This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date: 09-Aug-2021 Revision Number: 1

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

#### 1.1. Product identifier

Product Name: Kluthe Salmiakgeist 25 %, 1 Liter

Article number: 069030330000

Hazard components for labeling: Contains Ammonium hydroxide

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

Product categories [PC]: PC35 - Washing and cleaning products (including solvent based products)

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

Supplier: conti coatings GmbH

Feldstrasse 55

D - 46149 Oberhausen Telefon: +49 208/ 9948-0 Telefax: +49 208/ 650625 www.conticoatings.com

E-mail address sds.ob@kluthe.com

### 1.4. Emergency telephone number

Emergency Telephone: +49 177 / 214 4737 (24 h)

Emergency Telephone - §45 - (EC)1272/2008			
Europe	112		
Austria	+43 1 406 43 43 (Giftinformationszentrale)		

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

#### 2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

### 2.2. Label elements



Signal word: Danger

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Kluthe Salmiakgeist 25 %, 1 Liter - 069030330000

#### Hazard components for labeling:

Contains Ammonium hydroxide

#### **Hazard statements:**

H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

H400 - Very toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

#### Precautionary Statements - EU (§28, 1272/2008):

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing and eye/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 or doctor

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

#### **Additional information**

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

#### 2.3. Other hazards

No information available.

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

aqueous ammonia solution

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

Chemical name	CAS No	EC No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Ammonium hydroxide	1336-21-6	215-647-6	01-2119488876-14	Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	25 - < 50

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Ammonium hydroxide	STOT SE 3 (H335):: C>=5%			В

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Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
1336-21-6				

Acute Toxicity Estimate: No information available.

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

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

### 4.1. Description of first aid measures

General advice: Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

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

medical advice/attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get immediate medical advice/attention.

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

person. Get immediate medical advice/attention.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes

or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation. Wear personal protective clothing (see section 8).

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

Symptoms: Burning sensation.

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

Note to physicians: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



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Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical:

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

decomposition can lead to release of irritating gases and vapors.

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.

### **SECTION 6: Accidental release measures**

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

Personal precautions: Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe

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

Other information: Refer to protective measures listed in Sections 7 and 8.

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

6.2. Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Should not be released into the

environment. Do not allow to enter into soil/subsoil. Prevent product from entering

drains.

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up: 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

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Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact

with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated

clothing and wash before reuse. Avoid breathing vapors or mists.

General hygiene considerations: Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after

handling the product.

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

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other

materials.

7.3. Specific end use(s)

Other information: No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Exposure Limits:

Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Ammonium hydroxide				TWA: 20 ppm		
1336-21-6				TWA: 14 mg/m <sup>3</sup>		
				STEL: 50 ppm		
				STEL: 36 mg/m <sup>3</sup>		

Biological occupational exposure

limits:

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ammonium hydroxide	47.6 mg/m <sup>3</sup>	47.6 mg/m <sup>3</sup>	14 mg/m³	36 mg/m <sup>3</sup>

Worker - dermal:

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Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ammonium hydroxide	6.8 mg/kg bw/day	6.8 mg/kg bw/day		

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ammonium hydroxide	23.8 mg/m <sup>3</sup>	23.8 mg/m <sup>3</sup>	2.8 mg/m <sup>3</sup>	7.2 mg/m <sup>3</sup>

Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ammonium hydroxide	68 mg/kg bw/day	68 mg/kg bw/day		

consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ammonium hydroxide	6.8 mg/kg bw/day	6.8 mg/kg bw/day		

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Ammonium hydroxide
Freshwater	0.0011 mg/L
Marine water	0.0011 mg/L
Intermittent release	0.0068 mg/L

### 8.2. Exposure controls

Engineering controls: None under normal use conditions.

Personal protective equipment:



Eye/face protection: Tight sealing safety goggles. Face protection shield.

Hand protection: Wear suitable gloves. Impervious gloves.

PPE - Glove material	Glove thickness	Break through time
Butyl caoutchouc (butyl rubber)	0.5 mm	>=480 min.

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec K

Environmental exposure controls: No information available.

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

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

Appearance	Liquid
Color	colorless

Odor	Amm	nonia				
Melting point / melting range				Conditions	Method	Remarks Not established
Boiling point / boiling range	~	38	°C			
Flammability						Not established
Decomposition temperature		450	°C			
Flash point						Not established
Autoignition temperature		651	°C			
Lower explosive limit		16	Vol%			NH3
Upper explosion limit		27	Vol%			NH3
Vapor pressure		447	hPa	20 °C		
Density	~	0.915	g/cm³	20 °C		
Water solubility						Miscible
рН	>	12		20 °C		
pH (as aqueous solution)						Not applicable
Partition coefficient		-1.14				
Kinematic viscosity						Not applicable
Odor threshold		5 - 25	ppm			
Relative density						Not established
Evaporation rate						Not established

**Evaporation rate** 

Relative vapor density no data available **Particle Size** no data available **Particle Size Distribution** no data available

### 9.2. Other information

**Bulk density:** no data available No information available Softening point

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Molecular weight No information available

9.2.1. Information with regard to physical hazard classes:

Explosive properties Not applicable Oxidizing properties Not applicable

9.2.2. Other safety characteristics: No information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity: No information available.

10.2. Chemical stability

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None. Sensitivity to static discharge: None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Incompatible materials: Acids. Bases. Oxidizing agent.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Information on likely routes of exposure:

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory

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tract.

Eye contact: Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components). Corrosive to the eyes and may cause severe damage

including blindness. May cause irreversible damage to eyes.

Skin contact: Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

Ingestion: Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Redness. Burning. May cause blindness. Coughing and/ or wheezing.

Numerical measures of toxicity:

Acute toxicity: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Causes burns.

Serious eye damage/eye irritation: Risk of serious damage to eyes. Causes burns.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity:

No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT - single exposure: May cause respiratory irritation.

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No information available.

#### 11.2.2. Other information

No information available.

#### SECTION 12: Ecological information

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#### 12.1. Toxicity

Ecotoxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ammonium hydroxide	LC50	Pimephales promelas	8.2 mg/L	96 h	
1336-21-6					

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ammonium hydroxide	EC50	Daphnia pulex	0.66 mg/L	48 h	
1336-21-6					

### 12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Ammonium hydroxide 1336-21-6			Yes		

### 12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Ammonium hydroxide		-0.64
1336-21-6		

#### 12.4. Mobility in soil

Mobility in soil:

No information available.

No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment: No information available

### 12.6. Endocrine disrupting properties.

No information available.

### 12.7. Other adverse effects.

No information available.

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

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#### 13.1. Waste treatment methods

Waste from residues/unused products:

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging: Do not reuse empty containers.

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

#### 14.1. UN number

 ADR:
 UN2672

 RID:
 UN2672

 IMDG:
 UN2672

 IATA:
 UN2672

### 14.2 UN proper shipping name

ADR: AMMONIA SOLUTION

UN2672, AMMONIA SOLUTION, 8, III, Environmentally Hazardous

RID: AMMONIA SOLUTION

UN2672, AMMONIA SOLUTION, 8, III, Environmentally Hazardous

IMDG: AMMONIA SOLUTION

UN2672, AMMONIA SOLUTION, 8, III, MARINE POLLUTANT

IATA: AMMONIA SOLUTION

UN2672, AMMONIA SOLUTION, 8, III

#### 14.3. Transport hazard class(es)

ADR: Hazard label(s) Classification code Hazard identification number (Kemler No.)	8 8 C5 80
Tunnel restriction code Limited quantity (LQ) ADR excepted quantity	(E) 5 L E1
RID:	8
Labels	8
Classification code	C5
IMDG:	8
Hazard label(s)	8

segregation group segregation group 18 - Alkalis

5 L

E1

EmS-No F-A, S-B

IATA: 8
Hazard label(s) 8

Limited quantity (LQ)

**IMDG Excepted Quanity** 

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IATA Excepted Quantity E1

### 14.4. Packing group

ADR: III RID: III IMDG: III IATA: III

#### 14.5. Environmental hazards

ADR: Yes RID: Yes

IMDG: Marine pollutant

IATA: Yes

### 14.6. Special precautions for user

ADR:

Special Provisions: 543

RID:

Special Provisions: 543

IMDG: Not regulated

IATA:

Special Provisions: A64, A803

ERG Code 8L

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

### SECTION 15: Regulatory information

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

#### **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

Authorizations 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	Substance subject to authorization	Restricted substance per REACH
	per REACH Annex XIV	Annex XVII
Ammonium hydroxide		75.
1336-21-6		

Persistent Organic Pollutants:

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU):

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EG: 0 % acc. reg. 2004/42/EG (Decopaint): 0 %

#### National regulations:

#### Germany:

Water hazard class (WGK): obviously hazardous to water (WGK 2) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Ammonium hydroxide	2	211
1336-21-6		

Storage class (TRGS 510): 8B • LGK8B - Non-combustible corrosive substances

#### Austria:

Flammable Liquids Regulations, VbF: Not regulated

#### Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 0 %

#### International Inventories:

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

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**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: No information available

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

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

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

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

#### Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road

(Accord européen relatif transport des merchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

**BCF**: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction

DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level

DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OECD: Organization for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PC: Product category

PNEC: Predicted No Effect Concentration

REACh: Registration, Evaluation and Authorization of Chemicals

RID:Regulations concerning the international carriage of dangerous goods by rail

(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit STP: Sewage treatment plant

SVHC: Substance of Very High Concern

TLV: Threshold Limit Value TWA: Time Weighted Average

**UN: United Nations** 

VOC: Volatile Organic Compounds

vPvB: very persistent, very bioaccumulative

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

\* Skin designation

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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 - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Revision date: 24-Aug-2021

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

#### Disclaimer:

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**End of Safety Data Sheet**