

according to Regulation (EC) No 1907/2006

### LCW 902 Crack-Set, LCW 902-A; 1/3

Revision date: 30.04.2019

Product code: LCW902-1

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

LCW 902 Crack-Set, LCW 902-A; 1/3

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

### Use of the substance/mixture

Water analysis

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

Company name:	HACH LANGE GmbH
Street:	Willstätterstr. 11
Place:	D-40549 Düsseldorf
Telephone:	+49 (0)211 5288-383
e-mail:	SDS@hach.com
Internet:	www.de.hach.com
Responsible Department:	HACH LANGE Ltd.
	5, Pacific Way
	Salford Manchester M50 1DL - United Kingdom
	Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324
	e-Mail: info-uk@hach.com
	HACH LANGE Ltd.
	Unit 1, Chestnut Road Western Industrial Estate
	IRL-Dublin 12
	Tel. +353 (0)1 4602522
	e-Mail: info-ie@hach.com
<u>1.4. Emergency telephone</u> number:	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories: Substance or mixture corrosive to metals: Met. Corr. 1 Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1 Hazard Statements: May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.

#### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

### Hazard components for labelling

Sulphuric acid ... %

Signal word:

#### Pictograms:





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#### Hazard statements

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H290	May be corrosive to metals.
H314	Causes severe skin burns and eve damage.

#### Precautionary statements

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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): Take off immediately all contaminated clothing. Rinse skin with water
	or 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/doctor.
P390	Absorb spillage to prevent material damage.

#### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification	•	·	
7732-18-5	32-18-5 Water			> 60 %
	231-791-2			
7664-93-9	sulphuric acid %			< 40 %
	231-639-5	016-020-00-8		
	Skin Corr. 1A; H314			

Full text of H and EUH statements: see section 16.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.

#### After inhalation

Move to fresh air. Consult a physician.

#### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Consult a physician. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Show this safety data sheet to the doctor in attendance.

### After contact with eyes

Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.

### After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water.



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Never give anything by mouth to an unconscious person. Call a physician immediately.

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

Irritation and corrosion

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

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.

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

The product itself does not burn. Gives off hydrogen by reaction with metals. Reacts violently with water. Fire may liberate hazardous vapours.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### 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

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal. After cleaning, flush away traces with water.

### 6.4. Reference to other sections

13. Disposal considerations

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Use only in well-ventilated areas.

#### Advice on protection against fire and explosion

See also section 5

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

### Hints on joint storage

Protect against Bases, Oxidizing agents, Metals

### 7.3. Specific end use(s)

Reagent for analysis



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### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL

#### Additional advice on limit values

None known.

### 8.2. Exposure controls

#### Appropriate engineering controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Protective and hygiene measures

Wash hands before breaks and at the end of workday.

### Eye/face protection

Safety glasses with side-shields

### Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

#### Skin protection

Avoid contact with skin, eyes and clothing.

#### Respiratory protection

Ensure adequate ventilation, especially in confined areas. Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

#### **Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

### **SECTION 9: Physical and chemical properties**

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

Physical state: Colour: Odour:	liquid colourless odourless	
pH-Value (at 20 °C):		< 0,5
Changes in the physical state		
Melting point:		not applicable
Initial boiling point and boiling range:		119 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		not applicable
:		no data available
Flash point:		not applicable
Sustaining combustion:		No data available
Flammability		



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Solid:	not applicable	
Gas:	not applicable	
Explosive properties not applicable		
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Ignition temperature:	not applicable	
Auto-ignition temperature		
Solid:	not applicable	
Gas:	not applicable	
Decomposition temperature:	not applicable	
Oxidizing properties not applicable		
Vapour pressure:	no data available	
Vapour pressure:	no data available	
Density (at 20 °C):	1,3 g/cm³	
Bulk density:	no data available	
Water solubility:	completely soluble	
Solubility in other solvents soluble		
Partition coefficient:	no data available	
Viscosity / dynamic:	no data available	
Viscosity / kinematic:	no data available	
Flow time:	no data available	
Vapour density:	no data available	
Evaporation rate:	no data available	
Solvent separation test:	no data available	
Solvent content:	no data available	
9.2. Other information		
Solid content:	no data available	
Corrosive in contact with metals		

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Corrosive to metals Reactivity Hazard: Oxidizing agents

### 10.2. Chemical stability

Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions

Reacts with the following substances: Alkali metals, Alkaline earth metals

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Bases, Oxidizing agents



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### 10.6. Hazardous decomposition products

Gives off hydrogen by reaction with metals.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

No data is available on the product itself.

#### Irritation and corrosivity

The product causes burns of eyes, skin and mucous membranes.

Liquid causes strong irritation of upper respiratory system and severe corneal injury. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

#### Sensitising effects

No known effect.

### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

#### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Aspiration hazard

No aspiration toxicity classification

#### Specific effects in experiment on an animal

LD50/oral/rat = 2140 mg/kg (25 % solution)

### Additional information on tests

None known.

#### Practical experience

Other observations

# Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 12: Ecological information**

### 12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

### 12.2. Persistence and degradability

No data is available on the product itself.

#### 12.3. Bioaccumulative potential

no data available

### 12.4. Mobility in soil

no data available

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

### no data available

### 12.6. Other adverse effects

No known effect.

Discharge into the environment must be avoided.



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#### **Further information**

Discharge into the environment must be avoided.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### Advice on disposal

Our local agencies will accept used cuvettes to ensure their proper disposal. In accordance with local and national regulations.

#### 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

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

### Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	Chemical kit
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9
	3
Classification code:	M11
Special Provisions:	251 340
Limited quantity:	SP251
Excepted quantity:	SP340
Transport category:	2
Hazard No:	-
Tunnel restriction code:	E
Inland waterways transport (ADN)	
Other applicable information (inland v Not tested	waterways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	CHEMICAL KIT
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9



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Marine pollutant:	<u>-</u>
Special Provisions:	251, 340
Limited quantity:	See SP251
Excepted quantity:	SP340
EmS:	F-A, S-P
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	CHEMICAL KIT
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9
Special Provisions:	A44 A163
Limited quantity Passenger:	1 kg
Passenger LQ:	Y960
Excepted quantity:	E0
IATA-packing instructions - Passenger:	960
IATA-max. quantity - Passenger:	10 kg
IATA-packing instructions - Cargo:	960
IATA-max. quantity - Cargo:	10 kg
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no
14.6. Special precautions for user	
Use personal protective equipment.	
14.7. Transport in bulk according to Annex II	of Marpol and the IBC Code
Not relevant	
Other applicable information	
These transport data apply to the entire	e pack
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regula	ations/legislation specific for the substance or mixture
EU regulatory information	
Restrictions on use (REACH, annex XVII):	
Entry 3: sulphuric acid %	
National regulatory information	

Employment restrictions:

Water contaminating class (D):

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). 1 - slightly water contaminating

### 15.2. Chemical safety assessment

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

### **SECTION 16: Other information**



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### Changes

Revision: 30.04.2019 Safety datasheet sections which have been updated: 2 Revision: 12.06.2018 Safety datasheet sections which have been updated: 2, 7, 15, 16 Revision: 24.04.2018 Safety datasheet sections which have been updated: 3, 11, 13, 16 Revision Date 26.04.2017 Safety datasheet sections which have been updated: 14, 15

Revision: 15.10.2015

Safety datasheet sections which have been updated: 2, 11

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

### Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

LCW 902 Crack-Set, LCW 902-B; 2/3 CAS No: 7727-21-1 Index No: 016-061-00-1 EC No: 231-781-8

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

#### Use of the substance/mixture

Water analysis

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

	Company name:	HACH LANGE GmbH
	Street:	Willstätterstr. 11
	Place:	D-40549 Düsseldorf
	Telephone:	+49 (0)211 5288-383
	e-mail:	SDS@hach.com
	Internet:	www.de.hach.com
	Responsible Department:	HACH LANGE Ltd.
		5, Pacific Way
		Salford Manchester M50 1DL - United Kingdom
		Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324
		e-Mail: info-uk@hach.com
		HACH LANGE Ltd.
		Unit 1, Chestnut Road Western Industrial Estate
		IRL-Dublin 12
		Tel. +353 (0)1 4602522
		e-Mail: info-ie@hach.com
1	4. Emergency telephone	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency
n	umber:	service -

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories: Oxidising solid: Ox. Sol. 3 Acute toxicity: Acute Tox. 4 Serious eye damage/eye irritation: Eye Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Skin corrosion/irritation: Skin Irrit. 2 Respiratory or skin sensitisation: Resp. Sens. 1 Respiratory or skin sensitisation: Skin Sens. 1 Hazard Statements: May intensify fire; oxidiser. Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled . May cause an allergic skin reaction.

### 2.2. Label elements



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### Regulation (EC) No. 1272/2008

Danger

Signal word:

Pictograms:



### Hazard statements

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

### Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

no data available

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

#### Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification				
7727-21-1	dipotassium peroxodisulphate; potassium persulphate			100 %	
	231-781-8				
	Ox. Sol. 3, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1; H272 H302 H319 H335 H315 H334 H317				

Full text of H and EUH statements: see section 16.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

Show this safety data sheet to the doctor in attendance.

### After inhalation

### Move to fresh air.

In the case of skin irritation or allergic reactions see a physician.



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### After contact with skin

Take off all contaminated clothing immediately. Wash off immediately with plenty of water. Consult a physician.

#### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### After ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

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

irritant effects, Allergic reactions, Cough, Shortness of breath

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

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 Limit

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

Oxidizing agents (strong) - Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Fire may liberate hazardous vapours.

In the event of fire the following can be released: Sulphur oxides

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### 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

Use personal protective equipment.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Use mechanical handling equipment.

Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

13. Disposal considerations

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Use only in well-ventilated areas. Do not breathe vapours/dust.

#### Further information on handling

Observe label precautions.



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

### Requirements for storage rooms and vessels

Keep in a dry, cool place.

### Hints on joint storage

Keep away from combustible material.

### 7.3. Specific end use(s)

Reagent for analysis

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7727-21-1	(OLD) Dipotassium peroxodisulphate (measured as [S208])	-	1		TWA (8 h)	OES

#### Additional advice on limit values

None known.

### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

Smoking, eating and drinking should be prohibited in the application area.

#### Eye/face protection

Safety glasses with side-shields

#### Hand protection

#### Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

#### Skin protection

Avoid contact with skin, eyes and clothing.

### Respiratory protection

Provide adequate ventilation. Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

#### **Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

### **SECTION 9: Physical and chemical properties**

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

Physical state:	powder
Colour:	white
Odour:	odourless

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HACH LANGE GmbH

Revision date: 29.04.2019 Product code: LCW902-2 Page 5 of 9 pH-Value (at 20 °C): 4 Changes in the physical state 100 °C Decomposition temperature Melting point: Initial boiling point and boiling range: not applicable Sublimation point: no data available Softening point: no data available not applicable Pour point: no data available Flash point: not applicable Sustaining combustion: No data available Flammability Solid: no data available Gas: no data available **Explosive properties** no data available not applicable Lower explosion limits: Upper explosion limits: not applicable Ignition temperature: no data available Auto-ignition temperature no data available Solid: Gas: no data available Decomposition temperature: 100 °C **Oxidizing properties** no data available no data available Vapour pressure: no data available Vapour pressure: 2,48 g/cm<sup>3</sup> Density (at 20 °C): Bulk density: 1150 kg/m<sup>3</sup> Water solubility: 47 g/L (at 20 °C) Solubility in other solvents no data available Partition coefficient: not applicable Viscosity / dynamic: no data available Viscosity / kinematic: no data available Flow time: no data available Vapour density: no data available Evaporation rate: no data available

### Solvent content: 9.2. Other information

Solvent separation test:

Solid content:

no data available

### **SECTION 10: Stability and reactivity**

no data available no data available

no data available



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### 10.1. Reactivity

Oxidizing agents (strong)

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

Reacts with the following substances: Metals, Heavy metals, Reducing agents

#### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Exposure to moisture.

# 10.5. Incompatible materials

Combustible material Reducing agents Bases

#### 10.6. Hazardous decomposition products

Sulphur oxides

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

Harmful	It	swal	lowed.

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
7727-21-1	dipotassium peroxodisulphate; potassium persulphate					
	oral	LD50 802 mg/kg	Rat	GESTIS		

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (dipotassium peroxodisulphate; potassium persulphate)

May cause an allergic skin reaction. (dipotassium peroxodisulphate; potassium persulphate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

May cause respiratory irritation. (dipotassium peroxodisulphate; potassium persulphate)

#### STOT-repeated exposure

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

### Aspiration hazard

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

### Specific effects in experiment on an animal

No toxicology information is available.

#### Additional information on tests

None known.

### Further information

Handle in accordance with good industrial hygiene and safety practice.



according to Regulation (EC) No 1907/2006

### LCW 902 Crack-Set, LCW 902-B; 2/3

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### **SECTION 12: Ecological information**

### 12.1. Toxicity

No information on ecology is available.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name	Chemical name					
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
7727-21-1	dipotassium peroxodisulpl	dipotassium peroxodisulphate; potassium persulphate					
	Acute fish toxicity	LC50	100 mg/l	96 h	Poecilia reticulata	Hommel	

#### 12.2. Persistence and degradability

No data is available on the product itself.

#### 12.3. Bioaccumulative potential

no data available

#### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

### 12.6. Other adverse effects

Discharge into the environment must be avoided.

#### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### Advice on disposal

Our local agencies will accept used cuvettes to ensure their proper disposal. In accordance with local and national regulations.

#### 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 as unused product.

#### **SECTION 14: Transport information**

### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	Chemical kit
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9
Classification code:	M11



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	LCW 902 Crack-Se	t, LCW 902-B; 2/3	
Revision date: 29.04.2019	Product code	e: LCW902-2	Page 8 of 9
Special Provisions:	251 340		
Limited quantity:	SP251		
Excepted quantity:	SP340		
Transport category: Hazard No:	2		
Tunnel restriction code:	E		
Inland waterways transport (ADN)			
Other applicable information (inland wa Not tested	aterways transport)		
Marine transport (IMDG)			
<u>14.1. UN number:</u>	UN 3316		
14.2. UN proper shipping name:	CHEMICAL KIT		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	П		
Hazard label:	9		
	9		
Marine pollutant:			
Special Provisions:	251, 340		
Limited quantity:	See SP251		
Excepted quantity: EmS:	SP340 F-A, S-P		
Air transport (ICAO-TI/IATA-DGR)	г- <b>А</b> , 3-г		
<u>14.1. UN number:</u>	UN 3316		
14.2. UN proper shipping name:	CHEMICAL KIT		
14.3. Transport hazard class(es):	9		
14.4. Packing group:	U II		
Hazard label:	9		
	Å		
	AIN		
	9		
Special Provisions:	A44 A163		
Limited quantity Passenger:	1 kg		
Passenger LQ:	Y960		
Excepted quantity:	E0		
IATA-packing instructions - Passenger:		960	
IATA-max. quantity - Passenger:		10 kg	
IATA-packing instructions - Cargo:		960 40 km	
IATA-max. quantity - Cargo:		10 kg	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	no		
<b><u>14.6. Special precautions for user</u></b> Use personal protective equipment.			
14.7. Transport in bulk according to Annex	II of Marnol and the IE	3C Code	
Not relevant		<u></u>	
Other applicable information			
These transport data apply to the en	tire pack		

These transport data apply to the entire pack



according to Regulation (EC) No 1907/2006

### LCW 902 Crack-Set, LCW 902-B; 2/3

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### **SECTION 15: Regulatory information**

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

# National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

1 - slightly water contaminating

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

#### Changes

Revision: 29.04.2019 Safety datasheet sections which have been updated: 2, 11, 15 Revision: 12.06.2018 Safety datasheet sections which have been updated: 2, 11, 15 Revision: 20.04.2018 Safety datasheet sections which have been updated: 4, 8, 12, 13 Revision Date 26.04.2017 Safety datasheet sections which have been updated: 9, 14, 15

Revision: 15.10.2015

Safety datasheet sections which have been updated: 2, 8, 11

### Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

#### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.



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### LCW 902 Crack-Set, LCW 902-C; 3/3

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

LCW 902 Crack-Set, LCW 902-C; 3/3

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

### Use of the substance/mixture

Water analysis

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

Company name:	HACH LANGE GmbH
Street:	Willstätterstr. 11
Place:	D-40549 Düsseldorf
Telephone:	+49 (0)211 5288-383
e-mail:	SDS@hach.com
Internet:	www.de.hach.com
Responsible Department:	HACH LANGE Ltd.
	5, Pacific Way
	Salford Manchester M50 1DL - United Kingdom
	Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324
	e-Mail: info-uk@hach.com
	HACH LANGE Ltd.
	Unit 1, Chestnut Road Western Industrial Estate
	IRL-Dublin 12
	Tel. +353 (0)1 4602522
	e-Mail: info-ie@hach.com
<u>1.4. Emergency telephone</u> number:	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service -

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories: Substance or mixture corrosive to metals: Met. Corr. 1 Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1 Hazard Statements: May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.

#### 2.2. Label elements

### Regulation (EC) No. 1272/2008

### Hazard components for labelling

Sodium hydroxide; caustic soda

## Signal word:

Pictograms:





according to Regulation (EC) No 1907/2006

### LCW 902 Crack-Set, LCW 902-C; 3/3

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#### Hazard statements

nazara otatomonto	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
Precautionary stateme	ents

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): Take off immediately all contaminated clothing. Rinse skin with water or 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/doctor.
P390	Absorb spillage to prevent material damage.

### Additional advice on labelling

# no data available

2.3. Other hazards

no data available

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification	•	•	
7732-18-5	Water			< 70%
	231-791-2			
1310-73-2	Sodium hydroxide; causti	c soda		< 30 %
	215-185-5	011-002-00-6	01-2119457892-27	
	Skin Corr. 1A; H314			
141-53-7	Sodium formate			< 10%
	205-488-0			

Full text of H and EUH statements: see section 16.

### SECTION 4: First aid measures

### 4.1. Description of first aid measures

### General information

Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.

Show this safety data sheet to the door

#### After inhalation Move to fresh air.

In the case of skin irritation or allergic reactions see a physician.

#### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Consult a physician. Show this safety data sheet to the doctor in attendance.



according to Regulation (EC) No 1907/2006

### LCW 902 Crack-Set, LCW 902-C; 3/3

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After contact with eyes

Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.

#### After ingestion

Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

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

Irritation and corrosion

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

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.

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

Fire may liberate hazardous vapours.

#### 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### 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

Use personal protective equipment.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal. After cleaning, flush away traces with water.

#### 6.4. Reference to other sections

13. Disposal considerations

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Use only in well-ventilated areas.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

Reagent for analysis

### SECTION 8: Exposure controls/personal protection



according to Regulation (EC) No 1907/2006

### LCW 902 Crack-Set, LCW 902-C; 3/3

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### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

#### Additional advice on limit values

None known.

### 8.2. Exposure controls

#### Appropriate engineering controls

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Protective and hygiene measures

Wash hands before breaks and at the end of workday. Smoking, eating and drinking should be prohibited in the application area.

### Eye/face protection

Safety glasses with side-shields

#### Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

#### Skin protection

Avoid contact with skin, eyes and clothing.

### Respiratory protection

Provide adequate ventilation. Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

#### **Environmental exposure controls**

Do not flush into surface water or sanitary sewer system.

### **SECTION 9: Physical and chemical properties**

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

Physical state: Colour: Odour: pH-Value (at 20 °C):	liquid colourless odourless	14
Changes in the physical state		
Melting point:		not applicable
Initial boiling point and boiling range:		no data available
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		no data available
:		no data available
Flash point:		not applicable
Sustaining combustion:		No data available
Flammability Solid:		not applicable



vision data, 20.04.2040

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

# LCW 902 Crack-Set, LCW 902-C; 3/3

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Gas:	not applicable
Explosive properties not applicable	
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable
Auto-ignition temperature Solid: Gas:	not applicable not applicable
Decomposition temperature:	no data available
Oxidizing properties not applicable	
Vapour pressure:	no data available
Vapour pressure:	no data available
Density (at 20 °C):	1,33 g/cm³
Bulk density:	no data available
Water solubility:	completely soluble
Solubility in other solvents soluble	
Partition coefficient:	no data available
Viscosity / dynamic:	no data available
Viscosity / kinematic:	no data available
Flow time:	no data available
Vapour density:	no data available
Evaporation rate:	no data available
Solvent separation test:	no data available
Solvent content:	no data available
9.2. Other information	
Solid content:	not applicable
no data available	
CECTION 40. Stability and reactivity	

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

### None known.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Acids

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.



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### LCW 902 Crack-Set, LCW 902-C; 3/3

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### **Further information**

Stable under recommended storage conditions.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met. No data is available on the product itself.

#### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

### STOT-single exposure

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

#### STOT-repeated exposure

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

### Aspiration hazard

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

#### Specific effects in experiment on an animal

No toxicology information is available.

### Additional information on tests

None known.

#### Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

#### 

CAS NO	Chemical name				
	Aquatic toxicity	Dose	[h]   [d] Species	Source	Method
1310-73-2	Sodium hydroxide; caustic	soda			
	Acute fish toxicity	LC50 45,4 mg/l	96 h Onchorhynchus mykiss		

#### 12.2. Persistence and degradability

No data is available on the product itself.

#### 12.3. Bioaccumulative potential

no data available

#### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

Discharge into the environment must be avoided.



according to Regulation (EC) No 1907/2006

### LCW 902 Crack-Set, LCW 902-C; 3/3

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### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Advice on disposal

160506

Our local agencies will accept used cuvettes to ensure their proper disposal. In accordance with local and national regulations.

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

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 as unused product.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	Chemical kit
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9
Classification code:	M11
Special Provisions:	251 340
Limited quantity:	SP251
Excepted quantity:	SP340
Transport category:	2
Hazard No: Tunnel restriction code:	- F
	E
Inland waterways transport (ADN)	
Other applicable information (inland wate Not tested	rways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 3316
14.2. UN proper shipping name:	CHEMICAL KIT
14.3. Transport hazard class(es):	9
14.4. Packing group:	II
Hazard label:	9
Marine pollutant:	
Special Provisions:	251, 340



according to Regulation (EC) No 1907/2006

	LCW 902 Crack-Set, LCW 902-C; 3/3	
Revision date: 30.04.2019	Product code: LCW902-3	Page 8 of 9
Limited quantity:	See SP251	
Excepted quantity:	SP340	
EmS:	F-A, S-P	
Air transport (ICAO-TI/IATA-DGR)	UN 3316	
<u>14.1. UN number:</u> 14.2. UN proper shipping name:	CHEMICAL KIT	
14.3. Transport hazard class(es):	9	
14.4. Packing group:		
Hazard label:	9	
	9	
Special Provisions: Limited quantity Passenger:	A44 A163 1 kg	
Passenger LQ:	Y960	
Excepted quantity:	E0	
IATA-packing instructions - Passenger:	960 40 km	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	10 kg 960	
IATA-max. quantity - Cargo:	10 kg	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
<b><u>14.6. Special precautions for user</u></b> Use personal protective equipment.		
14.7. Transport in bulk according to Annex Not relevant	II of Marpol and the IBC Code	
Other applicable information		
These transport data apply to the enti	re pack	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regu	ulations/legislation specific for the substance or mixture	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).	9
Water contaminating class (D):	1 - slightly water contaminating	
15.2. Chemical safety assessment		
Chemical safety assessments for sub	stances in this mixture were not carried out.	
SECTION 16: Other information		
Changes Revision: 30.04.2019 Safety datasheet sections which have Revision: 12.06.2018 Safety datasheet sections which have Revision: 20.04.2018 Safety datasheet sections which have	been updated: 15, 16	
Revision Date 26.04.2017 Safety datasheet sections which have	been updated: 7, 9, 14, 15	



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### LCW 902 Crack-Set, LCW 902-C; 3/3

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Revision: 15.10.2015

Safety datasheet sections which have been updated: 2, 8

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

### Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)