

Issue Date 19-09-2005

Revision Date 30-Jul-2024

Version 3.4

SAFETY DATA SHEET

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

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

1.1. Product identifier	
Product Code(s)	LCW804
Product Name	LCW 804 Nulllösung/Zero solution Amtax/Amtax inter
Molecular weight	Not applicable
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
Recommended Use	Determination of ammonium nitrogen.
Uses advised against	Consumer use
1.3. Details of the supplier of the	safety data sheet
Supplier HACH LANGE GmbH Willstätterstr. 11 D-40549 Düsseldorf Tel: +49 (0)211 5288-383 sds@hach.com	
Responsible country contact:	
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: Chemtrec: +44 20 3807 3798 IE: National Poisons Information Centre (NPIC) 01 809 2566 (24/7)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

<u>2.3. Other hazards</u> No information available.

No information availat

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

The product contains no substances which at their given concentration, are considered to be hazardous to health

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

Acute Toxicity Estimate No information available

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice	Take off contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If symptoms persist, call a doctor.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. If symptoms persist, call a doctor.

Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a doctor.	
Ingestion	Rinse mouth.	
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.		
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
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	Thermal decomposition can lead to release of irritating and toxic gases and vapours.	
Hazardous combustion products	This material will not burn.	
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	Evacuate personnel to safe areas. Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.
6.2. Environmental precautions	
Environmental precautions	Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment	Stop leak if you can do it without risk.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal. Place in appropriate chemical waste container. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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 and eyes. Avoid breathing vapours or mists. Take off contaminated clothing and wash it before reuse. Ensure adequate ventilation.		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work. Avoid contact with skin, eyes or clothing. Barrier creams may help to protect the exposed areas of skin.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.		
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 LimitsThis product, as supplied, does not contain any hazardous materials with occupational
exposure limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) 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	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 Viton™ gloves	0,70 mm	>480 minutes
Short term	Wear protective nitrile rubber gloves	0,20 mm	>30 minutes
Skin and body protection	Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse. 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.		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and after work. Avoid contact with skin, eyes or clothing. Barrier creams may help to protect the exposed areas of skin.		
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Odour Odourless

9.1. Information on basic physical and chemical properties

Physical	state	Liquid
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Colour colourless

Odour threshold Not applicable

Property	Values	Remarks • Method
Molecular weight	Not applicable	
рН	5 - 7	@ 20 °C
Melting point / freezing point	~ 0 °C / 32 °F	
Initial boiling point and boiling range	~ 100 °C / 212 °F	
Evaporation rate	No data available	
Vapour pressure	No data available	
Relative vapor density	No data available	
Partition coefficient	No data available	

Soil Organic Carbon-Water Partition Coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Dynamic viscosity	No data available	
Kinematic viscosity Relative density	No data available 1 g/mL	@ 20 °C

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate	No data available No data available
Explosive properties	
Upper explosion limit Lower explosion limit	Not applicable Not applicable
Flammable properties	
Flash point	No data available
Flammability	
Upper flammability limit: Lower flammability limit	No data available No data available
Oxidising properties	No data available.
Bulk density	Not applicable
9.2. Other information	

No information available.

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity

No information available.

10.2. Chemical stability

Stability	Stable under normal conditions.
10.3. Possibility of hazardous react	ions
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerisation	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	
Conditions to avoid	Extremes of temperature and direct sunlight.
10.5. Incompatible materials	
Incompatible materials	None known based on information supplied.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met

Mixture No data available.

Substance No data available.

Oral Exposure Route:

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium salicylate	Rat	930 mg/kg	None reported	Behavioral	RTECS
	LD50			Convulsions or effect on seizure	
				threshold	
				Muscle contraction or spasticity	

Acute Toxicity Estimate (ATE) Not applicable mg/kg

Unknown acute toxicity

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

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

Skin corrosion/irritation

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

Mixture No data available.

BE / EGHS

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

Serious eye damage/eye irritation

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

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 Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method		50 mg	6 hours	Eye irritant	ECHA

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

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	Reported	Exposure	Toxicological effects	Key literature references and
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	type	dose	time			sourc	es for data
Sodium salicylate	Human LD∟₀	700 mg/kg	None reporte	R	gs, Thorax, or espiration Dyspnea	R	TECS
STOT - repeated expo Based on available da		ation criteria a	are not met.	•		L	
Mixture No data available.							
Substance	stance No data available.						
Germ cell mutagenicity Based on available data, the classification criteria are not met.							
Mixture invitro Data		No data ava	ailable.				
Substance invitro Da	Substance invitro Data Test data reported below.						
Chemical name	Test	Cell	Strain Re	ported dose	Exposure time	Results	Key literature references and sources for data
Sodium salicylate	OECD 4		nonella 0.1 nurium	58 mg/plate	48 hours	Negative	No information available

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 No data available.

Reproductive 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	40 mg/kg	1 days	Effects on Newborn	RTECS
	TDLo			Stillbirth	

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

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.		
<u>Mixture</u>			
Acute aquatic toxicity:	No data available.		
Aquatic Chronic Toxicity:	No data available.		
Substance			
	Test data reported below		

Acute aquatic toxicity: Test data reported below.

Fish:

Chemical name	Exposure	Species	Endpoint type	Reported dose	Key literature references and
	time				sources for data
Sodium salicylate	96 hours	Pimephales promelas	LC50	1370 mg/L	GESTIS

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	No data available
<u>12.4. Mobility in soil</u>	
Soil Organic Carbon-Water Partition Coefficient	No data available

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or 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	Dispose of in accordance with local regulations. Dispose of waste in accordance with
products	environmental legislation.

Waste disposal number (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 (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	Do not reuse empty containers.

Section 14: TRANSPORT INFORMATION

ADR

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing Group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
<u>IATA</u>	_	
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None

IMDG

14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
	Packing Group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
14.7	Maritime transport in bulk	No information available
acco	rding to IMO instruments	

Additional information

Section 15: REGULATORY INFORMATION

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

European Union

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)

non-hazardous to water (nwg)

International Inventories	
EINECS/ELINCS	Complies
TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL	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

Section 16: OTHER INFORMATION

Issue Date	19-09-2005
Revision Date	30-Jul-2024
Revision Note	updated SDS sections: 2 11

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

**	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.

RTECS TWA SKN* SKN+ STEL STOT STOT RE STOT SE SVHC TLV TRGS TSCA UN VPVB VOC	1907/2006]) RTECS (Registry of Toxic Effects of Chemical Substances) TWA (time-weighted average) Skin designation Skin sensitisation STEL (Short Term Exposure Limit) Specific Target Organ Toxicity Specific target organ toxicity — repeated exposure Specific target organ toxicity — single exposure Substances of Very High Concern Threshold Limit Value Technical rules for hazardous substances, Germany Toxic Substances Control Act United Nations very persistent and very bioaccumulative 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
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

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
Prepared By	Hach Product Compliance Department
Restrictions on use	None

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

End of Safety Data Sheet