

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended

FORMIC ACID 30% W/VOL. (S949)

Version 2.0

Print Date 21.02.2025

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

1.1. Product identifier

Trade name : FORMIC ACID 30% W/VOL. (S949)
Substance name : formic acid
Index-No. : 607-001-00-0
CAS-No. : 64-18-6
EC-No. : 200-579-1
EU REACH-Reg. No. : 01-2119491174-37-xxxx

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

Use of the Substance/Mixture : Identified use: See table in front of appendix for a complete overview of identified uses.
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag N.V.
Nijverheidslaan 38
BE 8540 Deerlijk
Telephone : +32 (0)56 77 6944
Telefax : +32 (0)56 77 5711
E-mail address : info@brenntag.be
Responsible/issuing person : Master Data Administration

Company : Brenntag Nederland B.V.
Donker Duyvisweg 44
NL 3316 BM Dordrecht
Telephone : +31 (0)78 65 44 944
Telefax : +31 (0)78 65 44 919
E-mail address : info@brenntag.nl
Responsible/issuing person : Master Data Administration

1.4. Emergency telephone number

Emergency telephone number : Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245
Netherlands: National Poisoning Information Center - Bilthoven
TEL: +31(0) 88 755 8000 (Only for the purpose of informing

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medical personnel in cases of acute intoxications)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Skin corrosion	Category 1B	---	H314
Serious eye damage	Category 1	---	H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health	:	See section 11 for toxicological information.
Physical and chemical hazards	:	See section 9/10 for physicochemical information.
Potential environmental effects	:	See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols	:	
Signal word	:	Danger
Hazard statements	:	H314 Causes severe skin burns and eye damage.
Precautionary statements	:	
Prevention	:	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	:	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304 + P340 + P310 IF INHALED: Remove person to fresh

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		air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Additional Labelling:

|| EUH071 Corrosive to the respiratory tract.

Hazardous components which must be listed on the label:

- formic acid

2.3. Other hazards

|| This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

|| Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

|| Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

|| Chemical nature : Aqueous solution

		Classification (REGULATION (EC) No 1272/2008)		
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements	
formic acid				
Index-No.	: 607-001-00-0	>= 25 - < 30	Flam. Liq.3	H226
CAS-No.	: 64-18-6		Acute Tox.4 Oral	H302
EC-No.	: 200-579-1		Acute Tox.3 Inhalation	H331
EU REACH-	: 01-2119491174-37-xxxx		Skin Corr.1A	H314
Reg. No.			Eye Dam.1	H318
		specific concentration limit	EUH071	

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Skin Corr. 1A; H314

>= 90 %

Skin Corr. 1B; H314

10 - < 90 %

Eye Irrit. 2; H319

2 - < 10 %

Skin Irrit. 2; H315

2 - < 10 %

Acute toxicity estimate

Acute oral toxicity: 730 mg/kg

Acute inhalation toxicity

(vapour): 7,85 mg/l

Note B

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the Notes mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately. If symptoms call a physician.
If inhaled	: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact	: Wash off immediately with soap and plenty of water. Call a physician immediately.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.
Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: Extremely corrosive and destructive to tissue. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. See Section 11 for more detailed information on health effects and symptoms.

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

|| Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

|| Suitable extinguishing media : Water spray, foam, dry powder or CO₂.
 || Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

|| Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
 || Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂), The formation of caustic fumes is possible.

5.3. Advice for firefighters

|| Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
 || Specific extinguishing methods : Control smoke with water spray.
 || Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

|| Personal precautions : Keep away unprotected persons. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

6.2. Environmental precautions

|| Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

6.3. Methods and materials for containment and cleaning up

|| Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

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Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Fire-fighting class : flammable ($55^{\circ}\text{C} \leq \text{Flp} < 100^{\circ}\text{C}$)

Further information on storage conditions : Keep tightly closed in a dry and cool place. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Corrodes base metals. Incompatible with: Hydrogen peroxide alkalis Bases Oxidizing agents

7.3. Specific end use(s)

Specific use(s) : Identified use: See table in front of appendix for a complete overview of identified uses.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Component:	formic acid	CAS-No. 64-18-6
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Acute - systemic effects, Inhalation	:	19 mg/m3
DNEL		
Workers, Acute - local effects, Inhalation	:	19 mg/m3
DNEL		
Workers, Long-term - systemic effects, Inhalation	:	9,5 mg/m3
DNEL		
Workers, Long-term - local effects, Inhalation	:	9,5 mg/m3
DNEL		
Consumers, Acute - systemic effects, Inhalation	:	9,5 mg/m3
DNEL		
Consumers, Acute - local effects, Inhalation	:	9,5 mg/m3
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	3 mg/m3
DNEL		
Consumers, Long-term - local effects, Inhalation	:	3 mg/m3

Predicted No Effect Concentration (PNEC)

Fresh water	:	2 mg/l
Marine water	:	0,2 mg/l
Intermittent releases	:	1 mg/l
Fresh water sediment	:	13,4 mg/kg d.w.
Marine sediment	:	1,34 mg/kg d.w.
Soil	:	1,5 mg/kg d.w.
Sewage treatment plant (STP)	:	7,2 mg/l

Other Occupational Exposure Limit Values

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
5 ppm, 9 mg/m3
Indicative

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Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Time Weighted Average (TWA):
5 ppm, 9,5 mg/m³

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Short Term Exposure Limit (STEL):
10 ppm, 19 mg/m³, (15 minutes)

Netherlands. OELs (binding) per Annex XIII of Working Conditions Regulation, as amended, Short Term Exposure Limit (STEL):
5 mg/m³, (15 minutes)

EU. Indicative Occupational Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended, Time Weighted Average (TWA):
5 ppm, 9 mg/m³
Indicative

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

	Advice : Required, if exposure limit is exceeded (e.g. OEL). Required if vapours or aerosol are released. Recommended Filter type: ABEK-P2-filter In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Equipment should conform to EN 14387
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Hand protection

	Advice : Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.
	Material : polychloroprene Break through time : >= 8 h Glove thickness : 0,5 mm
	Material : butyl-rubber Break through time : >= 8 h

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|| Glove thickness : 0,5 mm

|| Material : Fluorinated rubber
|| Break through time : ≥ 8 h
|| Glove thickness : 0,4 mm

Eye protection

|| Advice : Tightly fitting safety goggles (EN166)
Face-shield

Skin and body protection

|| Protecting Clothes : Acid resistant protective clothing.

Environmental exposure controls

|| General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.
If material reaches soil inform authorities responsible for such cases.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

|| Form : liquid

|| Physical state : liquid

|| Colour : colourless

|| Odour : stinging

|| Odour Threshold : No data available

|| Melting point/ range : No data available

|| Boiling point/boiling range : ca. 100 °C

|| Flammability (solid, gas) : Not applicable

|| Upper explosion limit / Upper flammability limit : 45,5 %(V)
865 mg/m³
applies to anhydrous substance

|| Lower explosion limit / Lower flammability limit : 10 %(V)
190 mg/m³
applies to anhydrous substance

|| Flash point : No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: Decomposes on heating.
Self-Accelerating decomposition temperature (SADT)	: No data available
pH	: 1 - 2 Concentration: 100 % Method: (calculated) (formulated product)
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Dissolution Rate	: No data available
Partition coefficient: n-octanol/water	: log Pow: -1,9 (23 °C) pH: 5 calculated on the pure substance
Dispersion Stability	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: 1,058 g/cm ³ (20 °C) 25% solution
Bulk density	: No data available
Relative vapour density	: No data available
Particle characteristics	
Particle size	: Not applicable

9.2 Other information

Explosives	: Product is not explosive.
Oxidizing properties	: not oxidising

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|| Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

|| Advice : No decomposition if used as directed.

10.2. Chemical stability

|| Advice : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

|| Hazardous reactions : Exothermic reaction with strong bases.

10.4. Conditions to avoid

|| Conditions to avoid : Heat, flames and sparks.
|| Thermal decomposition : Decomposes on heating.

10.5. Incompatible materials

|| Materials to avoid : alkalis, Amines, alkalines, Metals, Peroxides, Oxidizing agents

10.6. Hazardous decomposition products

|| Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as: Carbon oxides

SECTION 11: Toxicological information

11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

Data for the product

Acute toxicity

Oral

|| Acute toxicity estimate : > 2000 mg/kg) (Calculation method)Not classified based on the calculation method according to CLP regulation.

Inhalation

|| Acute toxicity estimate : > 20 mg/l (4 h; vapour) (Calculation method)Not classified based on the calculation method according to CLP regulation.

Dermal

|| No data available

Irritation

Skin

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	Result	:	Classified based on the calculation method according to CLP regulation.
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Eyes

	Result	:	Classified based on the calculation method according to CLP regulation.
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Sensitisation

	Result	:	Not classified based on the calculation method according to CLP regulation.
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CMR effects
CMR Properties

	Carcinogenicity	:	Not classified based on the calculation method according to CLP regulation.
	Mutagenicity	:	Not classified based on the calculation method according to CLP regulation.
	Teratogenicity	:	Not classified based on the calculation method according to CLP regulation.
	Reproductive toxicity	:	Not classified based on the calculation method according to CLP regulation.

Specific Target Organ Toxicity
Single exposure

	Remarks	:	Not classified based on the calculation method according to CLP regulation.
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Repeated exposure

	Remarks	:	Not classified based on the calculation method according to CLP regulation.
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Other toxic properties
Repeated dose toxicity

No data available

Aspiration hazard

	Not applicable,
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Component:	formic acid	CAS-No. 64-18-6
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Acute toxicity
Oral

LD50	:	730 mg/kg (Rat) (OECD Test Guideline 401)
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Inhalation

LC50 : 7,85 mg/l (Rat, male and female; 4 h; vapour) (OECD Test Guideline 403)

Dermal

Study scientifically not justified.

Irritation
Skin

Result : corrosive effects (Rabbit) (OECD Test Guideline 404)

Eyes

Result : corrosive effects (OECD Test Guideline 405)

Sensitisation

Result : not sensitizing (Buehler Test; Guinea pig) (OECD Test Guideline 406)

CMR effects
CMR Properties

Carcinogenicity : Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Not mutagenic in Ames Test

Teratogenicity : Did not show teratogenic effects in animal experiments. Information given is based on data obtained from similar substances.

Reproductive toxicity : Animal testing did not show any effects on fertility. Information given is based on data obtained from similar substances.

Reproductive toxicity

NOAEL : 676 mg/kg
Parent

NOAEL : 676 mg/kg
F1

(Rat, male)(Oral)(OECD Test Guideline 416)Fertility and developmental toxicity tests did not reveal any effect on

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reproduction.

Specific Target Organ Toxicity

Single exposure

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

Repeated exposure

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

Other toxic properties

Aspiration hazard

Not applicable,

Further information

Other relevant toxicity information : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Experience with human exposure : Chronic exposure damages the brain and the central nervous system.,

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component:	formic acid	CAS-No. 64-18-6
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Acute toxicity

Fish

LC50	:	130 mg/l (Brachydanio rerio; 96 h) (static test; OECD Test Guideline 203)Data based on test results or data from a comparable product.
LC50	:	68 mg/l (Leuciscus idus (Golden orfe); 96 h) (static test; DIN 38412)

Toxicity to daphnia and other aquatic invertebrates

EC50	:	365 mg/l (Daphnia magna; 48 h) (static test; OECD Test Guideline 202)Data based on test results or data from a comparable product.
EC50	:	32,19 mg/l (Daphnia magna; 48 h) (static test)

algae

EC50	:	1,240 mg/l (Scenedesmus capricornutum (fresh water algae); 72 h) (static test; OECD Test Guideline 201)Data based on test results or data from a comparable product.
EC50	:	32,64 mg/l (Scenedesmus subspicatus; 72 h) (static test; End point: Growth rate; DIN 38412)

Bacteria

EC50	:	46,7 mg/l (Pseudomonas putida; 17 h) (DIN 38412)aerobic
EC10	:	72 mg/l (activated sludge; 13 d) aerobic
EC20	:	> 1000 mg/l (activated sludge; 0,5 h) (ISO 8192)aerobic

Chronic toxicity

Aquatic invertebrates

NOEC	:	>= 102 mg/l (Daphnia magna (Water flea); 21 d) (semi-static test; OECD Test Guideline 211)
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12.2. Persistence and degradability

Component:	formic acid	CAS-No. 64-18-6
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Persistence and degradability

Persistence

Result	:	No data available
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Biodegradability

Result : 100 % (aerobic; activated sludge; Related to: Dissolved organic carbon (DOC); Exposure Time: 9 d)(OECD Test Guideline 301E) Readily biodegradable.

12.3. Bioaccumulative potential

Component:	formic acid	CAS-No. 64-18-6
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Bioaccumulation

Result : log Kow -1,9 (23 °C; pH 5)
: Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	formic acid	CAS-No. 64-18-6
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Mobility

Water : The substance will not evaporate into the atmosphere from the water surface.
Soil : Not expected to adsorb on soil.

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component:	formic acid	CAS-No. 64-18-6
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Results of PBT and vPvB assessment

Result : Substance is not persistent, bioaccumulative, and toxic (PBT)., Substance is not very persistent and very bioaccumulative (vPvB).

12.6. Endocrine disrupting properties

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Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Component:	formic acid	CAS-No. 64-18-6
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Biochemical Oxygen Demand (BOD)

Result : 86 mg/g

Chemical Oxygen Demand (COD)

Result : 348 mg/g

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Harmful effects to aquatic organisms due to pH-shift.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

14.1. UN number or ID number

3412

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14.2. UN proper shipping name

ADR	: FORMIC ACID
RID	: FORMIC ACID
IMDG	: FORMIC ACID

14.3. Transport hazard class(es)

ADR-Class (Labels; Classification Code; Hazard Identification Number; Tunnel restriction code)	: 8 8; C3; 80; (E)
RID-Class (Labels; Classification Code; Hazard Identification Number)	: 8 8; C3; 80
IMDG-Class (Labels; EmS)	: 8 8; F-A, S-B

14.4. Packaging group

ADR	: II
RID	: II
IMDG	: II

14.5. Environmental hazards

Environmentally hazardous according to ADR	: no
Environmentally hazardous according to RID	: no
Marine Pollutant according to IMDG-Code	: no

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Data for the product

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EU. REACH, Annex XVII, : Point Nos.: , 3; Listed
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

Point Nos.: , 75; Listed

EU. Directive : ; The substance/mixture does not fall under this legislation.
2012/18/EU (SEVESO
III) on major accident
hazards involving
dangerous substances,
Annex I

Other regulations : SDS updated according to Regulation (EU) 2020/878

Component:	formic acid	CAS-No. 64-18-6
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EU. REACH, Annex XVII, : Point Nos.: , 75; Listed
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

Point Nos.: , 40; Listed
Point Nos.: , 3; Listed

EU. Allowed : Maximum concentration in ready for use preparation: 0,5 %
Preservatives: Annex V, acid 14; All cosmetic products; See the text of the regulation for
Regulation applicable exceptions or provisions.
1223/2009/EC on
Cosmetic Products, as
amended

Notification status formic acid:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-579-1
ENCS (JP)	YES	(2)-670
IECSC	YES	
INSQ	YES	
ISHL (JP)	YES	(2)-670
JEX (JP)	YES	(2)-670
KECI (KR)	YES	KE-17233
NZIOC	YES	HSR000979
ONT INV	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	2915.11
TH INV	YES	55-1-05130
TSCA	YES	
VN INV	YES	

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15.2. Chemical safety assessment

II A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.

Full text of the Notes referred to under section 3.

Note B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: "nitric acid ...%". In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
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Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory

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LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
VN INVL	Vietnam. National Chemical Inventory
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling

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of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information :

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.