

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



FILLER POT-BUCKET

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

1.1. Product identifier

Product name : FILLER POT-BUCKET
Registration number REACH : Not applicable (mixture)
Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Filler

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

TEC7*
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@tec7.be
*TEC7 is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Supplemental information

EUH208 Contains: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

2.3. Other hazards

Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
2,2'-iminodiethanol	111-42-2 203-868-0	C<1%	Repr. 2; H361fd Acute Tox. 4; H302 STOT RE 2; H373 Eye Dam. 1; H318 Skin Irrit. 2; H315	(1)(2)(6)(10)	Constituent	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 01-2120764691-48	55965-84-9	0.00015% <C<0.0015%	Acute Tox. 2; H330 Acute Tox. 2; H310 Acute Tox. 3; H301 Skin Sens. 1A; H317 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 PMT ; EUH450 vPvM ; EUH451 EUH071 Skin Irrit. 2; H315: 0,06% ≤C<0.6%, (CLP Annex VI (ATP 13)) Eye Dam. 1; H318: C≥0,6%, (CLP Annex VI (ATP 13)) Skin Corr. 1B; H314: C≥0,6%, (CLP Annex VI (ATP 13)) Eye Irrit. 2; H319: 0,06% ≤C<0,6%, (CLP Annex VI (ATP 13)) Skin Sens. 1A; H317: C≥0,0015%, (CLP Annex VI (ATP 13))	(1)(2)(10)	Constituent	M: 100 (Acute, CLP Annex VI (ATP 13)) M: 100 (Chronic, CLP Annex VI (ATP 13))

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

6.1.1 Protective equipment for non-emergency personnel

See section 8.2

6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

6.2. Environmental precautions

Contain released product.

6.3. Methods and material for containment and cleaning up

Solid spill: cover with absorbent material. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water.

Wash clothing and equipment after handling.

6.4. Reference to other sections

See section 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Meet the legal requirements. Keep container in a well-ventilated place. Protect against frost. Keep out of direct sunlight. Keep only in the original container.

7.2.2 Keep away from:

Heat sources.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Belgium

Diéthanolamine	Time-weighted average exposure limit 8 h	0.2 ppm (1)
	Time-weighted average exposure limit 8 h	1 mg/m ³ (1)

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(1) vapeur et aérosol

France

Diéthanolamine	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	3 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	15 mg/m ³

Germany

2,2'-Iminodiethanol (Diethanolamin)	Time-weighted average exposure limit 8 h (TRGS 900)	0.11 ppm (1)
	Time-weighted average exposure limit 8 h (TRGS 900)	0.5 mg/m ³ (1)
	<i>Die Reaktion mit nitrosierenden Agentien kann zur Bildung der entsprechenden kannzerogenen N-Nitrosoamine führen.</i>	
	<i>Summe aus Dampf und Aerosolen.</i>	
5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on Gemisch im Verhältnis 3:1	Time-weighted average exposure limit 8 h (MAK)	0.2 mg/m ³ (2)

(1) UF: 1 (I)

(2) Einatembare Fraktion; UF: I(2)

Austria

5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol- 3-on (Gemisch im Verhältnis 3:1)	Tagesmittelwert (MAK)	0.05 mg/m ³
Diethanolamin	<i>Reaktion mit nitro- sierenden Agentien kann zur Bildung des kanzerogenen N- Nitrosodiethanol-amins führen.</i>	
	Tagesmittelwert (MAK)	0.46 ppm
	Tagesmittelwert (MAK)	2 mg/m ³
	Kurzzeitwert 15(Miw) 4x (MAK)	0.92 ppm
	Kurzzeitwert 15(Miw) 4x (MAK)	4 mg/m ³

Ireland

Diethanolamine	Time-weighted average exposure limit 8 h (Advisory occupational exposure limit values)	0.2 ppm
	Time-weighted average exposure limit 8 h (Advisory occupational exposure limit values)	1 mg/m ³ (1)

(1) (IFV)

USA (TLV-ACGIH)

Diethanolamine	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	1 mg/m ³ (1)
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(1) (IFV): Inhalable fraction and vapor

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
Diethanolamine (Aminoethanol Compounds II)	NIOSH	3509
Diethanolamine	OSHA	2018
Kathon 886 (kathon biocide)	SKC NON	55

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 Threshold values

DNEL/DMEL - Workers

2,2'-iminodiethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.75 mg/m ³	
	Long-term local effects inhalation	0.5 mg/m ³	
	Long-term systemic effects dermal	0.13 mg/kg bw/day	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.02 mg/m ³	
	Acute local effects inhalation	0.04 mg/m ³	

DNEL/DMEL - General population

2,2'-iminodiethanol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.125 mg/m ³	
	Long-term local effects inhalation	0.125 mg/m ³	
	Long-term systemic effects dermal	0.07 mg/kg bw/day	
	Long-term systemic effects oral	0.06 mg/kg bw/day	

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	0.02 mg/m ³	
	Acute local effects inhalation	0.04 mg/m ³	
	Long-term systemic effects oral	0.09 mg/kg bw/day	
	Acute systemic effects oral	0.11 mg/kg bw/day	

PNEC

2,2'-iminodiethanol

Compartment	Value	Remark
Fresh water	0.021 mg/l	
Marine water	0.002 mg/l	
Aqua (intermittent releases)	0.095 mg/l	
Fresh water sediment	0.096 mg/kg sediment dw	
Marine water sediment	0.009 mg/kg sediment dw	
STP	100 mg/l	
Soil	1.63 mg/kg soil dw	
Oral	1.04 mg/kg food	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Compartment	Value	Remark
Fresh water	3.39 µg/l	
Fresh water (intermittent releases)	3.39 µg/l	
Marine water	3.39 µg/l	
Marine water (intermittent releases)	3.39 µg/l	
STP	0.23 mg/l	
Fresh water sediment	0.027 mg/kg sediment dw	
Marine water sediment	0.027 mg/kg sediment dw	
Soil	0.01 mg/kg soil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Remark
nitrile rubber	Good resistance
polyethylene	Good resistance

c) Eye protection:

Face shield (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Paste
Viscosity	Thixotropic
Colour	White
Odour	Characteristic odour
Odour threshold	No data available in the literature
Melting point	No data available in the literature
Boiling point	100 °C
Flammability	Not classified as flammable
Explosion limits	No data available in the literature
Flash point	200 °C
Auto-ignition temperature	No data available in the literature
Decomposition temperature	No data available in the literature
pH	No data available in the literature
Kinematic viscosity	No data available in the literature

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Dynamic viscosity	No data available in the literature
Solubility	Water ; miscible
Log Kow	Not applicable (mixture)
Vapour pressure	No data available in the literature
Absolute density	400 kg/m ³ ; 20 °C
Relative density	0.40 ; 20 °C
Relative vapour density	No data available in the literature
Particle size	Not applicable (liquid)

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

FILLER POT-BUCKET

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2,2'-iminodiethanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	1600 mg/kg bw		Rat (male / female)	Experimental value	
Dermal						Data waiving	
Inhalation (vapours)	LC0	Equivalent to OECD 403	0.2 mg/l	8 h	Rat (male / female)	Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	66 mg/kg bw		Rat (male / female)	Experimental value	Calculated by reference to active substance
Skin	LD50	OECD 402	87 mg/kg bw	24 h	Rabbit (male)	Experimental value	Calculated by reference to active substance
Inhalation (dust)	LC50	OECD 403	0.17 mg/l air	4 h	Rat (male / female)	Experimental value	Calculated by reference to active substance

Conclusion

Not classified for acute toxicity

Corrosion/irritation

FILLER POT-BUCKET

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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2,2'-iminodiethanol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	Equivalent to OECD 405		24; 48; 72 hrs; 8 days	Rabbit	Experimental value	Single treatment without rinsing
Dermal	Irritating	Equivalent to OECD 404	20 h	24; 48; 72 hours	Rabbit	Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage			24; 48; 72 hrs; 7 days	Rabbit	Experimental value	Single treatment with rinsing
Skin	Corrosive	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	Aqueous solution

Conclusion

Not classified as irritating to the respiratory system
 Not classified as irritating to the skin
 Not classified as irritating to the eyes

Respiratory or skin sensitisation

FILLER POT-BUCKET

No (test)data on the mixture available
 Judgement is based on the relevant ingredients

2,2'-iminodiethanol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406			Guinea pig (female)	Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	Mouse local lymph node assay (LLNA)			Mouse (female)	Experimental value	

Conclusion

Not classified as sensitizing for inhalation
 Not classified as sensitizing for skin

Specific target organ toxicity

FILLER POT-BUCKET

No (test)data on the mixture available
 Judgement is based on the relevant ingredients

FILLER POT-BUCKET

2,2'-iminodiethanol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (drinking water)	LOAEL	Equivalent to OECD 408	14 mg/kg bw/day	Kidney; blood (haematological changes; nephrotoxicity; kidney weight)	13 weeks (daily)	Rat (female)	Experimental value	
Oral (drinking water)	LOAEL	Equivalent to OECD 408	25 mg/kg bw/day	Kidney; blood (haematological changes; nephrotoxicity; kidney weight)	13 weeks (daily)	Rat (male)	Experimental value	
Oral (drinking water)	LOAEL	Equivalent to OECD 408	104 mg/kg bw/day	Liver (histopathology)	13 weeks (daily)	Mouse (male)	Experimental value	
Oral (drinking water)	LOAEL	Equivalent to OECD 408	142 mg/kg bw/day	Liver (histopathology)	13 weeks (daily)	Mouse (female)	Experimental value	
Dermal	LOAEL	Equivalent to OECD 411	32 mg/kg bw/day	Blood; kidney; skin (haematological changes; nephropathy; skin hyperkeratosis)	13 weeks (5 days / week)	Rat (male / female)	Experimental value	
Inhalation (aerosol)	NOAEC systemic effects	OECD 413	15 mg/m ³	No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	
Inhalation (aerosol)	LOAEC local effects	OECD 413	15 mg/m ³	Respiratory tract (irritation of the respiratory tract)	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (drinking water)	NOAEL	OECD 408	16.3 mg/kg bw/day	No effect	90 day(s)	Rat (male)	Experimental value	Calculated by reference to active substance
Oral (drinking water)	NOAEL	OECD 408	24.7 mg/kg bw/day	No effect	90 day(s)	Rat (female)	Experimental value	Calculated by reference to active substance
Dermal	NOAEL systemic effects	EPA OPP 82-3	2.6 mg/kg bw/day	No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	Calculated by reference to active substance
Dermal	NOAEC local effects	EPA OPP 82-3	0.11 mg/kg bw/day	No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	Calculated by reference to active substance
Inhalation (aerosol)	NOAEL	OECD 413	0.34 mg/m ³ air	No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value	

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

FILLER POT-BUCKET

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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2,2'-iminodiethanol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S. typhimurium and E. coli)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Result	Method	Test substrate	Effect	Value determination	Remark
Positive with metabolic activation, positive without metabolic activation	EPA OPP 84-2	Bacteria (S.typhimurium)	Increased number of mutant colonies	Experimental value	Aqueous solution
Positive with metabolic activation, positive without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	Mutagenic	Experimental value	Aqueous solution

Mutagenicity (in vivo)

FILLER POT-BUCKET

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2,2'-iminodiethanol

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Dermal)	Equivalent to OECD 474	13 weeks (5 days / week)	Mouse (male / female)	No effect	Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Oral (stomach tube))	OECD 486		Rat (male)	No effect	Experimental value	Single treatment

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

FILLER POT-BUCKET

No (test)data on the mixture available

Judgement is based on the relevant ingredients

2,2'-iminodiethanol

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Dermal	NOAEL	Equivalent to OECD 451	32 mg/kg bw/day	No carcinogenic effect	103 weeks (5 days / week)	Rat (female)	Experimental value	
Dermal	NOAEL	Equivalent to OECD 451	64 mg/kg bw/day	No carcinogenic effect	103 weeks (5 days / week)	Rat (male)	Experimental value	
Dermal	LOAEL	Equivalent to OECD 451	40 mg/kg bw/day	Liver; kidney (carcinogenicity)	103 weeks (5 days / week)	Mouse (male / female)	Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Skin	Dose level	Equivalent to OECD 451	0.01 mg	No carcinogenic effect	30 month(s)	Mouse (male)	Experimental value	Calculated by reference to active substance
Oral (drinking water)	NOEL	OECD 453	300 ppm	No carcinogenic effect	24 month(s)	Rat (male / female)	Experimental value	Calculated by reference to active substance

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

FILLER POT-BUCKET

No (test)data on the mixture available

Judgement is based on the relevant ingredients

FILLER POT-BUCKET

2,2'-iminodiethanol

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Inhalation)	NOAEC	OECD 414	0.05 mg/l	10 days (6h / day)	Rat	No effect	Experimental value	
Developmental toxicity (Dermal)	NOAEL	Equivalent to OECD 414	> 1500 mg/kg bw/day	10 days (6h / day)	Rat	No effect	Experimental value	
Maternal toxicity (Inhalation)	NOAEC	OECD 414	0.05 mg/l	10 days (6h / day)	Rat	No effect	Experimental value	
Maternal toxicity (Dermal)	LOAEL	Equivalent to OECD 414	150 mg/kg bw/day	10 days (6h / day)	Rat	Maternal toxicity	Experimental value	
Effects on fertility (Oral (drinking water))	NOAEL (P/F1)	OECD 443	300 ppm	≥ 8 week(s)	Rat (male / female)	No effect	Experimental value	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	15 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect	Experimental value	Calculated by reference to active substance
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	15 mg/kg bw/day		Rat	No effect	Experimental value	Calculated by reference to active substance
Effects on fertility (Oral (drinking water))	NOAEL	OECD 416	300 ppm	10 week(s)	Rat (male / female)	No effect	Experimental value of similar product	Calculated by reference to active substance

Conclusion

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

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Judgement is based on the relevant ingredients
Not classified for aspiration toxicity

Toxicity other effects

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

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Skin rash/inflammation.

11.2. Information on other hazards

No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

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No (test)data on the mixture available
Judgement of the mixture is based on the relevant ingredients

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2,2'-iminodiethanol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		460 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value
Acute toxicity crustacea	EC50		30.1 mg/l	48 h	Ceriodaphnia dubia	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC10	EPA 600/9-78-018	1.1 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
	EC50	EPA 600/9-78-018	9.5 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	EC10	EU Method	1.05 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value
Toxicity aquatic micro-organisms	EC10	OECD 209	> 1000 mg/l	30 minutes				Experimental value

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EPA OPP 72-1	0.19 mg/l	96 h	Oncorhynchus mykiss	Flow-through system	Fresh water	Experimental value; Measured concentration
Acute toxicity crustacea	EC50		0.007 mg/l	48 h	Acartia tonsa		Salt water	Experimental value; GLP
Toxicity algae and other aquatic plants	NOEC	OECD 201	0.49 µg/l	48 h	Skeletonema costatum	Static system	Salt water	Experimental value; Growth rate
	EC50		0.025 mg/l	96 h	Selenastrum capricornutum			Literature study
Long-term toxicity fish	NOEC	OECD 210	46 µg/l	35 day(s)	Danio rerio	Flow-through system	Fresh water	Experimental value; Measured concentration
Long-term toxicity aquatic crustacea	NOEC	EPA OPP 72-4	0.1 mg/l	21 day(s)	Daphnia magna	Flow-through system	Fresh water	Experimental value; Nominal concentration
Toxicity aquatic micro-organisms	EC50	OECD 209	4.5 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

2,2'-iminodiethanol

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F	93 %	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	4.154 h	0.5E6 /cm ³	QSAR

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Biodegradation water

Method	Value	Duration	Value determination
OECD 301B	48 % - 56 %; GLP	28 day(s)	Experimental value

Conclusion

Water

Contains traces of a non-biodegradable component

12.3. Bioaccumulative potential

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Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

2,2'-iminodiethanol

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		2.69 l/kg			QSAR

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		-2.46	25 °C	Test data

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	41 - 54; Fresh weight	28 day(s)	Lepomis macrochirus	Experimental value

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.33	24 °C	

Conclusion

Does not contain bioaccumulative component(s)

12.4. Mobility in soil

2,2'-iminodiethanol

(log) Koc

Parameter	Method	Value	Value determination
log Koc		0.99	Calculated value

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0 %		0 %	0 %	99.99 %	Calculated value

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

(log) Koc

Parameter	Method	Value	Value determination
log Koc		0.81 - 1	Calculated value

Conclusion

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

PMT conclusion

Does not contain component(s) that meet(s) the criteria of PMT and/or vPvM as listed in Annex I of Regulation (EC) No 1272/2008

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Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

Groundwater

Groundwater pollutant

2,2'-iminodiethanol

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

Water ecotoxicity pH

pH shift

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

Groundwater

Groundwater pollutant

Water ecotoxicity pH

pH shift

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

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Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

No data available

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number or ID number

Transport	Not subject
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14.2. UN proper shipping name

14.3. Transport hazard class(es)

Hazard identification number	
Class	
Classification code	

14.4. Packing group

Packing group	
Labels	

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	
Limited quantities	

14.7. Maritime transport in bulk according to IMO instruments

Annex II of MARPOL 73/78	Not applicable, based on available data
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SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
2.2 %	
9.1 g/l	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

REACH Candidate list

Does not contain component(s) included in candidate list of substances of very high concern (SVHC) for authorisation (Article 59 of Regulation (EC) No 1907/2006)

REACH Annex XIV - Authorisation

Does not contain component(s) included in Annex XIV of Regulation (EC) No 1907/2006: list of substances subject to authorisation

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· 2,2'-iminodiethanol · reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation — skin sensitiser category 1, 1A or 1B — skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 — serious eye damage category 1 or eye irritant category 2	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081

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(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council
(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.
The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

National legislation Belgium

FILLER POT-BUCKET

No data available

2,2'-iminodiethanol

Résorption peau	Diéthanolamine; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.
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National legislation The Netherlands

FILLER POT-BUCKET

Waterbezwaarlijkheid	B (4); Algemene Beoordelingsmethodiek (ABM)
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National legislation France

FILLER POT-BUCKET

No data available

National legislation Germany

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WGK	1; Classification water polluting according to external literature source
2,2'-iminodiethanol	
TA-Luft	5.2.5/I
TRGS900 - Risiko der Fruchtschädigung	2,2'-Iminodiethanol (Diethanolamin); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Sensibilisierende Stoffe	2,2'-Iminodiethanol (Diethanolamin); Sh; Hautsensibilisierende Stoffe
Hautresorptive Stoffe	2,2'-Iminodiethanol (Diethanolamin); H; Hautresorptiv
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
TA-Luft	5.2.5/I

National legislation Austria

FILLER POT-BUCKET

No data available

2,2'-iminodiethanol

Gefahr der Sensibilisierung der Haut	Diethanolamin; Sh
besondere Gefahr der Hautresorption	Diethanolamin; H
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
Gefahr der Sensibilisierung der Haut	5-Chlor-2-methyl-2,3- dihydroisothiazol-3-on und 2- Methyl-2,3-di-hydroisothiazol- 3-on (Gemisch im Verhältnis 3:1); Sh

National legislation United Kingdom

FILLER POT-BUCKET

No data available

National legislation Ireland

FILLER POT-BUCKET

No data available

Other relevant data

FILLER POT-BUCKET

No data available

2,2'-iminodiethanol

TLV - Carcinogen	Diethanolamine; A3
IARC - classification	2B; Diethanolamine
TLV - Skin absorption	Diethanolamine; Skin; Danger of cutaneous absorption

15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

FILLER POT-BUCKET

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:

EUH450 Can cause long-lasting and diffuse contamination of water resources.
EUH451 Can cause very long-lasting and diffuse contamination of water resources.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal 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.
H330 Fatal if inhaled.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs (blood, central nervous system, liver, kidneys) through prolonged or repeated exposure if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.
EUH208 Contains a sensitising substance. May produce an allergic reaction.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BEI	Biological Exposure Indices
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC10	Effect Concentration 10 %
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
GLP	Good Laboratory Practice
HS	Harmonized System of Nomenclature, a standardized international system for classifying goods under the Harmonized System Convention, as drawn up by the World Customs Organization Secretariat
LC0	Lethal Concentration 0 %
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
LOAEC/LOAEL	Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.