- **Dangerous products of decomposition:** see chapter 5

### \* 11 Toxicological information

- **Acute toxicity:** Quantitative data on the toxicity of the preparation are not available.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>54-21-7 sodium salicylate</b>		
Oral	LD50	930 mg/kg (rat)
	LDLo	700 mg/kg (human)
<b>6106-24-7 di-sodium tartrate dihydrate</b>		
Oral	LD50	1290 mg/kg (rat)
<b>13755-38-9 sodium nitroprusside dihydrate</b>		
Oral	LD50	99 mg/kg (rat)
	LDLo	20 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**

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

Harmful  
Irritant

The following complies to cyanogen compounds / nitriles in general:  
Utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration.  
The following applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys.

### \* 12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** Quantitative data on the ecological effect of this product are not available.

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<b>· Behaviour in environmental systems:</b>	
<b>54-21-7 sodium salicylate</b>	
log P(o/w)	-1.43 (.)
<b>· Ecotoxicological effects:</b>	
<b>· Aquatic toxicity:</b>	
<b>54-21-7 sodium salicylate</b>	
Daphnia EC50	230 mg/l/24h (Daphnia magna)
LC50	90 mg/l/48h (Leuciscus idus)
<b>13755-38-9 sodium nitroprusside dihydrate</b>	
Daphnia EC50	1.0 mg/l/24h (Daphnia magna)
LC50	0.08 mg/l (fish)
<b>· Remark:</b>	
Toxic for fish:	
CAS 13755-38-9 (Fe): > 0,9 mg/l / pH 6,5-7,5	
MERCCK: the following applies to dissolved iron compounds in general:	
fish: toxic as from 0.9 mg/l at pH 6.5 - 7.5	
lethal as from 1 mg/l at pH 5.5 - 6.7	
<b>· General notes:</b>	
Water hazard class 2 (German Regulation) (Self-assessment acc. VwVwS Annex 4): hazardous for water.	
Do not allow product to reach ground water, water bodies or sewage system.	

### \* 13 Disposal considerations

<b>· Product:</b>	
<b>· Recommendation</b> Must not be disposed of together with household garbage. Do not allow product to reach sewage system.	
<b>· European waste catalogue</b>	
16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
<b>· Uncleaned packagings:</b>	
<b>· Recommendation:</b> Disposal must be made according to official regulations.	
<b>· Recommended cleaning agent:</b> Water, if necessary with cleaning agent.	

### \* 14 Transport information

<b>· Land transport ADR/RID (cross-border)</b>	
<b>· ADR/RID-GGVS/E Class:</b> -	
<b>· Maritime transport IMDG:</b>	
<b>· IMDG Class:</b>	-
<b>· Marine pollutant:</b>	No
<b>· Air transport ICAO-TI and IATA-DGR:</b>	
<b>· ICAO/IATA Class:</b> -	
<b>· Transport/Additional information:</b> Not dangerous according to the above specifications.	

### \* 15 Regulatory information

<b>· Designation according to EC guidelines:</b>	
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)	

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**· Code letter and hazard designation of product:**

Xn Harmful

**· Hazard-determining components of labelling:**

sodium salicylate

**· Risk phrases:**

22 Harmful if swallowed.

36 Irritating to eyes.

**· Safety phrases:**

22 Do not breathe dust.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36 Wear suitable protective clothing.

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

**· National regulations****· Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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**\*16 Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant R-phrases**

22 Harmful if swallowed.

25 Toxic if swallowed.

36 Irritating to eyes.

**· Department issuing data specification sheet: Technical Department****· \* Data compared to the previous version altered.**