



PP Captan 80 WG

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
SDS Reference Number: REG-IE-060
Issue date: 3/11/2008 Date of revision: 4/1/2025 Supersedes version of: 8/27/2019 Version: 4.1

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

1.1. Product identifier

Product form : Mixture
Name : CAPTAN 80 WG
Trade name : PP Captan 80 WG

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

1.2.1. Relevant identified uses

Main use category : Professional use
Industrial/Professional use spec : Plant protection products
Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

Restrictions on use : No known evidence against using

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience SAS
BP 80 - Route d'Artix
64150 Noguères
FRANCE
T +33 5 59 60 92 92, F +33 5 59 60 92 99
EUR-SDS.info@upl-ltd.com

1.4. Emergency telephone number

Emergency number : Europe (English) : +44 1235 239670 (identify EU language) / Rest of the word (English) :
+44 1865 407333
112 (European Emergency Number)

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Carcinogenicity, Category 2 H351
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410
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)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

- : Danger
- : Docusate sodium; Captan
- : H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H351 - Suspected of causing cancer.
H410 - Very toxic to aquatic life with long lasting effects.
- : P261 - Avoid breathing gas.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER or doctor/physician.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P363 - Wash contaminated clothing before reuse.
P501: Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.
- : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

Other hazards which do not result in classification

- : Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

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

Component	
PBT: not relevant – no registration required	Captan (133-06-2)
vPvB: not relevant – no registration required	Captan (133-06-2)

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 substance(s) are 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 at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Captan substance with national workplace exposure limit(s) (IE)	CAS-No.: 133-06-2 EC-No.: 205-087-0 EC Index-No.: 613-044-00-6	≥ 80	Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)
Sodium Alkyl Naphthalene Sulphonate Formaldehyde Condensate	CAS-No.: 68425-94-5	2.5 – 10	Eye Irrit. 2, H319
Docusate sodium	CAS-No.: 577-11-7 EC-No.: 209-406-4 REACH-no: 01-2119491296-29	1 – 2.5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Sodium polycarboxylate (2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt)	CAS-No.: 37199-81-8 EC-No.: 609-343-6	0.25 – 1	Skin Sens. 1, H317
2-ethylhexan-1-ol substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 104-76-7 EC-No.: 203-234-3 REACH-no: 01-2119487289-20	< 0.25	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	< 0.1	Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1) EUH071
reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5 REACH-no: 01-2120764691-48-XXXX	<0.01	Acute Tox. 2 (Inhalation), H330 (ATE=0.31 mg/l/4h) Acute Tox. 2 (Dermal), H310 (ATE=200 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
2-methylisothiazol-3(2H)-one	CAS-No.: 2682-20-4 EC-No.: 220-239-6 EC Index-No.: 613-326-00-9	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5 REACH-no: 01-2120764691-48-XXXX	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317 (0.06 ≤ C < 0.6) Skin Irrit. 2; H315 (0.06 ≤ C < 0.6) Eye Irrit. 2; H319 (0.6 ≤ C ≤ 100) Eye Dam. 1; H318 (0.6 ≤ C ≤ 100) Skin Corr. 1C; H314

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	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: First rinse with plenty of water. Remove contaminated clothing, then rinse again with water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after eye contact	: Causes serious eye damage.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: In case of fire may be liberated: Hazardous decomposition products.
Hazardous decomposition products in case of fire	: Burning produces stinking and toxic fumes. Carbon dioxide (CO ₂). Sulphur oxides.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Do not breathe dust. Avoid contact with skin and eyes. Only qualified personnel equipped with suitable protective equipment may intervene.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or shovel. Collect in closed containers for disposal.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Avoid creating or spreading dust. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Always wash hands after handling the product. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. See Section 15.1.2.: National regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-ethylhexan-1-ol (104-76-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-ethylhexan-1-ol
IOEL TWA	5.4 mg/m ³
	1 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Ireland - Occupational Exposure Limits	
Local name	2-Ethylhexan-1-ol
OEL TWA	5.4 mg/m ³
	1 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Captan (133-06-2)	
Ireland - Occupational Exposure Limits	
Local name	Captan (ISO)
OEL TWA	5 mg/m ³

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Captan (133-06-2)	
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values), Sens (In the workplace, respiratory or dermal exposures to sensitising agents may occur. Sensitisers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The “sens” notation alone does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitisers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))
Regulatory reference	Chemical Agents Code of Practice 2024

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

No additional information available

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.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields (e.g. ISO 16321-1)

8.2.2.2. Skin protection

Skin and body protection:

Impervious clothing. Wear standard coveralls and Category 3 Type 5 suit (EN 13688 + EN 13982-1:2004).

If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0.5	3 (> 0.65)	EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Wear respiratory equipment during current use of this product.

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Respiratory protection			
Device	Filter type	Condition	Standard
Disposable half mask	ABEK-P3	Dust protection	EN 140, EN 149

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Beige. Light brown.
Appearance	: Granulate.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flammability	: Non flammable.
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing material according to EC criteria.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable to solids
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: 8.45 CIPAC MT75
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not applicable
Vapour pressure at 50°C	: Not available
Density	: 0.803 g/ml Tap density
Relative density	: Not applicable
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability

In use may form flammable/explosive vapour-air mixture.

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10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Sulphur oxides. Chlorides. Phosgene.

SECTION 11: Toxicological information

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

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

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LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

2-ethylhexan-1-ol (104-76-7)

LD50 oral rat	≈ 2047 mg/kg (OECD 401 method)
LD50 dermal rat	> 3000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	1 – 4 mg/l/4h (Aerosol)(OECD 403 method)
LC50 Inhalation - Rat (Vapours)	> 0.89 mg/l/4h (maximum attainable concentration - zero mortality)

Docusate sodium (577-11-7)

LD50 oral	3080 mg/kg
LD50 dermal	10000 mg/kg

Captan (133-06-2)

LD50 oral rat	> 2000 mg/kg OECD 405
LD50 dermal rat	> 2000 mg/kg OECD 401
LC50 Inhalation - Rat (Dust/Mist)	≈ 1.16 mg/l/4h OECD 403

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)

LD50 oral rat	550 mg/kg
LD50 dermal rat	200 – 1000 mg/kg
LC50 Inhalation - Rat	0.31 mg/l/4h

Sodium Alkyl Naphthalene Sulphonate Formaldehyde Condensate (68425-94-5)

LD50 oral rat	> 5000 mg/kg
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Skin corrosion/irritation : Not classified
pH: 8.45 CIPAC MT75

Additional information : Based on available data, the classification criteria are not met

Sodium polycarboxylate (2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt) (37199-81-8)

pH	10.5 – 11.9 (10% (m/v))
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Captan (133-06-2)	
pH	Not applicable
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
pH	3.43 Temp.: 20 °C Concentration: 10 g/L
2-methylisothiazol-3(2H)-one (2682-20-4)	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
Sodium Alkyl Naphthalene Sulphonate Formaldehyde Condensate (68425-94-5)	
pH	7.5 – 10 (5%)
Serious eye damage/irritation	: Causes serious eye damage. pH: 8.45 CIPAC MT75
Sodium polycarboxylate (2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt) (37199-81-8)	
pH	10.5 – 11.9 (10% (m/v))
Captan (133-06-2)	
pH	Not applicable
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
pH	3.43 Temp.: 20 °C Concentration: 10 g/L
2-methylisothiazol-3(2H)-one (2682-20-4)	
pH	2.58 Temp.: 25 °C Concentration: 50 g/L
Sodium Alkyl Naphthalene Sulphonate Formaldehyde Condensate (68425-94-5)	
pH	7.5 – 10 (5%)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
2-ethylhexan-1-ol (104-76-7)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Docusate sodium (577-11-7)	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight/day (OECD 408 method)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LOAEL (dermal, rat/rabbit, 90 days)	0.525 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)
2-methylisothiazol-3(2H)-one (2682-20-4)	
LOAEL (oral, rat, 90 days)	71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Viscosity, kinematic	Not applicable
Captan (133-06-2)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

PP Captan 80 WG	
LC50 - Fish	0.034 mg/l (Salmo sp)
EC50 - Crustacea	3.4 mg/l Captan 83 WP. (Daphnia magna)
EC50 72h - Algae	1.18 mg/l Captan 83 WP. Ecb50 (Pseudokirchneriella subcapitata)
2-ethylhexan-1-ol (104-76-7)	
LC50 - Fish	17.1 mg/l/96h (Leuciscus idus melanotus)
LC50 fish	28.2 mg/l/96h (Pimephales promelas)
EC50 - Crustacea	39 mg/l/48h (Daphnia magna)
ErC50 algae	16.6 mg/l/72h (72h, Scenedesmus subspicatus)
EbC50, algae	11.5 mg/l/72h (Scenedesmus subspicatus)
Docusate sodium (577-11-7)	
LC50 - Fish	49 mg/l (96h - Brachydanio rerio)
LC50 fish	17.3 mg/l (96h - Pimephales promelas)
EC50 - Crustacea	6.6 mg/l (48h - Daphnia magna)
EC50 96h algae	> 100 mg/l (96h)
ErC50 algae	82.5 mg/l/72h (72h- Green algae)
Captan (133-06-2)	
LC50 - Fish	98 µg/l (Oncorhynchus mykiss), OECD 210
EC50 - Crustacea	2.89 mg/l/48h (83% WP formulation), OECD 202
EC50 72h - Algae	0.316 mg/l/72h (Raphidocelis subcapitata, OECD 201)
NOEC chronic fish	0.2 mg/l 95 d (Oncorhynchus mykiss) (80 WG formulation) (OECD 210)
NOEC chronic crustacea	0.4 mg/l 28d, (Daphnia magna) (OECD 202)

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LC50 - Fish	0.22 mg/l (96h Rainbow trout)
LC50 fish	0.28 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea	0.1 mg/l (48h Daphnia)
EC50 72h - Algae	0.048 mg/l (72h Pseudokirchneriella subcapitata)
ErC50 algae	0.048 mg/l 72h, Pseudokirchneriella subcapitata
NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.098 mg/l (28 d Rainbow trout)
NOEC chronic crustacea	0.004 mg/l (21 d Daphnia)
NOEC chronic algae	0.0012 mg/l (72 h Pseudokirchneriella subcapitata)

2-methylisothiazol-3(2H)-one (2682-20-4)	
LC50 - Fish	4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea	1.6 mg/l Test organisms (species): Daphnia magna

Sodium Alkyl Naphthalene Sulphonate Formaldehyde Condensate (68425-94-5)	
LC50 - Fish	10 – 100 mg/l/96h Danio rerio, OECD 203
EC50 - Crustacea	> 100 mg/l/48h Daphnia magna, OECD 202
EC50 72h - Algae	> 100 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	10 – 100 mg/l Daphnia magna

12.2. Persistence and degradability

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Persistence and degradability	Not readily biodegradable.

2-ethylhexan-1-ol (104-76-7)	
Persistence and degradability	Readily biodegradable.

Sodium polycarboxylate (2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt) (37199-81-8)	
Persistence and degradability	Not readily biodegradable.

Docusate sodium (577-11-7)	
Persistence and degradability	Readily biodegradable, (OECD 310).
Biodegradation	> 60 % 14days

Captan (133-06-2)	
Persistence and degradability	Not readily biodegradable.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Persistence and degradability	Readily biodegradable.

2-methylisothiazol-3(2H)-one (2682-20-4)	
Persistence and degradability	Not rapidly degradable

Sodium Alkyl Naphthalene Sulphonate Formaldehyde Condensate (68425-94-5)	
Persistence and degradability	Not readily biodegradable.

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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Sodium polycarboxylate (2,5-Furandione, polymer with 2,4,4-trimethylpentene, sodium salt) (37199-81-8)

Bioaccumulative potential	There is no bioaccumulation.
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Docusate sodium (577-11-7)

Partition coefficient n-octanol/water (Log Pow)	1.998 (20°C)
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Captan (133-06-2)

Partition coefficient n-octanol/water (Log Pow)	2.5 – 2.57
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Partition coefficient n-octanol/water (Log Kow)	2.6
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12.4. Mobility in soil

Captan (133-06-2)

Mobility in soil	medium
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12.5. Results of PBT and vPvB assessment

PP Captan 80 WG

Results of PBT assessment	All constituents (>0.1%) do not clearly fulfil REACH PBT/vPvB criteria based on data lacking.
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Component

PBT: not relevant – no registration required	Captan (133-06-2)
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vPvB: not relevant – no registration required	Captan (133-06-2)
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

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Other information	Avoid release to the environment.
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Captan (133-06-2)

Other information	Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Do not discharge into drains or rivers. Dispose of contents/container in accordance with licensed collector's sorting instructions. Discharging into rivers and drains is forbidden.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Recycle or dispose of in compliance with current legislation.
Ecological waste information	: Avoid release to the environment. Empty remaining contents. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

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SECTION 14: Transport information

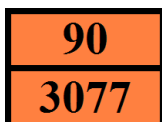
In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 3077	UN 3077	UN 3077
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Captan))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Captan))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Captan))
Transport document description		
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Captan)), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Captan)), 9, III, MARINE POLLUTANT	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((Captan)), 9, III
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes
Dangerous for the environment		

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	:



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Tunnel restriction code : -

Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P002, LP02
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3
Tank instructions (IMDG) : T1, BK1, BK2, BK3
Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23
MFAG-No : 171

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg
Special provisions (IATA) : A97, A158, A179, A197, A215
ERG code (IATA) : 9L

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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

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

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : Directive 2012/18/EU (SEVESO III)
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Revision date	Modified
	Supersedes	Modified
1.1	Product code	Modified
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified
2.2	Hazard pictograms (CLP)	Modified
2.2	Precautionary statements (CLP)	Modified
2.2	Hazard statements (CLP)	Modified
9.1	Density	Modified
9.1	Flash point	Added
9.1	Viscosity, dynamic	Added
9.1	Relative density	Added
9.1	Vapour pressure	Added
9.1	Relative vapour density at 20°C	Added
9.1	Freezing point	Added
9.1	Decomposition temperature	Modified
9.1	Boiling point	Added
9.1	Melting point	Modified
9.1	Relative evaporation rate (butylacetate=1)	Added
9.1	Viscosity, kinematic	Added
9.1	pH	Added
12.5	Results of PBT assessment	Added

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Full text of H- and EUH-statements:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2

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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 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
Aquatic Acute 1	H400	On basis of test data
Aquatic Chronic 1	H410	Expert judgement

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Safety Data Sheet applicable for regions : EU - Europe; IE - Ireland

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.