Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 03/12/2019 Revision date: 09/04/2025 Supersedes version of: 13/09/2023 Version: 1.3

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

1.1. Product identifier

Product form : Mixture

Name : Decalcifier solution Trade name : Decalcifier solution EC-No. : 200-579-1 CAS-No. : 64-18-6 Product code : DECA-S01 Formula CH2O2

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

No additional information available

1.3. Details of the supplier of the safety data sheet

No additional information available

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 H319

Full text of H and EUH statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)





GHS07

: Warning

Signal word (CLP) Contains : Formic acid 98%

Hazard statements (CLP) : H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/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.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

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2.3. Other hazards

PBT: not relevant - no registration required

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
PBT: not relevant – no registration required	Formaldehyde solution (50-00-0)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Formaldehyde solution (50-00-0)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Formic acid 98%	CAS-No.: 64-18-6 EC-No.: 200-579-1 EC Index-No.: 607-001-00-0 REACH-no: 01-2119491174- 37	40	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318
Formaldehyde solution substance with a Community workplace exposure limit	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 1, H370 STOT SE 3, H335

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Formic acid 98%	CAS-No.: 64-18-6 EC-No.: 200-579-1 EC Index-No.: 607-001-00-0 REACH-no: 01-2119491174- 37	$(2 \le C < 10)$ Eye Irrit. 2; H319 $(2 \le C < 10)$ Skin Irrit. 2; H315 $(10 \le C < 90)$ Skin Corr. 1B; H314 $(90 \le C < 100)$ Skin Corr. 1A; H314
Formaldehyde solution	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5	$(0,2 \le C < 100)$ Skin Sens. 1; H317 $(5 \le C < 25)$ Skin Irrit. 2; H315 $(5 \le C < 25)$ Eye Irrit. 2; H319 $(5 \le C < 100)$ STOT SE 3; H335 $(25 \le C < 100)$ Skin Corr. 1B; H314

Full text of H and EUH statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial

respiration if necessary.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If swallowed, seek medical advice immediately and show this

container or label. Do not induce vomiting.

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

Symptoms/effects after inhalation : Cough.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes eye irritation. Redness.

Symptoms/effects after ingestion : May cause irritation to the digestive tract.

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

Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Corrosive vapours.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not attempt to take action without suitable

protective equipment.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to

prevent migration and entry into sewers or streams.

Methods for cleaning up : Take up liquid spill into absorbent material.

6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

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

smoking. Store in a well-ventilated place. Keep container tightly closed.

Storage temperature : 15 - 25 °C

Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Decalcifier solution (64-18-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	9 mg/m³	
	5 ppm	
Formic acid 98% (64-18-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Formic acid	
IOEL TWA	9 mg/m³	
	5 ppm	
France - Occupational Exposure Limits		
Local name	Acide formique	
VME (OEL TWA)	9 mg/m³	
	5 ppm	
Remark	Valeurs règlementaires indicatives	
Germany - Occupational Exposure Limits (TRGS 900)		
Local name	Ameisensäure	
AGW (OEL TWA)	9,5 mg/m³	
	5 ppm	
Remark	DFG,EU,Y	
Italy - Occupational Exposure Limits		
Local name	Acido formico	
OEL TWA	9 mg/m³	
	5 ppm	
Portugal - Occupational Exposure Limits		
Local name	Ácido fórmico	

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Formic acid 98% (64-18-6)			
OEL TWA	5 ppm		
OEL STEL	10 ppm		
Spain - Occupational Exposure Limits			
Local name	Ácido fórmico		
VLA-ED (OEL TWA)	9 mg/m³		
	5 ppm		
Remark	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?tipo=plaguicidas Base de datos de productos fitosanitarios:		
United Kingdom - Occupational Exposure Limits			
Local name	Formic acid		
WEL TWA (OEL TWA)	9,6 mg/m³		
	5 ppm		
Formaldehyde solution (50-00-0)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Formaldehyde		
IOEL TWA	260 mg/m³		
	0,2 ppm		
IOEL STEL	0,4 ppm		
Remark	skin sensitiser. SCOEL Recommendations (2008/Ongoing)		
France - Occupational Exposure Limits			
Local name	Alcool méthylique (méthanol)		
VME (OEL TWA)	260 mg/m³		
	200 ppm		
VLE (OEL Ceiling/STEL)	1300 mg/m³		
	1000 ppm		
Remark	Valeurs recommandées/admises; substance classée cancérogène de catégorie 2		
Germany - Occupational Exposure Limits (TRGS 90	00)		
Local name	Methanol		
AGW (OEL TWA)	270 mg/m³		
	200 ppm		
Remark	DFG,EU,H,Y		
Italy - Occupational Exposure Limits			
Local name	Metanolo		

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Formaldehyde solution (50-00-0)	
OEL TWA	260 mg/m³
	200 ppm
Portugal - Occupational Exposure Limits	
Local name	Metanol (Álcool metílico)
OEL TWA	200 ppm
OEL STEL	250 ppm
OEL Ceiling	0,3 ppm
Spain - Occupational Exposure Limits	
Local name	Formaldehído
VLA-ED (OEL TWA)	266 mg/m³
	200 ppm
VLA-EC (OEL STEL)	0,37 mg/m³
	0,3 ppm
Remark	Sen (Sensibilizante. Véase Apartado 6), 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?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).
United Kingdom - Occupational Exposure Limits	
Local name	Methanol
WEL TWA (OEL TWA)	266 mg/m³
	200 ppm
WEL STEL	333 mg/m³
	250 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)

DNEL and PNEC

Decalcifier solution (64-18-6)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	19 mg/m³	
Long-term - local effects, inhalation	9,5 mg/m³	
DNEL/DMEL (General population)		
Acute - local effects, inhalation	9,5 mg/m³	
Long-term - local effects, inhalation	3 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater) 2 mg/l		
PNEC aqua (marine water) 0,2 mg/l		
PNEC aqua (intermittent, freshwater)	1 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	13,4 mg/kg dwt	

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ecalcifier solution (64-18-6)	
PNEC sediment (marine water)	1,34 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,5 mg/kg dwt
PNEC (STP) PNEC sewage treatment plant 7,2 mg/l	

8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

Personal protective equipment symbol(s):









Eye and face protection

Eye protection:

Safety glasses

	Eye protection			
Туре		Field of application	Characteristics	Standard
				EN 166

Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Туре	Standard
Protective clothing	

Hand protection:

protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Butyl rubber	6 (> 480 minutes)	0.70 mm		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear safety footwear

Respiratory protection

Respiratory protection:

Wear appropriate mask

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Respiratory protection			
Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds		EN 14387

Environmental exposure controls

Other information:

Wash hands with water as a precaution. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colourless.
Odour : Not available
Odour threshold : Not available

Melting point : 4 °C Decomposition: 'no'

Freezing point : Not available

Boiling point : 100,23 °C Atm. press.: 1013,25 hPa

Flammability : Not available
Lower explosion limit : Not available
Upper explosion limit : Not available

Flash point : 49,5 °C Atm. press.: 1013,25 hPa

Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility : Miscible with water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available

Relative density : 1,2195 Type: 'relative density' Temp.: 20 °C

: Not available

Relative vapour density at 20 °C : Not available Particle characteristics : Not applicable

9.2. Other information

Density

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

May react with aluminium. Reacts vigorously with strong oxidizers and acids.

10.4. Conditions to avoid

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

10.5. Incompatible materials

ZINC POWDER.

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10.6. Hazardous decomposition products

Carbon monoxide.

Germ cell mutagenicity

Decalcifier solution (64-18-6)

NOAEL (chronic, oral, animal/male, 2 years)

Carcinogenicity

SECTION 11: Toxicological information

11.1. Information on hazard	classes as defined in	Population (EC) No.	1272/2008
i i.i. iiiioiiiialioii oii iiazai u	Ciasses as utillieu ii	I REGUIACION (EG) NO	12/2/2000

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

* *	
Decalcifier solution (64-18-6)	
LD50 oral rat	730 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 618 - 863
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	7,85 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Formic acid 98% (64-18-6)	
LD50 oral rat	730 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 618 - 863
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	7,85 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Formaldehyde solution (50-00-0)	
LD50 oral rat	640 mg/kg
LD50 oral	0 (1187 – 2769) mg/kg
LD50 dermal rabbit	17100 nl/kg
LC50 inhalation rat (mg/l)	43700 mg/m³
LC50 inhalation rat (ppm)	< 463 ppm
Skin corrosion/irritation	: Causes skin irritation.
Formic acid 98% (64-18-6)	
рН	< 2,2 (10 g/l H2O sol.)
Formaldehyde solution (50-00-0)	
рН	3 – 4 20 °C
Serious eye damage/irritation	: Causes serious eye irritation.
Formic acid 98% (64-18-6)	
рН	< 2,2 (10 g/l H2O sol.)
Formaldehyde solution (50-00-0)	
рН	3 – 4 20 °C
Respiratory or skin sensitisation	: Not classified

type: toxicity (migrated information)

400 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect

: Not classified

: Not classified

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Formic acid 98% (64-18-6)	
NOAEL (chronic, oral, animal/male, 2 years)	400 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type: toxicity (migrated information)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Formaldehyde solution (50-00-0)	
STOT-single exposure	Causes damage to organs. May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Decalcifier solution (64-18-6)	
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0,244 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Formic acid 98% (64-18-6)	
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0,244 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Aspiration hazard	: Not classified

11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine

disrupting properties

: Not applicable

SECTION 12: Ecological information

12.1. Toxicity

 $\label{prop:lambda} \mbox{Hazardous to the aquatic environment, short-term}$

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

(CHIOTIC)	
Decalcifier solution (64-18-6)	
LC50 - Fish [1]	130 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Daphnia [1]	365 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1240 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Formic acid 98% (64-18-6)	
LC50 - Fish [1]	130 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

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Formic acid 98% (64-18-6)	
EC50 - Daphnia [1]	365 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1240 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	> 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Formaldehyde solution (50-00-0)	
LC50 - Fish [1]	6,7 mg/l Test organisms (species): Morone saxatilis
EC50 - Daphnia [1]	5,8 mg/l Test organisms (species): Daphnia pulex
EC50 72h - Algae [1]	3,48 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	4,89 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	≥ 48 mg/l Test organisms (species): Oryzias latipes Duration: '28 d'

12.2. Persistence and degradability

Decalcifier solution (64-18-6)	
Persistence and degradability	Rapidly degradable
Formic acid 98% (64-18-6)	
Persistence and degradability Rapidly degradable	
Formaldehyde solution (50-00-0)	
Persistence and degradability Rapidly degradable	

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Decalcifier solution (64-18-6)		
PBT: not relevant – no registration required		
Component		
PBT: not relevant – no registration required Formaldehyde solution (50-00-0)		

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: Not applicable.

12.7. Other adverse effects

Other adverse effects : Do not discharge into drains or rivers.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Must follow special treatment according to local regulation.

European List of Waste (LoW) code : 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

14.1. UN number or ID number

 UN-No. (ADR)
 : UN 3412

 UN-No. (IMDG)
 : UN 3412

 UN-No. (IATA)
 : UN 3412

 UN-No. (ADN)
 : UN 3412

 UN-No. (RID)
 : UN 3412

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FORMIC ACID
Proper Shipping Name (IMDG) : FORMIC ACID
Proper Shipping Name (IATA) : Formic acid
Proper Shipping Name (ADN) : FORMIC ACID
Proper Shipping Name (RID) : FORMIC ACID

Transport document description (ADR) (ADR)

: UN 3412 FORMIC ACID (Decalcifier solution), 8, II, (E)

Transport document description (IMDG)

: UN 3412 FORMIC ACID (Decalcifier solution), 8, II

: UN 3412 Formic acid (Decalcifier solution), 8, II

: UN 3412 FORMIC ACID (Decalcifier solution), 8, II

: UN 3412 FORMIC ACID (Decalcifier solution), 8, II

: UN 3412 FORMIC ACID (Decalcifier solution), 8, II

: UN 3412 FORMIC ACID (Decalcifier solution), 8, II

: UN 3412 FORMIC ACID (Decalcifier solution), 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Danger labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8

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Danger labels (ADN) 8

RID

Transport hazard class(es) (RID) : 8 8

Danger labels (RID)



14.4. Packing group

: II Packing group (ADR) : II Packing group (IMDG) Packing group (IATA) : II Packing group (ADN) : II Packing group (RID) : 11

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant No EmS-No. (Fire) F-A EmS-No. (Spillage) : S-B

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C3 Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02 Mixed packing provisions (ADR) : MP15 Portable tank and bulk container instructions (ADR) : T7 Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : L4BN Vehicle for tank carriage : AT Transport category (ADR) : 2 Hazard identification number (Kemler No.) 80

80 3412

Tunnel restriction code (ADR) : E EAC code : •2X

Transport by sea

Orange plates

Limited quantities (IMDG) : 1 L Excepted quantities (IMDG) : E2 : P001 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC02 : T7 Tank instructions (IMDG) : TP2 Tank special provisions (IMDG) Stowage category (IMDG) : A Stowage and handling (IMDG) : SW2

Segregation (IMDG) : SGG1, SG36, SG49

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Properties and observations (IMDG) : Colourless liquid with a pungent odour. Corrosive to most metals. Causes burns to skin,

eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) Y840 PCA limited quantity max net quantity (IATA) 0.5L PCA packing instructions (IATA) 851 PCA max net quantity (IATA) : 1L CAO packing instructions (IATA) : 855 CAO max net quantity (IATA) 30L ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C3
Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C3
Limited quantities (RID) : 1L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02
Mixed packing provisions (RID) : MP15
Portable tank and bulk container instructions (RID) : T7
Portable tank and bulk container special provisions : TP2
(RID)

Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE6

Hazard identification number (RID) : 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	Formic acid 98%
3(b)	Decalcifier solution ; Formic acid 98%
40.	Formic acid 98%

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

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PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

National regulations

France

Occupational diseases		
Code	Description	
RG 43	Diseases caused by formaldehyde and its polymers	
RG 43 BIS	Cancerous conditions caused by formaldehyde	
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide	

Germany

Water hazard class (WGK)

Chemicals Prohibition Ordinance (ChemVerbotsV)

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
: This product is subject to ChemVerbotsV Annex 1 Entry 1. Paragraph 1) Coated and uncoated wood-based materials (chipboard, blockboard, veneer panels, and fibreboard) may not be placed on the market if the equalizing concentration of formaldehyde in the air in a test room exceeds 0.1 ml / cbm (ppm). Paragraph 2) Furniture that contains wood-based materials that do not meet the requirements of Paragraph 1 may not be placed on the market. Paragraph 1 is also deemed to have been fulfilled if the furniture complies with the equalization concentration specified in paragraph 1 during a whole-body test. Paragraph 3) Detergents, cleaning agents and care products with a mass content of more than 0.2%

formaldehyde may not be placed on the market.

Hazardous Incident Ordinance (12. BlmSchV) :

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed

Denmark

Class for fire hazard : Class II-1

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Store unit : 5 liter

Classification remarks : R10 <H315;H319>; Emergency management guidelines for the storage of flammable

liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

The requirements from the Danish Working Environment Authorities regarding work with

carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Muta. 2	Germ cell mutagenicity, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 1	Specific target organ toxicity — single exposure, Category 1	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H226	Flammable liquid and vapour.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	

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Full text of H- and EUH-statements:	
H350	May cause cancer.
H370	Causes damage to organs.

Safety Data Sheet (SDS), EU

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.