

Formic acid-d 95%w in D2O

According to Regulation (EC) No. 1907/2006 (REACH)

Revision: 2023-02-06

Version number: GHS 4.0 Replaces version of: 2023-02-06 (GHS 3)

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

1.1 Product identifier

Identification of the substance Registration number (REACH) CAS number Alternative name(s)

Formic acid-d 95%w in D2O

this information is not available

925-94-0

formic acid-d 95w %, Formic acid, formic acid

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

Relevant identified uses

industrial uses the product is intended for research, analysis and scientific education scientific research and development product and process oriented research and development laboratory and analytical use laboratory chemical

1.3 Details of the supplier of the safety data sheet

Zeochem AG Joweid 5, CH-8630 Rüti Switzerland

Telephone: +41 44 922 93 93 e-Mail: info@zeochem.com / info@zeochem.ch Website: https://www.zeochem.com

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
3.1I	acute toxicity (inhal.)	3	Acute Tox. 3	H331
3.2	skin corrosion/irritation	1A	Skin Corr. 1A	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

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

- Signal word danger

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2.2.1.2 Pictograms

GHS02, GHS05, GHS06						
Hazard statements						
H226	flammable liquid and vapour					
H302	harmful if swallowed					
H314	causes severe skin burns and eye damage					
H331	toxic if inhaled					

	Precautionary statements						
P210	keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking						
P260	do not breathe dust/fume/gas/mist/vapours/spray						
P280	wear protective gloves/protective clothing/eye protection/face protection/hearing protection						
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/doctor						
P370+P378	in case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish						
P403+P233	store in a well-ventilated place. Keep container tightly closed						
P403+P235	store in a well-ventilated place. Keep cool						

- Supplemental hazard information EUH071 Corrosive to the respiratory tract.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\ge 0,1\%$.





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SECTION 3: Composition/information on ingredients

3.1	Substances					
	Name of substance	Formic acid-d 95%w in D2O				
	Identifiers					
	CAS No	925-94-0				
	EC No	213-129-4				
	Purity	≥95 %				

	Impurities and additives, classification acc. to GHS							
	Name of substance	CAS No	EC No	Wt%	Classification acc. to GHS			
	Deuterium oxide	7789-20-0	232-148-9	5				
1								

Specific Conc. Limits	M-Factors	ATE	Exposure route
Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 10 % ≤ C < 90 % Skin Irrit. 2; H315: 2 % ≤ C < 10 % Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 2 % ≤ C < 10 %	-	730 ^{mg} / _{kg} 7.85 ^{mg} / _l /4h	oral inhalation: vapour

CHDO2

 $47 \text{ g}/_{mol}$

Molecular formula

Molar mass

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.





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4.2 Most important symptoms and effects, both acute and delayed Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.





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Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Store in a dry place.

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.





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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Nota- tion	Source
DE	formic acid	64-18-6	MAK	5	9.5	10	19				DFG
DE	formic acid	64-18-6	AGW	5	9.5	10	19			Y	TRGS 900
ES	formic acid	64-18-6	VLA	5	9						INSHT
EU	formic acid	64-18-6	IOELV	5	9						2006/ 15/EC
FR	formic acid	64-18-6	VME	5	9						INRS
IT	formic acid	64-18-6	VLEP	5	9						G.U. n. 218 - Al- legato XXXVIII

Notation

Y

Ceiling-C ceiling value is a limit value above which exposure should not occur

 STEL
 short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

 TWA
 time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours

A time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Human health values

Relevant DNE	Relevant DNELs and other threshold levels						
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time			
DNEL	9.5 mg/m³	human, inhalatory	worker (industry)	chronic - local effects			

Environmental values

Relevant PNECs and other threshold levels						
Endpoint	Threshold level	Organism	Environmental compartment	Exposure time		
PNEC	2 ^{mg} /l	aquatic organisms	freshwater	short-term (single instance)		
PNEC	0.2 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)		
PNEC	7.2 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)		
PNEC	13.4 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)		
PNEC	1.34 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)		





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 Relevant PNECs and other threshold levels

 Endpoint
 Threshold level
 Organism
 Environmental compartment
 Exposure time

 PNEC
 1.5 mg/kg
 terrestrial organisms
 soil
 short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

Nitrile IIR: isobutene-isoprene (butyl) rubber

- Breakthrough times of the glove material

>30 minutes (permeation: level 2)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	clear
Odour	characteristic
Melting point/freezing point	8 °C



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Boiling point or initial boiling point and boiling range	100 – 101 °C
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	not determined
Flash point	49.5 °C at 1,013 hPa (closed cup)
Auto-ignition temperature	528 °C at 1,010 hPa (есна)
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	1.47 ^{mm²} / _s at 20 °C
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	-2.1 (pH value: 7, 23 °С) (ЕСНА)
Soil organic carbon/water (log KOC)	<1.25 (ECHA)

Vapour pressure	42.7 hPa at 20 °C
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Density and/or relative density

Density	1.25 ^g / _{cm³}
Relative vapour density	information on this property is not available

Other information	
Particle characteristics	not relevant (liquid)

Information with regard to physical hazard classes	there is no additional information

9.2





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Other safety characteristics		
Surface tension	71.5 ^{mN} / _m (20 °C) (ECHA)	
Temperature class (EU, acc. to ATEX)	T1 (maximum permissible surface temperature on the equip- ment: 450°C)	

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Oral

Harmful if swallowed. Toxic if inhaled.

- Acute toxicity estimate (ATE)

730^{mg}/_{kg} 7.85^{mg}/_l/4h Inhalation: vapour

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.



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> Respiratory or skin sensitisation Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Corrosive to the respiratory tract.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Biodegradation

The substance is readily biodegradable.

Process of degradability		
Process	Degradation rate	Time
oxygen depletion	15 %	5 d
DOC removal	4 %	6 d

12.3 Bioaccumulative potential

Data are not available.

n-octanol/water (log KOW)	-2.1 (pH value: 7, 23 °С) (ЕСНА)	





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12.4 Mobility in soil

Henry's law constant	0.019 ^{Pa m³} / _{mol} at 25 °C
The Organic Carbon normalised adsorption coefficient	<1.25 (ECHA)

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN UN 1779 IMDG-Code UN 1779 ICAO-TI UN proper shipping name ADR/RID/ADN FORMIC ACID IMDG-Code FORMIC ACID ICAO-TI Formic acid 14.3 Transport hazard class(es) ADR/RID/ADN 8(3)			
ICAO-TI UN 1779 14.2 UN proper shipping name ADR/RID/ADN FORMIC ACID IMDG-Code FORMIC ACID ICAO-TI Formic acid 14.3 Transport hazard class(es) ADR/RID/ADN 8 (3)		ADR/RID/ADN	UN 1779
14.2 UN proper shipping name ADR/RID/ADN FORMIC ACID IMDG-Code FORMIC ACID ICAO-TI Formic acid 14.3 Transport hazard class(es) ADR/RID/ADN 8 (3)		IMDG-Code	UN 1779
ADR/RID/ADN FORMIC ACID IMDG-Code FORMIC ACID ICAO-TI Formic acid 14.3 Transport hazard class(es) ADR/RID/ADN 8 (3)		ICAO-TI	UN 1779
IMDG-Code FORMIC ACID ICAO-TI Formic acid 14.3 Transport hazard class(es) ADR/RID/ADN 8 (3)	14.2	UN proper shipping name	
ICAO-TI Formic acid 14.3 Transport hazard class(es) ADR/RID/ADN 8 (3)		ADR/RID/ADN	FORMIC ACID
14.3 Transport hazard class(es) ADR/RID/ADN 8 (3)		IMDG-Code	FORMIC ACID
ADR/RID/ADN 8 (3)		ICAO-TI	Formic acid
	14.3	Transport hazard class(es)	
IMDG-Code 8 (3)		ADR/RID/ADN	8 (3)
		IMDG-Code	8 (3)



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	ICAO-TI	8 (3)
4.4	Packing group	
	ADR/RID/ADN	II
	IMDG-Code	II
	ICAO-TI	Ш
4.5	Environmental hazards	non-environmentally hazardous acc. to the dar gerous goods regulations
4.6	Special precautions for user	
	Provisions for dangerous goods (ADR) shou	ld be complied within the premises.
4.7	Maritime transport in bulk accordin	g to IMO instruments
	The cargo is not intended to be carried in bu	ulk.
	Information for each of the UN Mod	el Regulations
		ad, rail and inland waterway (ADR/RID/ADN) - Additional
	Classification code	CF1
	Danger label(s)	8+3
	Excepted quantities (EQ)	E2
	Limited quantities (LQ)	1 L
	Transport category (TC)	2
	Tunnel restriction code (TRC)	D/E
	Hazard identification No	83
	International Maritime Dangerous G	Goods Code (IMDG) - Additional information
	Marine pollutant	-
	Danger label(s)	8+3
	Excepted quantities (EQ)	E2
	Limited quantities (LQ)	1 L
	F (2)	F-E, S-C
	EmS	
	Ems Stowage category	A





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International Civil Aviation Organizat	ion (ICAO-IATA/DGR) - Additional information
Danger label(s)	8+3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0,5 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance Name acc. to inventory			No
Formic acid-d 95%w in D2O	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
Formic acid-d 95%w in D2O	flammable / pyrophoric		40
Formic acid-d 95%w in D2O	substances in tattoo inks and permanent make- up		75

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

not listed

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

not listed

Regulation on persistent organic pollutants (POP)

Not listed.

National inventories

Country	Inventory	Status
EU	REACH Reg.	substance is listed
US	TSCA	substance is listed

Legend

REACH Reg. REACH registered substances TSCA Toxic Substance Control Act





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15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
1.1	Identification of the substance: Formic acid-d 95% in D2O	Identification of the substance: Formic acid-d 95%w in D2O	yes
1.1	Alternative name(s): formic acid-d 95 %, Formic acid, formic acid	Alternative name(s): formic acid-d 95w %, Formic acid, formic acid	yes
3.1	Name of substance: Formic acid-d 95% in D2O	Name of substance: Formic acid-d 95%w in D2O	yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
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.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

