

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Date of issue: 07.01.2013 Revision date: 12.09.2023 Supersedes version of: 04.01.2023 Version: 3.4

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : Formaldehyde solution  
Trade name : UN2209 Formaldehyde, solution 37.0-41.0% AGR  
EC Index-No. : 605-001-00-5  
EC-No. : 200-001-8  
CAS-No. : 50-00-0  
Product code : FORM-00A

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category : Laboratory use

**1.2.2. Uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

labbox labware s.l.  
Migjorn, 1  
P.O. Box Barcelona (SPAIN)  
08338 Premia de Dalt – SPAIN  
ES  
T +34 937 07 79 70 - F +34 937 909 532  
[info@labbox.com](mailto:info@labbox.com) - [www.labbox.com](http://www.labbox.com)

**1.4. Emergency telephone number**

Emergency number : +34 937 077 970 ( Technic information.Office hours.) Servicio de Información Toxicológica (Instituto Nacional de Toxicología y Ciencias Forenses) Teléfono: +34 91 5620420.Información en español (24h/365 días). Únicamente con la finalidad de proporcionar respuesta sanitaria en caso de urgencia ( ONLY IN CASE OF EMERGENCY)"

Country	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]**

Acute toxicity (oral), Category 3 H301  
Acute toxicity (dermal), Category 3 H311  
Acute toxicity (inhal.), Category 3 H331  
Skin corrosion/irritation, Category 1B H314  
Serious eye damage/eye irritation, Category 1 H318  
Skin sensitisation, Category 1 H317  
Carcinogenicity, Category 2 H351

Full text of H and EUH statements: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: Formaldehyde; methanol

Hazard statements (CLP)

: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H335 - May cause respiratory irritation.  
H341 - Suspected of causing genetic defects.  
H350 - May cause cancer.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.

### 2.3. Other hazards

PBT: not relevant – no registration required

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

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

## 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]
Formaldehyde	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	30	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44		Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Inhalation:dust,mist), H331 STOT SE 1, H370

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Formaldehyde	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953-20	(0,2 ≤ C < 100) Skin Sens. 1, H317 (5 ≤ C < 100) STOT SE 3, H335 (5 ≤ C < 25) Eye Irrit. 2, H319 (5 ≤ C < 25) Skin Irrit. 2, H315 (25 ≤ C < 100) Skin Corr. 1B, H314
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307-44	(3 ≤ C < 10) STOT SE 2, H371 (10 ≤ C < 100) STOT SE 1, H370

Full text of H and EUH statements: see section 16

## 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. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Call a physician immediately.

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

Symptoms/effects after inhalation	: Toxic if inhaled.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Causes severe burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

### 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	: Water spray. Sand. Carbon dioxide. Foam. Dry powder.
Unsuitable extinguishing media	: Strong water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : fume.

### 5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area.
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

#### 6.4. Reference to other sections

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : fume. Avoid contact with skin and eyes.  
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.  
Special rules on packaging : Store in a closed container. Keep only in original container.

#### 7.3. Specific end use(s)

Laboratory chemicals.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

UN2209 Formaldehyde, solution 37.0-41.0% AGR (50-00-0)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Formaldehyde
IOEL TWA	260 mg/m <sup>3</sup>
IOEL TWA [ppm]	0,2 ppm
IOEL STEL [ppm]	0,4 ppm
Remark	skin sensitiser. SCOEL Recommendations (2008/Ongoing)
<b>France - Occupational Exposure Limits</b>	
Local name	Alcool méthylique (méthanol)
VME (OEL TWA)	260 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	200 ppm
VLE (OEL Ceiling/STEL)	1300 mg/m <sup>3</sup>

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UN2209 Formaldehyde, solution 37.0-41.0% AGR (50-00-0)	
VLE (OEL Ceiling/STEL) [ppm]	1000 ppm
Remark	Valeurs recommandées/admises; substance classée cancérogène de catégorie 2
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Methanol
AGW (OEL TWA) [1]	270 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	200 ppm
Remark	DFG,EU,H,Y
Italy - Occupational Exposure Limits	
Local name	Metanolo
OEL TWA	260 mg/m <sup>3</sup>
OEL TWA [ppm]	200 ppm
Portugal - Occupational Exposure Limits	
Local name	Metanol (Álcool metílico)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	250 ppm
OEL Ceiling [ppm]	0,3 ppm
Spain - Occupational Exposure Limits	
Local name	Formaldehído
VLA-ED (OEL TWA) [1]	266 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	200 ppm
VLA-EC (OEL STEL)	0,37 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	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: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ).
United Kingdom - Occupational Exposure Limits	
Local name	Methanol
WEL TWA [1]	266 mg/m <sup>3</sup>
WEL TWA [2]	200 ppm
WEL STEL	333 mg/m <sup>3</sup>
WEL STEL (ppm)	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)
Formaldehyde (50-00-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Formaldehyde
IOEL TWA [ppm]	0,2 ppm
IOEL STEL [ppm]	0,4 ppm

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Formaldehyde (50-00-0)	
Remark	skin sensitiser. SCOEL Recommendations (2008/Ongoing)
<b>France - Occupational Exposure Limits</b>	
Local name	Aldéhyde formique
VME (OEL TWA) [ppm]	0,5 ppm
VLE (OEL Ceiling/STEL) [ppm]	1 ppm
Remark	Valeurs recommandées/admises; substance classée cancérogène de catégorie 2
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Formaldehyd
AGW (OEL TWA) [1]	0,37 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	0,3 ppm
Remark	AGS,Sh,Y,X
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Formaldeído
OEL Ceiling [ppm]	0,3 ppm
<b>Spain - Occupational Exposure Limits</b>	
Local name	Formaldehído
VLA-EC (OEL STEL)	0,37 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	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: <a href="http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a> ).
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Formaldehyde
WEL TWA [1]	2,5 mg/m <sup>3</sup>
WEL TWA [2]	2 ppm
WEL STEL	2,5 mg/m <sup>3</sup>
WEL STEL (ppm)	2 ppm
<b>methanol (67-56-1)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Methanol
IOEL TWA	260 mg/m <sup>3</sup>
IOEL TWA [ppm]	200 ppm
Remark	skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
<b>France - Occupational Exposure Limits</b>	
Local name	Alcool méthylique (méthanol)
VME (OEL TWA)	260 mg/m <sup>3</sup>

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<b>methanol (67-56-1)</b>	
VME (OEL TWA) [ppm]	200 ppm
VLE (OEL Ceiling/STEL)	1300 mg/m <sup>3</sup>
VLE (OEL Ceiling/STEL) [ppm]	1000 ppm
Remark	VME réglementaires contraignantes; la VLE n'est pas réglementaire et provient d'une circulaire du ministère chargé du travail; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Methanol
AGW (OEL TWA) [1]	270 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	200 ppm
Limitation of exposure peaks	4(II)
Remark	DFG,EU,H,Y
Regulatory reference	TRGS900
<b>Italy - Occupational Exposure Limits</b>	
Local name	Metanolo
OEL TWA	260 mg/m <sup>3</sup>
OEL TWA [ppm]	200 ppm
Remark	pelle
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Metanol (Álcool metílico)
OEL TWA [ppm]	200 ppm
OEL STEL [ppm]	250 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Spain - Occupational Exposure Limits</b>	
Local name	Metanol (Alcohol metílico)
VLA-ED (OEL TWA) [1]	266 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	200 ppm
Remark	Vía dérmica (Indica que, en las exposiciones a esta sustancia, la aportación por la vía cutánea puede resultar significativa para el contenido corporal total si no se adoptan medidas para prevenir la absorción. En estas situaciones, es aconsejable la utilización del control biológico para poder cuantificar la cantidad global absorbida del contaminante. Para más información véase el Apartado 5 de este documento), VLB® (Agente químico que tiene Valor Límite Biológico específico en este documento), 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).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT

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methanol (67-56-1)	
<b>Spain - Biological limit values</b>	
BLV	15 mg/l Parámetro: Metanol - Medio: Orina - Momento de muestreo: Final de la jornada laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Methanol
WEL TWA [1]	266 mg/m <sup>3</sup>
WEL TWA [2]	200 ppm
WEL STEL	333 mg/m <sup>3</sup>
WEL STEL (ppm)	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)
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

UN2209 Formaldehyde, solution 37.0-41.0% AGR (50-00-0)	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	1 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	240 mg/kg bodyweight/day
Long-term - local effects, dermal	37 µg/cm <sup>2</sup>
Long-term - systemic effects, inhalation	9 mg/m <sup>3</sup>
Long-term - local effects, inhalation	0,5 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	4,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,2 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	102 mg/kg bodyweight/day
Long-term - local effects, dermal	12 µg/cm <sup>2</sup>
Long-term - local effects, inhalation	0,1 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,47 mg/l
PNEC aqua (marine water)	0,47 mg/l
PNEC aqua (intermittent, freshwater)	4,7 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	2,44 mg/kg dwt
PNEC sediment (marine water)	2,44 mg/kg dwt



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<b>PNEC (Soil)</b>	
PNEC soil	0,21 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	0,19 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. EN 374.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Type	Standard
Protective clothing	

##### Hand protection:

Protective gloves against chemicals (EN 374)

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask

Respiratory protection			
Device	Filter type	Condition	Standard
	Filter B (grey)		

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: Pungent.
Odour threshold	: Not available
Melting point	: -92 °C
Freezing point	: Not available
Boiling point	: 97 °C
Flammability	: Not available
Lower explosion limit	: 7 vol %
Upper explosion limit	: 73 vol %
Flash point	: 56 – 85 °C
Auto-ignition temperature	: 430 °C
Decomposition temperature	: Not available
pH	: 3 – 4 20 °C
Viscosity, kinematic	: Not available
Solubility	: Soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 2,26 – 2,66 hPa 20 °C
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 1,08
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

Explosion limits : 0 – 0 vol %

##### 9.2.2. Other safety characteristics

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

No additional information available

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. heat sources.

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

No additional information available

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### SECTION 11: Toxicological information

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

Acute toxicity (oral) : Toxic if swallowed.  
Acute toxicity (dermal) : Toxic in contact with skin.  
Acute toxicity (inhalation) : Toxic if inhaled.

UN2209 Formaldehyde, solution 37.0-41.0% AGR (50-00-0)	
LD50 oral rat	640 mg/kg
LD50 oral	0 (1187 – 2769) mg/kg
LD50 dermal rabbit	17100 ml/kg
LC50 inhalation rat (mg/l)	43700 mg/m <sup>3</sup>
LC50 inhalation rat (ppm)	< 463 ppm
ATE CLP (vapours)	0,578 mg/l/4h
ATE CLP (dust,mist)	0,578 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.  
pH: 3 – 4 20 °C  
Serious eye damage/irritation : Causes serious eye damage.  
pH: 3 – 4 20 °C  
Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer.  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified

methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.

STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

methanol (67-56-1)	
Viscosity, kinematic	0,754 mm <sup>2</sup> /s

#### 11.2. Information on other hazards

##### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Not applicable

##### 11.2.2. Other information

No additional information available

### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

UN2209 Formaldehyde, solution 37.0-41.0% AGR (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

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EC50 72h - Algae [1]	3,48 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )
EC50 72h - Algae [2]	4,89 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )
NOEC chronic fish	≥ 48 mg/l Test organisms (species): <i>Oryzias latipes</i> Duration: '28 d'

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### methanol (67-56-1)

Partition coefficient n-octanol/water (Log Pow)	-0,77
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### UN2209 Formaldehyde, solution 37.0-41.0% AGR (50-00-0)

PBT: not relevant – no registration required

### 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.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Must follow special treatment according to local regulation.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

UN-No. (ADR) : UN 2209  
UN-No. (IMDG) : UN 2209  
UN-No. (IATA) : UN 2209  
UN-No. (ADN) : UN 2209  
UN-No. (RID) : UN 2209

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : FORMALDEHYDE SOLUTION  
Proper Shipping Name (IMDG) : FORMALDEHYDE SOLUTION  
Proper Shipping Name (IATA) : Formaldehyde solution  
Proper Shipping Name (ADN) : FORMALDEHYDE SOLUTION  
Proper Shipping Name (RID) : FORMALDEHYDE SOLUTION

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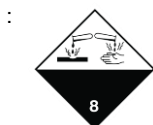
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Transport document description (ADR)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (IATA)	: UN 2209 Formaldehyde solution, 8, III
Transport document description (ADN)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III
Transport document description (RID)	: UN 2209 FORMALDEHYDE SOLUTION, 8, III

### 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
Danger labels (ADN)	: 8



#### RID

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



### 14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III

### 14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

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### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: C9
Special provisions (ADR)	: 533
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



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

#### Transport by sea

Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless, clear liquid, with a suffocating pungent odour. Usually stabilized with methyl alcohol. Miscible with water. Causes burns to skin, eyes and mucous membranes.

#### Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 8i

#### Inland waterway transport

Classification code (ADN)	: C9
Special provisions (ADN)	: 533
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

#### Rail transport

Classification code (RID)	: C9
Special provisions (RID)	: 533
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001

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Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

###### EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3.	UN2209 Formaldehyde, solution 37.0-41.0% AGR ; Formaldehyde ; methanol
3(a)	methanol
3(b)	UN2209 Formaldehyde, solution 37.0-41.0% AGR ; Formaldehyde ; methanol
40.	methanol

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

##### 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 (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

##### 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.

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### 15.1.2. 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) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
- Chemicals Prohibition Ordinance (ChemVerbotsV) : 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.  
This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : Formaldehyde is 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 : methanol is listed

#### Denmark

- Class for fire hazard : Class III-1
- Store unit : 50 liter
- Classification remarks : Flammable according to the Danish Ministry of Justice; 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



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### 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:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H301	Toxic 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.
H350	May cause cancer.
H351	Suspected of causing cancer.
H370	Causes damage to organs.
H371	May cause damage to organs.
Muta. 2	Germ cell mutagenicity, Category 2
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 2	Specific target organ toxicity — Single exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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.