

## **SAFETY DATA SHEET**

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

Issue Date 20-Mar-2023 Revision Date 14-Jun-2024 Version 4.5

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

#### 1.1. Product identifier

Product Code(s) LCK348-1

Product Name LCK 348 Phosphat/Phosphate, Sample cuvette; 1/4

Unique Formula Identifier (UFI) 2806-5F1J-U80C-FAQ6

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

**Recommended Use** Laboratory Reagent. Phosphate determination.

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: 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]

Corrosive to metals Category 1 - (H290)

#### 2.2. Label elements

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



Signal word Warning

#### **Hazard statements**

H290 - May be corrosive to metals

## **Precautionary statements**

P390 - Absorb spillage to prevent material damage

#### 2.3. Other hazards

Causes mild skin irritation.

## 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. EC No. Index No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Sulfuric acid	7664-93-9 231-639-5 (016-020-00-8) 016-020-00-8	1 - 5%	Skin Corr. 1A - H314 Eye Dam. 1 - H318	Eye Irrit. 2:H319: 5%<=C<15% Skin Corr. 1A :H314: C>=15% Skin Irrit. 2 :H315: 5%<=C<15%	-	-

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

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Acute Toxicity Estimate No information available

## Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**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 medical attention if irritation develops and

persists.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a doctor.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Prolonged contact may cause redness and irritation.

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

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.

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## **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.

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.

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.

**General hygiene considerations** The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace. 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.

#### 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** 

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Chemical name	European Union	United Kingdom	Ireland
Sulfuric acid	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.05 ppm
7664-93-9	-	STEL: 0.15 mg/m <sup>3</sup>	STEL: 0.15 ppm

## Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Sulfuric acid	-	-	0.05 mg/m <sup>3</sup> [5] [6]
7664-93-9			0.1 mg/m³ [5] [7]

**Notes** 

[5] Local health effects.

[6] Long term. [7] Short term.

## **Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Sulfuric acid 7664-93-9	0.0025 mg/L	-	0.00025 mg/L	-	-
Phosphoric acid, disodium salt 7558-79-4	0.05 mg/L	0.5 mg/L	0.005 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Sulfuric acid 7664-93-9	0.002 mg/kg sediment dw	0.002 mg/kg sediment dw	8.8 mg/L	-	-
Phosphoric acid, disodium salt 7558-79-4	-	-	50 mg/L	-	-

## 8.2. Exposure controls

Engineering controls Technical measures and appropriate working operations should be given priority over the

use of personal protective equipment.

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					
Short term	Wear protective nitrile rubber	0,40 mm	>30 minutes					
	gloves							
Long term (repeated)	Wear protective Viton™	0,70 mm	>480 minutes					

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gloves

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

**Respiratory protection** Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Recommended filter type: ABEK-P3.

General hygiene considerations The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace. 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.

**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 colourless Odour Odourless

Odour threshold No data available

Property Values Remarks • Method

Molecular weight No data available

**pH** 1.0 @ 20 °C

Melting point / freezing point ~ -1 °C / 30.2 °F

Initial boiling point and boiling range  $\sim 100$  °C / 212 °F

**Evaporation rate** 0.85 (water = 1)

**Vapour pressure** 20.027 mm Hg / 2.67 kPa at 20 °C / 68 °F

Relative vapor density 0.03

Partition coefficient Not applicable

Soil Organic Carbon-Water Partition Not applicable

Coefficient

Autoignition temperature No data available

**Decomposition temperature** No data available

Dynamic viscosity

No data available

Kinematic viscosity No data available

Relative density 1.04 g/mL @ 20 °C

Solubility(ies)

Water solubility

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Water solubility classification	Water solubility_	Water Solubility Temperature_
Completely soluble	> 10000 mg/L	20 °C / 68 °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 28.9 mm/yr / 1.14 in/yr Aluminum Corrosion Rate No data available

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point No data available

**Flammability** 

Upper flammability limit:No data availableLower flammability limitNo 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** No information available.

10.4. Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods. Extremes of temperature and direct

sunlight.

10.5. Incompatible materials

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Incompatible materials Oxidising agent.

#### 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.

## Acute Toxicity Estimate (ATE) Not applicable

mg/kg

#### Unknown acute toxicity

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

## **Skin corrosion/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
Sulfuric acid	Existing human experience	Human	None reported	None reported	Corrosive to skin	HSDB

## Serious eye damage/eye irritation

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

Mixture No data available.

Substance Test data reported below.

Cł	hemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
	Sulfuric acid	Existing human experience	Human	None reported	None reported	Corrosive to eyes	HSDB

## Respiratory or skin sensitisation

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

Mixture No data available.

Substance No data available.

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STOT - single exposure

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

Mixture No data available.

Substance Test data reported below.

#### Inhalation (Vapor) Exposure Route:

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sulfuric acid	Human TD∟₀	0.144 mg/L	5 minutes	Lungs, Thorax, or Respiration	RTECS
				Dyspnea	

STOT - repeated exposure

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

Mixture No data available.

Substance Test data reported below.

## Inhalation (Vapor) Exposure Route:

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sulfuric acid	Human	0.003 mg/L	168 days	Musculoskeletal	RTECS
	TCLo	_	-	Changes in teeth and supporting	
				structures	

## **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
Sulfuric acid	Cytogenetic analysis	Hamster ovary	4 mmol/L	None reported	Positive test result for mutagenicity	No information available

Mixture invivo **Data** No data available.

Substance invivo **Data** No data available.

**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.

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Mixture No data available.

Substance Test data reported below.

## Inhalation (Vapor) Exposure Route:

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sulfuric acid	Rabbit	0.02 mg/L	7 hours	Specific Developmental	No information available
	TCLo			Abnormalities	
				Musculoskeletal system	

#### **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.

**Mixture** 

Acute aquatic toxicity: No data available.

Aquatic Chronic Toxicity: No data available.

Substance

Acute aquatic toxicity: No data available.

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

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#### 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		
Sulfuric acid	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

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Our local agencies will accept used cuvettes to ensure their

proper disposal.

#### 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 Waste codes should be assigned by the user based on the application for which the product

was used.

## **Section 14: TRANSPORT INFORMATION**

**ADR** 

14.1 UN number or ID number 3316

14.2 UN proper shipping name CHEMICAL KIT

14.3 Transport hazard class(es) 9

14.4 Packing Group14.5 Environmental hazardsNot regulatedNot applicable

14.6 Special precautions for user

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Special Provisions 251, 340, 671
Classification code M11
Tunnel restriction code (E)

## IATA

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
UN3316 Chemical kit
9

14.4 Packing group Not regulated14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None

## **IMDG**

**14.1 UN number or ID number** UN3316 **14.2 UN proper shipping name** CHEMICAL KIT

14.3 Transport hazard class(es) 9

14.4 Packing Group Not regulated14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 251, 340 EmS-No F-A, S-P

**14.7 Maritime transport in bulk** No information available

according to IMO instruments

#### **Additional information**

This product forms part of a kit. Information in this section relates to the kit as a whole.

## 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

## 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	Substance subject to authorisation per	
	Annex XVII	REACH Annex XIV	
Sulfuric acid - 7664-93-9	Use restricted. See entry 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

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Water hazard class (WGK) non-hazardous to water (nwg)

#### **France**

## Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Sulfuric acid	RG 5,RG 14,RG 15,RG	-
7664-93-9	15bis,RG 20bis	
	RG 14,RG 20bis,RG 65	

#### **International Inventories**

**EINECS/ELINCS** Complies **TSCA** Complies **DSL/NDSL** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies Complies **AICS** 

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** 20-Mar-2023

Revision Date 14-Jun-2024

**Revision Note** updated SDS sections:

2

## 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

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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 (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 (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 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])

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 11. TOXICOLOGICAL INFORMATION

Classification procedure

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

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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
Reproductive toxicity	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

## Full text of H-Statements referred to under section 3

H314 - Causes severe skin burns and eye damage

**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** 

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