

SAFETY DATA SHEET

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



Revision date: 03-Aug-2021

Revision Number: 1

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

1.1. Product identifier

Product Name: Kluthe Salzsäure < 24%
Article number: 069050330000
UFI: KWFV-YVM8-SM03-42AC
Hazard components for labeling: Contains Hydrochloric acid

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

Product categories [PC]: PC20 - Products such as pH-regulators, flocculants, precipitants, neutralization agents

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

Corrosive to metals	Category 1 - (H290)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Specific target organ toxicity (single exposure)	Category 3 - (H335)

2.2. Label elements



Signal word: Danger

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Hazard components for labeling:

Contains Hydrochloric acid

Hazard statements:

H290 - May be corrosive to metals.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

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

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

P280 - Wear protective gloves and eye/face protection

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

P405 - Store locked up

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

P201 - Obtain special instructions before use

P234 - Keep only in original packaging

P406 - Store in corrosive resistant stainless steel container with a resistant inner liner

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

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-%
Hydrochloric acid	7647-01-0	231-595-7	01-2119484862-27	Met. Corr. 1 (H290) Skin Corr. 1A (H314) Eye Dam. 1 (H318) par STOT SE 3 (H335)	10 - < 25

[A] - Not classified, Data are conclusive but insufficient for classification

Acute Toxicity Estimate:

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Hydrochloric acid 7647-01-0	No data available	5010	No data available	No data available	No data available

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation:	Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention.
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 physician.
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: Burning sensation.

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

Note to physicians: 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.
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: No information available.

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.

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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. Evacuate personnel to safe areas.

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.

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



Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations: Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing.

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.

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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	European Union	Germany	Netherlands	Spain	United Kingdom	Hungary
Hydrochloric acid 7647-01-0	TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³	TWA: 2 ppm TWA: 3 mg/m ³	TWA: 8 mg/m ³ STEL: 15 mg/m ³	TWA: 5 ppm TWA: 7.6 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³	TWA: 1 ppm TWA: 2 mg/m ³ STEL: 5 ppm STEL: 8 mg/m ³	TWA: 8 mg/m ³ STEL: 16 mg/m ³

Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Hydrochloric acid 7647-01-0	STEL: 5 ppm STEL: 7.6 mg/m ³	TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³	TWA: 5 ppm TWA: 8 mg/m ³ STEL: 10 ppm STEL: 15 mg/m ³ Ceiling: 2 ppm	STEL: 5 ppm STEL: 7.6 mg/m ³	Ceiling: 5 ppm Ceiling: 8 mg/m ³	TWA: 8 mg/m ³ Ceiling: 15 mg/m ³

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Hydrochloric acid 7647-01-0	TWA: 5 ppm TWA: 8 mg/m ³ STEL 10 ppm STEL 15 mg/m ³	TWA: 2 ppm TWA: 3 mg/m ³ STEL: 4 ppm STEL: 6 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³	Ceiling: 5 ppm Ceiling: 7 mg/m ³	TWA: 8 mg/m ³ TWA: 5 ppm STEL: 10 ppm STEL: 15 mg/m ³	MAC: 5 mg/m ³

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
Hydrochloric acid			8 mg/m ³	15 mg/m ³

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Hydrochloric acid
Freshwater	0.036 mg/L
Marine water	0.036 mg/L
Intermittent release	0.045 mg/L
Impact on Sewage Treatment	0.036 mg/L

8.2. Exposure controls

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Engineering controls: None under normal use conditions.

Personal protective equipment:



Eye/face protection: Tight sealing safety goggles.

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.

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 AP-2

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid

Color colorless

Odor characteristic

	Conditions	Method	Remarks
Melting point / melting range			Not established

Boiling point / boiling range	~ 100	°C	
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Flammability Not established

Decomposition temperature not relevant

Flash point Not established

Autoignition temperature None known

Lower explosive limit not relevant

Upper explosion limit not relevant

Vapor pressure Not established

Density	~ 1.150	g/cm ³	20 °C
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Water solubility			Miscible
pH	1	20 °C	
pH (as aqueous solution)	1 - 1.6	20 °C	solution (1 %)
Partition coefficient			Not established
Kinematic viscosity			Not applicable
Odor threshold			Not established
Relative density			Not established
Evaporation rate			Not established
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
Softening point	No information available
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.

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10.5. Incompatible materials

Incompatible materials: Oxidizing agent. Strong acids. Strong bases.

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. May cause irritation of respiratory tract.
- Eye contact: Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
- Skin contact: Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
- Ingestion: Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

Numerical measures of toxicity:

Acute toxicity: No information available

Component Information:

Chemical name	Parameters	Species	Effective dose	Method
Hydrochloric acid 7647-01-0	Dermal LD50		> 5010 mg/kg	

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

- Skin corrosion/irritation: Irritating to skin.
- Serious eye damage/eye irritation: Causes burns. Risk of serious damage to eyes.
- Respiratory or skin sensitization: No information available.
- Germ cell mutagenicity: No information available.
- Carcinogenicity: No information available.

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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

12.1. Toxicity

Ecotoxicity: The environmental impact of this product has not been fully investigated.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Hydrochloric acid 7647-01-0	LC50	Lepomis macrochirus	3.25 mg/l	96 h	

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Hydrochloric acid 7647-01-0	EC50	Daphnia magna	4.92 mg/l	48 h	

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Hydrochloric acid 7647-01-0	EC50	activated sludge	0.23 mg/L		

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Hydrochloric acid 7647-01-0			No		

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12.3. Bioaccumulative potential

Bioaccumulation: No information available

12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

Chemical name	PBT and vPvB assessment
Hydrochloric acid 7647-01-0	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties.

No information available.

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

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.

Waste codes / waste designations according to EWC / AVV: 06 01 02* (Hydrochloric acid)

SECTION 14: Transport information

14.1. UN number

ADR: UN1789
RID: UN1789
IMDG: UN1789
IATA: UN1789

14.2 UN proper shipping name

ADR: HYDROCHLORIC ACID SOLUTION
UN1789, HYDROCHLORIC ACID SOLUTION, 8, III

RID: HYDROCHLORIC ACID SOLUTION
UN1789, HYDROCHLORIC ACID SOLUTION, 8, III

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IMDG: HYDROCHLORIC ACID SOLUTION
UN1789, HYDROCHLORIC ACID SOLUTION, 8, III

IATA: HYDROCHLORIC ACID SOLUTION
UN1789, HYDROCHLORIC ACID SOLUTION, 8, III

14.3. Transport hazard class(es)

ADR: 8
Hazard label(s) 8
Classification code C1
Hazard identification number 80
(Kemler No.)
Tunnel restriction code (E)
Limited quantity (LQ) 5 L
ADR excepted quantity E1

RID: 8
Labels 8
Classification code C1

IMDG: 8
Hazard label(s) 8
Limited quantity (LQ) 5 L
IMDG Excepted Quantity E1
segregation group segregation group 1 - Acids
EmS-No F-A, S-B

IATA: 8
Hazard label(s) 8
IATA Excepted Quantity E1

14.4. Packing group

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

14.5. Environmental hazards

ADR: Not regulated
RID: Not regulated
IMDG: no marine pollutant
IATA: Not regulated

14.6. Special precautions for user

ADR:
Special Provisions: 520
RID:
Special Provisions: 520
IMDG:
Special Provisions: 223
IATA:
Special Provisions: A3, A803
ERG Code 8L

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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 does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)
- This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants: Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU):

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Hydrochloric acid 7647-01-0	25	250

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

EU - Biocides

volatile organic compounds (VOC) content:

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

National regulations:

Denmark:

Chemical name	Denmark - MAL
Hydrochloric acid 7647-01-0	2900 m ³ /10 g substance MAL factor >=0.4 - 5.0 % by weight [3] >=5.0 % by weight [4]

Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Hydrochloric acid 7647-01-0	1	238

Storage class (TRGS 510): 12 • LGK12 - Non-combustible liquids

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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

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

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

- H290 - May be corrosive to metals
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H335 - May cause respiratory irritation

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 marchandises 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

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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

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	On basis of test data
Serious eye damage/eye irritation	On basis of test data
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

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Corrosive to metals	On basis of test data
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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: 23-Aug-2021

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

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet