

Formic acid 0.1% in water

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



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

1.1. Product identifier

Product form : Mixture
Product name : Water with 0.1% Formic acid
Type of product : Solution

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemical.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ISOLAB GmbH
Bahnhofstrasse 10, D-97877
Wertheim - Germany
T +49 93 42 912 355 - F +49 93 42 912 357
prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Formic acid ... %	(CAS-No.) 64-18-6 (EC-No.) 200-579-1 (EC Index-No.) 607-001-00-0 (REACH-no) 01-2119491174-37	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314

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according to Regulation (EU) 2015/830

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Doc No: SDS-923.048/0



Specific concentration limits:

Name	Product identifier	Specific concentration limits
Formic acid ... %	(CAS-No.) 64-18-6 (EC-No.) 200-579-1 (EC Index-No.) 607-001-00-0 (REACH-no) 01-2119491174-37	(2 =<C < 10) Skin Irrit. 2, H315 (2 =<C < 10) Eye Irrit. 2, H319 (10 =<C < 90) Skin Corr. 1B, H314 (C >= 90) Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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 : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

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Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Formic acid ... % (64-18-6)		
EU	Local name	Formic acid
EU	IOELV TWA (mg/m ³)	9 mg/m ³ (Formic acid; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Formic acid; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Austria	Local name	Ameisensäure
Austria	MAK (mg/m ³)	9 mg/m ³
Austria	MAK (ppm)	5 ppm
Austria	MAK Short time value (mg/m ³)	9 mg/m ³
Austria	MAK Short time value (ppm)	5 ppm
Belgium	Local name	Acide formique # Mierenzuur
Belgium	Limit value (mg/m ³)	9.5 mg/m ³ (Acide formique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Acide formique; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m ³)	19 mg/m ³ (Acide formique; Belgium; Short time value)
Belgium	Short time value (ppm)	10 ppm (Acide formique; Belgium; Short time value)
Bulgaria	Local name	Мравчена киселина
Bulgaria	OEL TWA (mg/m ³)	9 mg/m ³
Bulgaria	OEL TWA (ppm)	5 ppm
Bulgaria	Notes	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)
Croatia	Local name	Mravlja kiselina, > 90%
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	9 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	5 ppm
Croatia	Naznake (HR)	EU** (naznaka da se radi o tvarima za koje su utvrđene indikativne granične vrijednosti izloženosti prema Direktivi 2006/15/ EC (druga lista)); C (nagrizajuće)
Czech Republic	Local name	Kyselina mraven í
Czech Republic	Expoziční limity (PEL) (mg/m ³)	9 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	4.78 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	18 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	9.56 ppm
Denmark	Local name	Myresyre (Methansyre)
Denmark	Grænseværdie (langvarig) (mg/m ³)	9 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	5 ppm
Denmark	Anmærkninger (DK)	E (betyder, at stoffet har en EF-grænseværdi)
Estonia	Local name	Metaanhape (sipelghape)
Estonia	OEL TWA (mg/m ³)	9 mg/m ³
Estonia	OEL TWA (ppm)	5 ppm
Finland	Local name	Muurahaishappo
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Finland	HTP-arvo (8h) (ppm)	3 ppm
Finland	HTP-arvo (15 min)	19 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	10 ppm
France	Local name	Acide formique

Formic acid 0.1% in water

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



Formic acid ... % (64-18-6)		
France	VME (mg/m ³)	9 mg/m ³ (Acide formique; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	VME (ppm)	5 ppm (Acide formique; France; Time-weighted average exposure limit 8 h; VRI: Valeur réglementaire indicative)
France	Note (FR)	Valeurs réglementaires indicatives
Germany	Local name	Ameisensäure
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	9.5 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	5 ppm
Germany	Remark (TRGS 900)	DFG,EU,Y
Greece	OEL TWA (mg/m ³)	9 mg/m ³
Greece	OEL TWA (ppm)	5 ppm
Hungary	Local name	HANGYASAV
Hungary	AK-érték	9 mg/m ³
Hungary	Megjegyzések (HU)	m; l.
Ireland	Local name	Formic acid
Ireland	OEL (8 hours ref) (mg/m ³)	9 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	5 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Acido formico
Italy	OEL TWA (mg/m ³)	9 mg/m ³
Italy	OEL TWA (ppm)	5 ppm
Latvia	Local name	Skudrskābe (metānskābe)
Latvia	OEL TWA (mg/m ³)	9 mg/m ³
Latvia	OEL TWA (ppm)	5 ppm
Lithuania	Local name	Skrudžių rūgštis
Lithuania	IPRV (mg/m ³)	9 mg/m ³
Lithuania	IPRV (ppm)	5 ppm
Luxembourg	Local name	Acide formique
Luxembourg	OEL TWA (mg/m ³)	9 mg/m ³
Luxembourg	OEL TWA (ppm)	5 ppm
Malta	Local name	Formic acid
Malta	OEL TWA (mg/m ³)	9 mg/m ³
Malta	OEL TWA (ppm)	5 ppm
Netherlands	Local name	Mierenzuur
Netherlands	Grenswaarde TGG 8H (mg/m ³)	9 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	5 mg/m ³ (Mierenzuur; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	2.6 ppm (Mierenzuur; Netherlands; Short time value; Public occupational exposure limit value)
Poland	Local name	Kwas mrówkowy
Poland	NDS (mg/m ³)	5 mg/m ³
Poland	NDSch (mg/m ³)	15 mg/m ³
Portugal	Local name	Ácido fórmico
Portugal	OEL TWA (ppm)	5 ppm
Portugal	OEL STEL (ppm)	10 ppm
Romania	Local name	Acid formic
Romania	OEL TWA (mg/m ³)	9 mg/m ³
Romania	OEL TWA (ppm)	5 ppm
Slovakia	Local name	Kyselina mravčia (kyselina metánová)
Slovakia	NPHV (priemerná) (mg/m ³)	9 mg/m ³

Formic acid 0.1% in water

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



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Slovakia	NPHV (priemerná) (ppm)	5 ppm
Slovenia	Local name	mravljična kislina
Slovenia	OEL TWA (mg/m ³)	9 mg/m ³
Slovenia	OEL TWA (ppm)	5 ppm
Spain	Local name	Ácido fórmico
Spain	VLA-ED (mg/m ³)	9 mg/m ³
Spain	VLA-ED (ppm)	5 ppm
Spain	Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tip o=plaguicidas Base de datos de productos fitosanitarios: http://www.magrama.gob.es/agricultura/pags/fitos/regi stro/fichas/pdf/Lista_sa.pdf)
Sweden	Local name	Myrsyra
Sweden	nivågränsvärde (NVG) (mg/m ³)	5 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	3 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	9 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	5 ppm
Sweden	Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
United Kingdom	Local name	Formic acid
United Kingdom	WEL TWA (mg/m ³)	9.6 mg/m ³ Formic acid; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	5 ppm Formic acid; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
Russian Federation	Local name	Метановая кислота+
Russian Federation	OEL Ceiling (mg/m ³)	1 mg/m ³
Russian Federation	Remark (RU)	2 класс опасности - высокоопасное; п (пары и/или газы); + (соединения, при работе с которыми требуется специальная защита кожи и глаз; символ проставлен вслед за наименованием вещества)
Norway	Local name	Maursyre
Norway	Grenseverdier (AN) (mg/m ³)	9 mg/m ³
Norway	Grenseverdier (AN) (ppm)	5 ppm
Norway	Merknader (NO)	E (EU har en veiledende grenseverdi for stoffet)
Switzerland	Local name	Ameisensäure
Switzerland	MAK (mg/m ³)	9.5 mg/m ³
Switzerland	MAK (ppm)	5 ppm
Switzerland	KZGW (mg/m ³)	19 mg/m ³
Switzerland	KZGW (ppm)	10 ppm
Switzerland	Remark (CH)	SSc - Haut & Auge, OAW ^{KT AN} - NIOSH, OSHA
Turkey	Local name	Formik asit

Formic acid 0.1% in water

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



Formic acid ... % (64-18-6)		
Turkey	OEL TWA (mg/m ³)	9 mg/m ³
Turkey	OEL TWA (ppm)	5 ppm
Australia	Local name	Formic acid
Australia	TWA (mg/m ³)	9.4 mg/m ³
Australia	TWA (ppm)	5 ppm
Australia	STEL (mg/m ³)	19 mg/m ³
Australia	STEL (ppm)	10 ppm
USA - ACGIH	Local name	Formic acid
USA - ACGIH	ACGIH TWA (ppm)	5 ppm (Formic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA - ACGIH	ACGIH STEL (ppm)	10 ppm (Formic acid; USA; Short time value; TLV - Adopted Value)
USA - ACGIH	Remark (ACGIH)	URT, eye, & skin irr
USA - OSHA	Local name	Formic acid
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	9 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	5 ppm

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: Almost odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: ≈ 0 °C
Freezing point	: No data available
Boiling point	: ≈ 100 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: ≈ 23 hPa (17 mm Hg)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available

Formic acid 0.1% in water

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



Density	: $\approx 0.99821 \text{ g/cm}^3$ (at 20 °C)
Solubility	: Fully miscible.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Formic acid ... % (64-18-6)	
LD50 oral rat	730 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 oral	> 730 mg/kg bodyweight
LD50 dermal rat	≥ 2000 mg/kg bodyweight (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	7400 mg/l

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Formic acid ... % (64-18-6)	
LC50 fish 1	130 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Danio rerio; Static system; Fresh water; Read-across)
EC50 Daphnia 1	365 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia sp.; Static system; Fresh water; Read-across)
EC50 other aquatic organisms 1	365 mg/l waterflea

Formic acid 0.1% in water

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



Formic acid ... % (64-18-6)	
EC50 other aquatic organisms 2	26.9 mg/l
Threshold limit algae 1	1240 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Read-across)

12.2. Persistence and degradability

Formic acid ... % (64-18-6)	
Persistence and degradability	Readily biodegradable in water. Highly mobile in soil.

12.3. Bioaccumulative potential

Formic acid ... % (64-18-6)	
Log Pow	-2.1 (Experimental value; EU Method A.8: Partition Coefficient; 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Formic acid ... % (64-18-6)	
Log Koc	Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC); <17.8; Experimental value; GLP; log Koc; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC); <1.25; Experimental value; GLP

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

Formic acid 0.1% in water

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 08/05/2017

Doc No: SDS-923.048/0



- Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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Safety Data Sheet

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
EUH210	Safety data sheet available on request

SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product