# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

**Issue Date** 28-01-2005 **Revision Date** 22-Feb-2023 **Version** 5

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code(s)** LCK304-1

**Product Name** LCK 304 Ammonium, Sample cuvette; 1/2

**Unique Formula Identifier (UFI)** 5PH5-3FQ2-S807-09N7

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Laboratory Reagent. Determination of ammonium nitrogen.

**Uses advised against** Consumer use

### 1.3. Details of the supplier of the safety data sheet

**Supplier**
HACH UK
Laser House
Ground Floor, Suite B
Waterfront Quay, Salford Quays
GB - Manchester, M50 3XW
Tel. +44 (0) 161 872 1487
info-uk@hach.com

HACH Ireland
Unit 34 GB Business Park
Little Island
IRL-Co. Cork
T45 H681
Tel. +353 (0)146 02 522
info-ie@hach.com

### 1.4. Emergency telephone number

UK: Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service
IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

## Section 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

*Regulation (EC) No 1272/2008*

| | |
|---|---|
| **Corrosive to metals** | Category 1 - (H290) |
| **Skin corrosion/irritation** | Category 1 - (H314) |
| **Serious eye damage/eye irritation** | Category 1 - (H318) |
| **Reproductive toxicity** | Category 2 - (H361) |

## 2.2. Label elements

Contains Sodium hydroxide, Sodium salicylate



**Signal word**
Danger

**Hazard statements**
H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage
H361d - Suspected of damaging the unborn child

**Precautionary Statements - EU (§28, 1272/2008)**
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
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

## 2.3. Other hazards

No information available.

PBT & vPvB
This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT)
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

Endocrine Disruptor Information
This product does not contain any known or suspected endocrine disruptors.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | CAS No.<br>EC No.<br>Index No. | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|
| Sodium salicylate | 54-21-7<br>200-198-0<br>- | <10% | Acute Tox. 4 - H302<br>Eye Irrit. 2 - H319<br>Repr. 2 - H361<br>STOT SE 3 - H335 | - | - | - |
| Sodium hydroxide | 1310-73-2<br>215-185-5<br>011-002-00-6 | 1 - 5% | Met. Corr. 1 - H290<br>Skin Corr. 1A - H314<br>Eye Dam. 1 - H318 | Eye Irrit. 2 ::<br>0.5%<=C<2%<br>Skin Corr. 1A ::<br>C>=5%<br>Skin Corr. 1B ::<br>2%<=C<5%<br>Skin Irrit. 2 ::<br>0.5%<=C<2% | - | - |

| Chemical name | REACH registration number |
|---|---|
| Sodium hydroxide | 01-2119457892-27 |
| Sodium salicylate | 01-2119918289-28 |
| Trisodium citrate dihydrate | 01-2119457027-40 |

**Full text of H- and EUH-phrases: see section 16**

*Acute Toxicity Estimate* — *If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components*

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|---|---|---|---|---|
| Sodium salicylate | 930 mg/kg | None reported | None reported | None reported | None reported |

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|---|---|---|---|---|---|
| 54-21-7 | | | | | |

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

**General advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Inhalation**

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention.

**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.

**Ingestion**

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical attention.

**Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms**

Burning sensation.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors** Treat symptomatically.

## Section 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO2). Sodium oxides.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Additional information** Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

**6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Keep out of the reach of children. Store away from other materials.

### 7.3. Specific end use(s)

**Specific use(s)** Analytical reagent.
**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Exposure Limits**

| Chemical name | European Union | United Kingdom | Ireland |
|---|---|---|---|
| Sodium hydroxide<br>1310-73-2 | - | STEL: 2 mg/m$^3$ | STEL: 2 mg/m$^3$ |

**Information on monitoring procedures** Refer to European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) or equivalent national standard(s).

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**Additional information** No information available.

### 8.2. Exposure controls

**Engineering controls** Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Barrier creams may help to protect the exposed areas of skin. Wear suitable gloves. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374-1:2016 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III acco.

| Gloves | | | |
|---|---|---|---|
| Duration of contact | PPE - Glove material | Glove thickness | Break through time |
| Long term (repeated) | Wear protective nitrile rubber gloves | 0,70 mm | >480 minutes |
| Short term | Wear protective nitrile rubber gloves | 0,20 mm | >30 minutes |

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** Ensure adequate ventilation. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**Recommended Filter type:** ABEK-P3.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**Physical state** Liquid

**Colour** light yellow

**Odour** Odourless

**Odour threshold** Not applicable

| Property | Values | Remarks • Method |
|---|---|---|
| **Molecular weight** | No data available | |
| **pH** | 12.6 | @ 20 °C |
| **Melting point/freezing point** | ~ -6 °C / 21.2 °F | |
| **Initial boiling point and boiling range** | ~ 102 °C / 215.6 °F | |
| **Evaporation rate** | 1.1 (water = 1) | |
| **Vapour pressure** | 23.177 mm Hg / 3.09 kPa at 25 °C / 77 °F | |
| **Relative vapor density** | 0.62 | |
| **Partition coefficient** | Not applicable | |
| **Soil Organic Carbon-Water Partition Coefficient** | Not applicable | |
| **Autoignition temperature** | No data available | |
| **Decomposition temperature** | No data available | |
| **Dynamic viscosity** | No data available | |
| **Kinematic viscosity** | No data available | |
| **Relative density** | 1.12 g/mL | @ 20 °C |

**Solubility(ies)**

**Water solubility**

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---|---|---|
| Completely soluble | > 10000 mg/L | 25 °C / 77 °F |

**Solubility in other solvents**

| Chemical Name | Solubility classification | Solubility | Solubility Temperature |
|---|---|---|---|
| Acid | Soluble | > 1000 mg/L | 25 °C / 77 °F |

**Metal Corrosivity**
Classified as corrosive to metal according to CLP criteria

| | |
|---|---|
| **Steel Corrosion Rate** | > 6.25 mm/yr / > 0.25 in/yr |
| **Aluminum Corrosion Rate** | > 6.25 mm/yr / > 0.25 in/yr |

**Explosive properties**

| | |
|---|---|
| **Upper explosion limit** | No data available |
| **Lower explosion limit** | No data available |

**Flammable properties**

| | |
|---|---|
| **Flash point** | No data available 100 |

**Flammability**

| | |
|---|---|
| **Upper flammability limit:** | No data available |
| **Lower flammability limit** | No data available |

**Oxidising properties** No data available.

**Bulk density** No data available

**9.2. Other information**

No information available.

## Section 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

**Reactivity** Corrosive to metal.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerisation** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** Exposure to air or moisture over prolonged periods.

**10.5. Incompatible materials**

**Incompatible materials** Oxidising agent. Acids. Bases.

**10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** Thermal decomposition can lead to release of irritating and toxic gases and vapours.

## Section 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects**

**Acute toxicity**
Based on available data, the classification criteria are not met

*Mixture* No data available.

*Substance* Test data reported below.

**Oral Exposure Route:**

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|---|---|---|---|---|
| Sodium salicylate | Rat $LD_{50}$ | 930 mg/kg | None reported | **Behavioral**<br>Convulsions or effect on seizure threshold<br>Muscle contraction or spasticity | RTECS |

**Acute Toxicity Estimate (ATE)**

**The following values are calculated based on chapter 3.1 of the GHS document**

| | |
|---|---|
| **ATEmix (oral)** | 10,426.00 mg/kg |

**Unknown acute toxicity**
0 % of the mixture consists of ingredient(s) of unknown toxicity.

**Skin corrosion/irritation**
Causes severe burns.

*Mixture* No data available.

*Substance* Test data reported below.

| Chemical name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|---|---|---|---|---|---|
| Sodium salicylate | OECD Test 404: Acute Dermal Corrosion/Irritation | Rabbit | 500 mg | 4 hours | Not corrosive or irritating to skin | ECHA |
| Trisodium citrate | Draize Test | Rabbit | 500 mg | 24 hours | Not corrosive or irritating to skin | ECHA |
| Sodium hydroxide | Patch test | Human | 20 mg | 24 hours | Corrosive to skin | RTECS |

**Serious eye damage/eye irritation**
Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.

*Mixture* No data available.

*Substance* Test data reported below.

| Chemical name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|---|---|---|---|---|---|
| Sodium salicylate | OECD Test 439: In | Human | 50 mg | 6 hours | Eye irritant | ECHA |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method | | | | | |
| Trisodium citrate | Draize Test | Rabbit | 0.1 mL | 24 hours | Mild eye irritant | IUCLID |
| Sodium hydroxide | Draize Test | Rabbit | 0.05 mg | 24 hours | Corrosive to eyes | RTECS |

**Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.

*Mixture* No data available.

*Substance* Test data reported below.

**Skin Sensitization Exposure Route:**

| Chemical name | Test method | Species | Results | Key literature references and sources for data |
|---|---|---|---|---|
| Sodium salicylate | Based on human experience | Human | No sensitisation responses were observed. | Vendor SDS |
| Trisodium citrate | OECD Test No. 406: Skin Sensitisation | Guinea pig | No sensitisation responses were observed. | IUCLID |

**Respiratory Sensitization Exposure Route:**

| Chemical name | Test method | Species | Results | Key literature references and sources for data |
|---|---|---|---|---|
| Sodium salicylate | Based on human experience | Human | Not confirmed to be a respiratory sensitizer | Vendor SDS |

**STOT - single exposure**
Based on available data, the classification criteria are not met.

*Mixture* No data available.

*Substance* Test data reported below.

**Oral Exposure Route:**

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|---|---|---|---|---|
| Sodium salicylate | Human $LD_{Lo}$ | 700 mg/kg | None reported | **Lungs, Thorax, or Respiration** | RTECS |

| | | | | | |
|---|---|---|---|---|---|
| | | | | Dyspnea | |

**STOT - repeated exposure**
Based on available data, the classification criteria are not met.

*Mixture* No data available.

*Substance* No data available.

**Germ cell mutagenicity**
Based on available data, the classification criteria are not met.

*Mixture invitro* **Data** No data available.

*Substance invitro* **Data** Test data reported below.

| Chemical name | Test | Cell Strain | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|---|---|---|---|---|---|
| Sodium salicylate | OECD 471 | *Salmonella typhimurium* | 0.158 mg/plate | 48 hours | Negative | No information available |
| Trisodium citrate | Mutation in microorganisms | *Salmonella typhimurium* | None reported | None reported | Negative | IUCLID |

*Mixture invivo* **Data** No data available.

*Substance invivo* **Data** Test data reported below.

**Oral Exposure Route:**

| Chemical name | Test | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|---|---|---|---|---|---|
| Sodium salicylate | DNA damage | Rat | 30 mg/L | None reported | Positive test result for mutagenicity | RTECS |

**Carcinogenicity**
Based on available data, the classification criteria are not met.

*Mixture* No data available.

*Substance* Test data reported below.

**Oral Exposure Route:**

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|---|---|---|---|---|
| Trisodium citrate | Rat | 3000 mg/kg | 2 years | Not Carcinogenic | IUCLID |

**Reproductive toxicity**
Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

*Mixture* No data available.

*Substance* Test data reported below.

**Oral Exposure Route:**

| Chemical name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|---|---|---|---|---|
| Sodium salicylate | Rat $TD_{Lo}$ | 40 mg/kg | 1 days | **Effects on Newborn** Stillbirth | RTECS |

**Aspiration hazard**
Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**
Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

**11.2.1. Endocrine disrupting properties**
**Endocrine disrupting properties** No information available.

**11.2.2. Other information**
**Other adverse effects** No information available.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

**Mixture**

**Acute aquatic toxicity:** No data available.

**Aquatic Chronic Toxicity:** No data available.

**Substance**

**Acute aquatic toxicity:** Test data reported below.

*Fish:*

| Chemical name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|---|---|---|---|---|---|
| Sodium salicylate | 96 hours | *Pimephales promelas* | $LC_{50}$ | 1370 mg/L | GESTIS |
| Sodium hydroxide | 96 hours | *Oncorhynchus mykiss* | $LC_{50}$ | 45.4 mg/L | IUCLID |

*Crustacea:*

| Chemical name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|---|---|---|---|---|---|
| Sodium hydroxide | 48 Hours | *Daphnia sp.* | $EC_{50}$ | 40.4 mg/L | IUCLID |

**Aquatic Chronic Toxicity:** No data available.

**12.2. Persistence and degradability**

**Mixture** No data available.

**12.3. Bioaccumulative potential**

**Mixture:** No data available.

*Partition coefficient* Not applicable

**12.4. Mobility in soil**

*Soil Organic Carbon-Water Partition Coefficient* Not applicable

**12.5. Results of PBT and vPvB assessment**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|---|---|
| Sodium salicylate | The substance is not PBT / vPvB |
| Sodium hydroxide | The substance is not PBT / vPvB |

**12.6. Endocrine disrupting properties**

*Endocrine Disruptor Information:* This product does not contain any known or suspected endocrine disruptors

**12.7. Other adverse effects**

No information available.

*Ozone:* Not applicable

*Ozone depletion potential (ODP):* No information available

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods**

**Advice on Disposal**

**Waste from residues/unused products** Our local agencies will accept used cuvettes to ensure their proper disposal.

**Waste disposal number of waste from residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.

**Waste disposal number of used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste.

**Contaminated packaging** Dispose of contents/containers in accordance with local regulations.

**Other Information** Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

**IMDG**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3316 |
| **14.2 Proper shipping name** | CHEMICAL KIT |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing Group** | Not regulated |
| **Description** | UN3316, CHEMICAL KIT, 9 |

| | |
|---|---|
| **14.5 Marine pollutant** | Not applicable |
| **14.6 Special precautions for user** | 251, 340 |
| **EmS-No** | F-A, S-P |
| **14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code** | Not applicable |

**ADR**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3316 |
| **14.2 Proper shipping name** | CHEMICAL KIT |
| **14.3 Transport hazard class(es)** | 9 |
| **Labels** | 9 |
| **14.4 Packing Group** | II |
| **Description** | UN3316, CHEMICAL KIT, 9, II |
| **14.5 Environmental hazards** | Not applicable |
| **14.6 Special precautions for user** | 251, 340 |
| **Classification code** | M11 |
| **Tunnel restriction code** | (E) |

**IATA**

| | |
|---|---|
| **14.1 UN number or ID number** | UN3316 |
| **14.2 Proper shipping name** | CHEMICAL KIT |
| **14.3 Transport hazard class(es)** | 9 |
| **14.4 Packing group** | II |
| **Description** | UN3316, CHEMICAL KIT, 9 |
| **14.5 Environmental hazards** | Not applicable |
| **14.6 Special precautions for user** | See section 6-8 for more information |
| **ERG Code** | 9L |

**Additional information**
This product forms part of a kit. Information in this section relates to the kit as a whole.
If the item is not regulated, the Chemical Kit classification does not apply.

## Section 15: REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**European Union**

**Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

**Take note of Directive 94/33/EC on the protection of young people at work**

**Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work**

**Authorisations and/or restrictions on use:**
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|---|---|---|
| Sodium hydroxide - 1310-73-2 | 75. | |

**Persistent Organic Pollutants** Not applicable

**Dangerous substance category per Seveso Directive (2012/18/EU)**
• Non-controlled

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**
Not applicable

**Germany**

**Water hazard class (WGK)** slightly hazardous to water (WGK 1)

| Chemical name | French RG number | Title |
|---|---|---|
| Sodium salicylate<br>54-21-7 | RG 15bis,RG 74 | - |

**International Inventories**

| | |
|---|---|
| **EINECS/ELINCS** | Complies |
| **TSCA** | Complies |
| **DSL/NDSL** | Complies |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECL - Existing substances** | Complies |
| **PICCS** | Complies |
| **AICS** | Complies |

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**15.2. Chemical safety assessment**

**Chemical Safety Report** Chemical safety assessments for substances in this mixture were not carried out.

## Section 16: OTHER INFORMATION

**Issue Date** 28-01-2005

**Revision Date** 22-Feb-2023

**Revision Note** SDS sections updated, 3, 8.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**

| | |
|---|---|
| ** | Hazard Designation |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieure |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service Number |
| Ceiling | Maximum limit value |
| CLP | Classification, Labelling and Packaging of substances and mixtures [Regulation (EC) No. 1272/2008] |
| DNEL | Derived No Effect Level (DNEL) |
| EC | European Community |
| ECHA | ECHA (The European Chemicals Agency) |
| EC50 | Effective Concentration to 50% of a test population |
| EEC | European Economic Community |
| EN | European Standard |
| IMDG | International Maritime Dangerous Goods (IMDG) |
| IATA | International Air Transport Association (IATA) |
| IATA-DGR | International Air Transport Association - Dangerous Goods Regulations |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | International Civil Aviation Organization - Technical Instructions |
| IUCLID | IUCLID (The International Uniform Chemical Information Database) |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| LOAEL | Lowest observed adverse effect level |
| LOAEC | Lowest observed adverse effect concentration |
| LC50 | Lethal Concentration to 50% of a test population |
| LD50 | Lethal Dose to 50% of a test population (Median Lethal Dose) |
| LOLI | LOLI (List of Lists - An International Chemical Regulatory Database) |
| MAK | Maximale Arbeitsplatz-Konzentration, a German expression corresponding to threshold limit |

| | |
|---|---|
| | value, which relates to safe daily exposure levels to chemical substances |
| NOAEL | NOAEL (No observed adverse effect level) |
| NOAEC | No observed adverse effect concentration |
| OSHA | OSHA (Occupational Safety and Health Administration of the US Department of Labour) |
| PEC | Predicted Effect Concentration |
| PNEC | Predicted No Effect Concentration (PNEC) |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals [Regulation (EC) No. 1907/2006]) |
| RID | Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) |
| RTECS | RTECS (Registry of Toxic Effects of Chemical Substances) |
| TWA | TWA (time-weighted average) |
| SKN* | Skin designation |
| SKN+ | Skin sensitisation |
| STEL | STEL (Short Term Exposure Limit) |
| STOT | Specific Target Organ Toxicity |
| STOT RE | Specific target organ toxicity — repeated exposure |
| STOT SE | Specific target organ toxicity — single exposure |
| SVHC | Substances of Very High Concern |
| TLV | Threshold Limit Value |
| TRGS | Technical rules for hazardous substances, Germany |
| TSCA | Toxic Substances Control Act |
| UN | United Nations |
| vPvB | very persistent and very bioaccumulative |
| VOC | Volatile organic compounds |
| AwSV | Administrative regulation of water polluting substances, Germany |

**Key literature references and sources for data**
See Section 11: TOXICOLOGICAL INFORMATION
See Section 12: ECOLOGICAL INFORMATION

**Classification procedure**

| **Classification according to Regulation (EC) No. 1272/2008 [CLP]** | **Method Used** |
|---|---|
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - Vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration toxicity | Calculation method |
| Ozone | Calculation method |
| Corrosive to metals | On basis of test data |

**Training Advice** Take note of Directive 98/24/EC on the protection of the health and safety of workers from

the risks related to chemical agents at work

**Restrictions on use** For Laboratory Use Only.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**