

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

DES-F (BE2024-0021) - CAN 20KG

Version 1.0

Print Date 15.09.2026

Revision date / valid from 03.09.2026

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

1.1. Product identifier

Trade name : DES-F (BE2024-0021) - CAN 20KG

UFI : W3UP-E15T-T007-8C89

UFI code notified in : Belgium, Germany, Denmark, Estonia, Spain, Croatia, Ireland, Iceland, Lithuania, Luxembourg, Latvia, Malta, Netherlands, Norway, Portugal, Sweden

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

Use of the Substance/Mixture : Biocidal product, Professional use, Veterinary hygiene biocidal products

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
Acute toxicity (Oral)	Category 3	---	H301
Acute toxicity (Dermal)	Category 3	---	H311
Skin corrosion	Sub-category 1B	---	H314
Skin sensitisation	Category 1	---	H317
Serious eye damage	Category 1	---	H318
Acute toxicity (Inhalation)	Category 3	---	H331
Specific target organ toxicity - single exposure	Category 3	Respiratory system	H335
Germ cell mutagenicity	Category 2	---	H341
Carcinogenicity	Category 1B	---	H350

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

Most important adverse effects

Human Health : No further information available.

Physical and chemical hazards : No further information available.

Potential environmental effects : No further information available.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :   

Signal word : Danger

Hazard statements : H301 Toxic if swallowed.
H311 Toxic in contact with skin.

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		H314 H317 H331 H341 H350	Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if inhaled. Suspected of causing genetic defects. May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Precautionary statements			
Prevention	:	P201 P202 P260 P270 P280	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe gas. Do not eat, drink or smoke when using this product. Wear protective clothing (DIN EN 374)/ eye protection/ face protection(DIN EN 14605).
Response	:	P301 + P330 + P331 P302 + P352 P303 + P361 + P353 P304 + P340 P305 + P351 + P338 P310 P333 + P313	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water/soap. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. If skin irritation or rash occurs: Get medical advice/ attention.
Storage	:	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P405 P501	Store locked up. Dispose of contents/container according to hazardous waste regulation.

Additional Labelling:

EUH071 Corrosive to the respiratory tract.

Hazardous components which must be listed on the label:

- formaldehyde
- methanol

2.3. Other hazards

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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

3.2. Mixtures

		Classification (REGULATION (EC) No 1272/2008)	
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
formaldehyde			
Index-No. : 605-001-00-5	>= 30 - < 50	Acute Tox.4 Oral	H302
CAS-No. : 50-00-0		Acute Tox.2 Inhalation	H330
EC-No. : 200-001-8		Skin Corr.1B	H314
EU REACH- : 01-2119488953-20-xxxx		Skin Sens.1A	H317
Reg. No.		Muta.2	H341
		Carc.1B	H350
		specific concentration limit	EUH071
		Skin Irrit. 2; H315	
		5 - < 25 %	
		Eye Irrit. 2; H319	
		5 - < 25 %	
		Skin Corr. 1B; H314	
		>= 25 %	
		STOT SE 3; H335	
	>= 5 %		
	Acute toxicity estimate		
	Acute oral toxicity: 640 mg/kg		
	Acute inhalation toxicity		
	(vapour): 0,5 mg/l		
	Note B		
	Note D		
	Note F		
methanol			
Index-No. : 603-001-00-X	>= 3 - < 10	Flam. Liq.2	H225
CAS-No. : 67-56-1		Acute Tox.3 Inhalation	H331
EC-No. : 200-659-6		Acute Tox.3 Dermal	H311
EU REACH- : 01-2119433307-44-xxxx		Acute Tox.3 Oral	H301
Reg. No.		STOT SE1	H370
		specific concentration limit	
		STOT SE 2; H371	
		3 - < 10 %	
		STOT SE 1; H370	
	>= 10 %		

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Acute toxicity estimate
 Acute oral toxicity: 100 mg/kg
 Acute inhalation toxicity
 (vapour): 3 mg/l
 Acute dermal toxicity: 300
 mg/kg

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	: First aider needs to protect himself. Remove from exposure, lie down. Take off all contaminated clothing immediately.
If inhaled	: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Oxygen, if needed. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. 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.

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. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. May cause damage to organs. Causes severe burns. Corrosive to the respiratory tract.

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

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Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.
 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. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

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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 feeding stuffs. 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. Keep working clothes separately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons.

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

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 feeding stuffs.

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component:	formaldehyde	CAS-No. 50-00-0
EU Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)		

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DNEL		
Workers, Long-term - systemic effects, Inhalation	:	9 mg/m3
DNEL		
Workers, Long-term - local effects, Inhalation	:	0,375 mg/m3
DNEL		
Workers, Acute - local effects, Inhalation	:	0,75 mg/m3
DNEL		
Workers, Long-term - systemic effects, Dermal	:	240 mg/kg bw/day
DNEL		
Workers, Long-term - local effects, Dermal	:	0,037 mg/cm2
DNEL		
Consumers, Long-term - systemic effects, Inhalation	:	3,2 mg/m3
DNEL		
Consumers, Long-term - local effects, Inhalation	:	0,1 mg/m3
DNEL		
Consumers, Long-term - systemic effects, Dermal	:	102 mg/kg bw/day
DNEL		
Consumers, Long-term - local effects, Dermal	:	0,012 mg/cm2
DNEL		
Consumers, Long-term - systemic effects, Oral	:	4,1 mg/kg bw/day

EU Predicted No Effect Concentration (PNEC)

Fresh water	:
No hazard identified	
Marine water	:
No hazard identified	
Sewage treatment plant (STP)	:
no emission to STP expected	
Fresh water sediment	:
no exposure of sediment expected	
Marine sediment	:
no exposure of sediment expected	
Soil	:
no exposure of soil expected	
Secondary poisoning	:

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no potential for bioaccumulation

Other Occupational Exposure Limit Values

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Ceiling Limit Value:
0,3 ppm, 0,38 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,6 ppm

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Time Weighted Average (TWA):
0,3 ppm, 0,37 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,74 mg/m³

Netherlands. OELs (binding) per Annex XIII of Working Conditions Regulation, as amended, Time Weighted Average (TWA):
0,12 ppm, 0,15 mg/m³
Section B: List of Carcinogens

Netherlands. OELs (binding) per Annex XIII of Working Conditions Regulation, as amended, Short Term Exposure Limit (STEL):
0,41 ppm, 0,5 mg/m³, (15 minutes)
Section B: List of Carcinogens

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,6 ppm

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Time Weighted Average (TWA):
0,3 ppm, 0,37 mg/m³

EU. OELs for Certain Carcinogens, Mutagens, Reprotoxins: Annex III, Directive 2004/37/EC (CMRD), as amended, Short Term Exposure Limit (STEL):
0,74 mg/m³

Component:	methanol	CAS-No. 67-56-1
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EU Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, short-term, Long-term - systemic effects, Skin contact : 20 mg/kg bw/day

DNEL

Workers, short-term, Long-term - systemic effects, Inhalation : 130 mg/m³

DNEL

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Workers, short-term, Long-term - local effects, Inhalation : 130 mg/m³

DNEL

Consumers, short-term, Long-term - systemic effects, Skin contact : 4 mg/kg bw/day

DNEL

Consumers, short-term, Long-term - systemic effects, Inhalation : 26 mg/m³

DNEL

Consumers, short-term, Long-term - systemic effects, Ingestion : 4 mg/kg bw/day

DNEL

Consumers, short-term, Long-term - local effects, Inhalation : 26 mg/m³

EU Predicted No Effect Concentration (PNEC)

Fresh water : 20 mg/l

Marine water : 2,08 mg/l

Sewage treatment plant (STP) : 100 mg/l

Marine sediment : 7,7 mg/kg dry weight (d.w.)

Soil : 100 mg/kg ww

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):
200 ppm, 260 mg/m³
Indicative

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):
200 ppm, 266 mg/m³

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Skin designation:
Can be absorbed through the skin.

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):
250 ppm, 333 mg/m³, (15 minutes)

Netherlands. OELs (binding) per Annex XIII of Working Conditions Regulation, as amended, Skin designation:
Can be absorbed through the skin.

Netherlands. OELs (binding) per Annex XIII of Working Conditions Regulation, as amended, Time Weighted Average (TWA):

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133 mg/m³

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):
200 ppm, 260 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 : In case of brief exposure or low pollution use breathing filter apparatus.
In case of intensive or longer exposure use self-contained breathing apparatus.
Respiratory protection complying with EN 141.

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.

Eye protection

Advice : Safety goggles
Face-shield

Skin and body protection

Protecting Clothes : Impervious clothing
Chemical resistant apron

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

DES-F (BE2024-0021) - CAN 20KG**9.1 Information on basic physical and chemical properties**

Form	:	No data available
Physical state	:	liquid
Colour	:	colourless clear
Odour	:	formaldehyde-like, strong
Odour Threshold	:	< 0,1 ppm
Freezing point/range	:	> -9 °C
Boiling point/boiling range	:	95 - 96 °C (1013,0 hPa)
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	>= 64 °C
Auto-ignition temperature	:	ca. 395 °C
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	2,8 - 4,0 Concentration: 100 %
Viscosity		
Viscosity, dynamic	:	2,2 mPa.s (20 °C)
Viscosity, kinematic	:	< 3 mm ² /s (20 °C)
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 0,35 (20 °C) Formaldehyde log Pow: -0,77 (20 °C) Methanol
Dispersion Stability	:	No data available
Vapour pressure	:	not determined

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Relative density	: Not determined.
Density	: 1,090 - 1,100 g/cm ³
Bulk density	: No data available
Relative vapour density	: No data available
Particle characteristics	
Particle size	: Not applicable

9.2 Other information

Explosives	: Not applicable
Oxidizing properties	: not oxidising

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice	: No specific test data related to reactivity available for this product or its ingredients.
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10.2. Chemical stability

Advice	: Polymerizes at temperatures below the recommended storage temperature. Polymer precipitation can occur when cooling.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Exothermic reaction with: Amines Ammonia Phenol
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10.4. Conditions to avoid

Conditions to avoid	: No specific data.
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10.5. Incompatible materials

Materials to avoid	: Amines, Ammonia, Phenol
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10.6. Hazardous decomposition products

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Data for the product****Acute toxicity**

DES-F (BE2024-0021) - CAN 20KG**Oral**

Acute toxicity estimate : 785,08 mg/kg) (Calculation method) Harmful if swallowed.

Inhalation

Acute toxicity estimate : 1,28 mg/l (4 h; vapour) (Calculation method) Toxic if inhaled.

Dermal

Acute toxicity estimate : > 2000 mg/kg) (Calculation method) Based on available data, the classification criteria are not met.

Irritation**Skin**

Result : Causes severe skin burns and eye damage.

Eyes

Result : Causes serious eye damage.

Sensitisation

Result : May cause an allergic skin reaction.

CMR effects**CMR Properties**

Carcinogenicity : May cause cancer.
Mutagenicity : Suspected of causing genetic defects.
Teratogenicity : Based on available data, the classification criteria are not met.
Reproductive toxicity : No data available

Specific Target Organ Toxicity**Single exposure**

Remarks : May cause damage to organs.

Repeated exposure

Remarks : Based on available data, the classification criteria are not met.

Other toxic properties**Repeated dose toxicity**

No data available

Aspiration hazard

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Based on available data, the classification criteria are not met.,

Component:	formaldehyde	CAS-No. 50-00-0
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Acute toxicity**Oral**

LD50 : 640 mg/kg (Rat, male) (OECD Test Guideline 401) in 2 ÷ 4% solution

Inhalation

LC50 : 463 ppm (Rat, male and female) (OECD Test Guideline 403)

Dermal

study scientifically not necessary

Irritation**Skin**

Result : Corrosive (Rabbit; Causes severe skin burns and eye damage.) (OECD Test Guideline 404)

Eyes

Result : Risk of serious damage to eyes.

Sensitisation

Result : The product is a skin sensitiser, sub-category 1B. (Local lymph node assay (LLNA); Mouse)
The product is a skin sensitiser, sub-category 1B. (Buehler Test; Guinea pig)

CMR effects**Carcinogenicity**

(positive, Humans, male and female; Test substance: Formaldehyde)(Target Organs: Respiratory system)(inhalation (vapour); 10 years)

CMR Properties

Carcinogenicity : May cause cancer.
Mutagenicity : Suspected of causing genetic defects.

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Teratogenicity : It is not considered teratogenic.
Reproductive toxicity : No human reproductive toxicity data available.

Genotoxicity in vitro

Result : positive (DNA Repair; Test substance: Formaldehyde)

Genotoxicity in vivo

Result : (DNA adduct formation; Rat) (inhalation (vapour); 0.7 - 15.2)

Teratogenicity

NOAEC : 5 ppm
Maternal NOAEC : 10 ppm
Embryo-Fetal : (Prenatal Developmental Toxicity Study; Rat, Sprague-Dawley)(inhalation (gas); 2 - 10 ppm; 6 h)(OECD Test Guideline 414)negative

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**

No aspiration toxicity classification,

Component: **methanol** **CAS-No. 67-56-1**

Acute toxicity**Oral**

Toxic if swallowed.

Inhalation

Toxic if inhaled.

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Toxic in contact with skin.

Irritation**Skin**

Result : No skin irritation (Rabbit) (BASF - Test)

Eyes

Result : No eye irritation (Rabbit) (OECD Test Guideline 405)

Sensitisation

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

CMR effects**CMR Properties**

Carcinogenicity : Animal testing did not show any carcinogenic effects.
Mutagenicity : In vitro tests did not show mutagenic effects
In vivo tests did not show mutagenic effects
Teratogenicity : Not classified due to data which are conclusive although insufficient
Reproductive toxicity : Not classified due to data which are conclusive although insufficient

Genotoxicity in vivo

Result : negative (in vivo assay; Mammalian-Animal)

Teratogenicity

NOAEL : 1,3 mg/L
Teratog.
(Rat)
NOAEL : 2,39 mg/L
Teratog.
(Monkey)

Reproductive toxicity

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NOAEL : 1,33 mg/L
Parent
(Rat)

Specific Target Organ Toxicity**Single exposure**

Remarks : Target Organs: Eyes, Central nervous system Causes damage to organs. Experience with human exposure

Repeated exposure

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

Other toxic properties**Repeated dose toxicity**

LOAEL : 2340 mg/kg bw/day
(Monkey, male)(Oral) (No guideline available); Subacute toxicity
NOAEL : 1,06 mg/l
(Rat)(Inhalation)

Aspiration hazard

No aspiration toxicity classification,

Further information

Other relevant toxicity information : Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Danger by skin absorption.
Effects due to ingestion may include:
Risk of blindness!
Vomiting
Nausea
Coma

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
Endocrine Disrupting Properties

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Component:	formaldehyde	CAS-No. 50-00-0
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Endocrine disrupting properties

Assessment Endocrine Disrupting Properties	:	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.
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Component:	methanol	CAS-No. 67-56-1
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Endocrine disrupting properties

Assessment Endocrine Disrupting Properties	:	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.
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SECTION 12: Ecological information

12.1. Toxicity

Data for the product

Acute toxicity

Short-term (acute) aquatic hazard

Result	:	Based on available data, the classification criteria are not met.
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Chronic toxicity

Long-term (chronic) aquatic hazard

Result	:	Based on available data, the classification criteria are not met.
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Component:	formaldehyde	CAS-No. 50-00-0
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Acute toxicity

Fish

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LC50 : 6,18 mg/l (Morone saxatilis (striped bass); 96 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 5,8 mg/l (Daphnia pulex (Water flea); 48 h)

algae

EC50 : 3,48 mg/l (Desmodesmus subspicatus (green algae); 72 h)

Bacteria

EC50 : 20 mg/l (Microorganisms)

EC50 : 74,7 mg/l (sediment organisms; 3 min)

Chronic toxicity

Fish

LC50 : 6,9 mg/l (Danio rerio (zebra fish); 6 d)

NOEC : 48 mg/l (Oryzias latipes (Japanese medaka); 28 d)

Aquatic invertebrates

NOEC : > 6,4 mg/l (Daphnia magna (Water flea); 21 d)

Component:	methanol	CAS-No. 67-56-1
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Acute toxicity

Fish

LC50 : 15.400 mg/l (Lepomis macrochirus; 96 h) (flow-through test; EPA 600/3-75/009)

Toxicity to daphnia and other aquatic invertebrates

EC50 : > 1.000 mg/l (Daphnia magna (Water flea); 48 h) (OECD Test Guideline 202)

algae

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EC50 : 22000 mg/l (Pseudokirchneriella subcapitata (green algae); 96 h)

Bacteria

EC50 : 20000 mg/l (Bacteria; 15 h)
IC50 : 1000 mg/l (Bacteria; 24 h)
IC50 : > 1000 mg/l (activated sludge; 3 h)

Chronic toxicity**Fish**

NOEC : 7900 mg/l (Fish; 200 h)

12.2. Persistence and degradability**Data for the product****Persistence and degradability****Biodegradability**

Result : Readily biodegradable

Component: formaldehyde **CAS-No.** 50-00-0

Persistence and degradability**Persistence**

Result : (Related to: Hydrolysis) The hydrolysis of the substance is not expected due to its structure.

Biodegradability

Result : 91 % (Related to: Total organic carbon (TOC); Exposure Time: 14 d)(OECD Test Guideline 301C)Biodegradable

Component: methanol **CAS-No.** 67-56-1

Persistence and degradability**Persistence**

Result : study scientifically unjustified

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Biodegradability

Result	:	97 % (Marine water; Exposure Time: 20 d)	Readily biodegradable.
Result	:	95 % (Fresh water; Exposure Time: 20 d)	
Result	:	83 - 91 % (Fresh water sediment; Exposure Time: 3 d)	
Result	:	71,5 % (Fresh water; Exposure Time: 5 d)	
Result	:	69 % (Marine water; Exposure Time: 5 d)	
Result	:	46,3 - 53,5 % (Soil; Exposure Time: 5 d)	

12.3. Bioaccumulative potential

Data for the product

Bioaccumulation

Result	:	The product has low potential bioaccumulation.
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Component:	formaldehyde	CAS-No. 50-00-0
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Bioaccumulation

Result	:	log Kow 0,35 (ca. 25 °C)
	:	Low bioaccumulative potential

Component:	methanol	CAS-No. 67-56-1
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Bioaccumulation

Result	:	log Kow -0,77
	:	BCF: < 10; The product has low potential bioaccumulation.

12.4. Mobility in soil

Data for the product

Mobility

Result	:	No data available
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Component:	formaldehyde	CAS-No. 50-00-0
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Mobility

Water	:	The product is water soluble.
Soil	:	Adsorption to solid soil phase is not expected.
Air	:	Volatile.

Component:	methanol	CAS-No. 67-56-1
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Mobility

: The product is mobile in water environment.

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:	formaldehyde	CAS-No. 50-00-0
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Results of PBT and vPvB assessment

Result : Not persistent, bioaccumulative, and toxic (PBT)., Not very persistent and very bioaccumulative (vPvB).

Component:	methanol	CAS-No. 67-56-1
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Results of PBT and vPvB assessment

Result : Not persistent, bioaccumulative, and toxic (PBT)., Not very persistent and very bioaccumulative (vPvB).

12.6. Endocrine disrupting properties

Data for the product

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.

Endocrine Disrupting Properties

Component:	formaldehyde	CAS-No. 50-00-0
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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.

Endocrine Disrupting Properties

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Component:	methanol	CAS-No. 67-56-1
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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.

12.7. Other adverse effects

Data for the product
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.

Component:	formaldehyde	CAS-No. 50-00-0
Additional ecological information		

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

Component:	methanol	CAS-No. 67-56-1
Additional ecological information		

Result : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.
Danger to drinking water if even extremely small quantities leak into soil.

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.

Contaminated packaging : Empty remaining contents. Packagings that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of in accordance 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

DES-F (BE2024-0021) - CAN 20KG**14.1. UN number or ID number**

2209

14.2. UN proper shipping name

ADR : FORMALDEHYDE SOLUTION
RID : FORMALDEHYDE SOLUTION
IMDG : FORMALDEHYDE SOLUTION

14.3. Transport hazard class(es)

ADR-Class : 8
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 8; C9; 80; (E)
RID-Class : 8
(Labels; Classification Code; Hazard Identification Number) 8; C9; 80
IMDG-Class : 8
(Labels; EmS) 8; F-A, S-B

14.4. Packaging group

ADR : III
RID : III
IMDG : III

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**

EU. Directive : Qualifying quantity for the application of Lower-tier

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2012/18/EU on major accident hazards involving dangerous substances, Annex I, as amended

requirements: 50 tonnes; Part 1: Categories of dangerous substances; ACUTE TOXIC (Category 2, all exposure routes; Category 3, inhalation)

Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; ACUTE TOXIC (Category 2, all exposure routes; Category 3, inhalation)

Component:	formaldehyde	CAS-No. 50-00-0
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EU. Chemicals Subject to Export Notification: Annex 1, Part 1, Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Appendix 2, Entry 28 - Carcinogens: Category 1B (Table 3), Regulation 1907/2006/EC, as amended : , 28; Carcinogenicity; Category 1B

EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, 1907/2006/EC, as amended Point Nos.: 0,080, mg/m3, 77; Listed

Point Nos.: 0,1, %, 75; Listed
 Point Nos.: 0,1, %, 28; Restricted to professional users.; Listed
 Point Nos.: 0, %, 72; Listed
 Point Nos.: 0,01, %, 75; Listed
 Point Nos.: 0,001, %, 75; Listed
 Point Nos.: 0,00005, %, 75; Listed
 Point Nos.: 0,00005, %, 75; Listed
 EC Number: , 200-001-8
 Point Nos.: 0,062, mg/m3, 77; Listed
 Point Nos.: 0, %, 3; Listed
 Concentration: 75, mg/kg, 200-001-8; Listed

EU. REACH, Annex XVII, Appendix 12, Entry 72 - CMRs in Clothing & Textiles. Reg 1907/2006/EC, as amended

Index number: , 605-001-00-5

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EU. Regulation No. : Reference number: 1577; Listed
1223/2009 on cosmetic
products, Annex II: List of
Substances Prohibited in
Cosmetic Products

EU. Directive : Qualifying quantity for the application of Upper-tier
2012/18/EU on major requirements: 50 tonnes; Part 2: Named dangerous
accident hazards substances; List ID 14: Formaldehyde (concentration $\geq$ 90%),
involving dangerous see note 7
substances, Annex I, as
amended

Qualifying quantity for the application of Lower-tier
requirements: 5 tonnes; Part 2: Named dangerous substances;
List ID 14: Formaldehyde (concentration $\geq$ 90%), see note 7

EU. Substances, : Hazard Designation: ; Carcinogen/Mutagen
Mixtures, Related
Processes: Annex I &
Art. 2, Dir 2004/37/EC
(CMRD), as amended

Belgium. OELs. : Hazard Designation: ; Carcinogen/Mutagen
Exposure Limit Values to
Chemical Substances at
Work, Code of Well-
being at work, Book VI,
Title 1, as amended

Hazard Designation: ; When exposure exceeds the limit value
irritation occurs or danger of acute poisoning exists. The work
process must be designed in such a way that the exposure
never exceeds the limit value. During measurements, the
sampling period must be as short as possible to be able to
perform a reliable measurement. The measurement result is
then calculated depending on the sampling period.

Netherlands. List of : Hazard Designation: ; Carcinogenic
Carcinogenic
Substances and
Processes, as amended

Component:	methanol	CAS-No. 67-56-1
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EU. Chemicals Subject : ; The substance/mixture does not fall under this legislation.
to Export Notification:

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Annex 1, Part 1,
Regulation 649/2012/EU
on export and import of
dangerous chemicals, as
amended

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed
Restrictions on
manufacture, placing on
the market and use of
certain dangerous
substances,
1907/2006/EC, as
amended

Point Nos.: , 40; Listed
Point Nos.: , 69; Listed
Point Nos.: , 75; Listed

EU. Restricted : Maximum concentration in ready for use preparation: 5 %;
Substances: Annex III, Denaturant for ethanol and isopropyl alcohol; See the text of
Regulation the regulation for applicable exceptions or provisions.
1223/2009/EC on
Cosmetic Products, as
amended

EU. Directive : Qualifying quantity for the application of Lower-tier
2012/18/EU on major requirements: 500 tonnes; Part 2: Named dangerous
accident hazards substances; List ID 22: Methanol
involving dangerous
substances, Annex I, as
amended

Qualifying quantity for the application of Upper-tier
requirements: 5.000 tonnes; Part 2: Named dangerous
substances; List ID 22: Methanol

15.2. Chemical safety assessment

The chemical safety assessment of substances from this mixture has been done.

SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.

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H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.

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.
Note D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".
Note F	This substance may contain a stabiliser. If the stabiliser changes the hazardous properties of the substance, as indicated by the classification in Part 3, classification and labelling should be provided in accordance with the rules for classification and labelling of hazardous mixtures.

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

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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
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
SPM	Synthetic Polymer Microparticles
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 : Supplier information and data from the "Database of registered

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and sources for data		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 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	:	Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. 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.
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|| Indicates updated section.