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COMBAT 444

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Version: 9 Revision date: 18-09-2025 Print date: 18-09-2025

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

1.1 Product identifier

Product identifier: 4810444 Name: COMBAT 444

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

Relevant identified uses: Additive

1.3 Details of the supplier of the safety data sheet

Supplier: San Marco Group Spa

Address: Via Alta, 10

Postal code/City: 30020 - Marcon (VE)

Country: Italy

Telephone: +39 041 4569322

E-mail (competent person): sicurezza.prodotti@sanmarcogroup.it

1.4 Emergency telephone number

Emergency phone number

Malta: Emergency number: 112 (24/7) Luxembourg: (+352) 8002 5500 Free telephone number with a 24/7 access

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A. H317 Aquatic Acute 1, H400

Aquatic Chronic 1, H410 Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

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

Hazard pictograms





Signal word: Warning

Contains: 2-octyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one.

Hazard statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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 $P501-Dispose\ of\ contents\ /\ container\ in\ accordance\ with\ national\ regulations.$

Supplemental hazard information

This information is not available.

2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous ingredients

Name	Product identifier	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL, M-factor, ATE
2-octyl-2H-isothiazol-3-one	CAS No.: 26530-20-1 EC No.: 247-761-7 Index No.: 613-112-00-5	1.0% <= C < 3.0%	Tox. 3, H311 / inhalation Acute Tox. 2,	Skin Sens. 1A; H317: C >= 0.0015% / ATE (oral):125.0 mg/kg bw / ATE (dermal):311.0 mg/kg bw / ATE (inhalation, dust/mist):0.27 mg/L / M (acute) = 100 / M (chronic) = 100
2-methyl-2H-isothiazol-3-one	CAS No.: 2682-20-4 EC No.: 220-239-6	0.0015% <= C < 0.005%	Tox. 3, H311 / inhalation Acute Tox. 2, H330 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic Acute	Skin Sens. 1A; H317: C >= 0.0015% / ATE (oral):120.0 mg/kg bw / ATE (dermal):300.0 mg/kg bw / ATE (inhalation, dust/mist):0.134 mg/L / M (acute) = 10 / M (chronic) = 1

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Remove casualty to fresh air and keep warm and at rest.

Following skin contact:

After contact with skin, wash immediately with plenty of water and soap.

Remove contaminated, saturated clothing immediately.

Wash thoroughly the body (shower or bath).

After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

Following ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

There are no specific information on symptoms and effects caused by the product. Delayed effects: based on the information currently available, there are no known cases of delayed effects following exposure to this product.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water

Carbon dioxide (CO2)

Unsuitable extinguishing media

No special measures are necessary.

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Move undamaged containers from immediate hazard area if it can be done safely.

 $Collect \ contaminated \ fire \ extinguishing \ water \ separately. \ Do \ not \ allow \ entering \ drains \ or \ surface \ water.$

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Use personal protection equipment.

Remove persons to safety.

6.1.2 For emergency responders

Use personal protection equipment.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

Suitable material for taking up:

Absorbing material, organic

Sand

6.3.2 For cleaning up

Wash with plenty of water.

6.3.3 Other information

No data available

6.4 Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective measures

Handle and open container with care.

7.1.2 Advices on general occupational hygiene

Avoid contact with skin, eyes and clothes.



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Remove contaminated, saturated clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff.

7.1.3 Measures to prevent aerosol and dust generation

This information is not available.

7.1.4 Environmental precautions

No special measures are necessary.

7.1.5 Measures to prevent fire

No special fire protection measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Technical measures and storage conditions

Keep in a cool, well-ventilated place.

$\underline{\text{7.2.2 Requirements for storage rooms and vessels}}$

This information is not available.

7.2.3 Packaging materials:

This information is not available.

7.2.4 Storage class

This information is not available.

7.3 Specific end use(s)

7.3.1 Recommendation

Observe instructions for use.

7.3.2 Industrial sector specific solutions

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

This information is not available.

Monitoring and observation processes

This information is not available.

DNEL values

This information is not available.

PNEC

This information is not available.

Biological limit values

This information is not available.

8.2 Exposure controls

Appropriate engineering controls

See section 7 of the safety data sheet.

Personal protection equipment

Skin protection

Body protection:

Body protection: not required.

Hand protection

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous



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substances.

Eye/face protection

Face protection shield

Do not wear contact lenses.

Respiratory protection

Usually no personal respirative protection necessary.

Thermal hazards

This information is not available.

Environmental exposure controls

This information is not available.

SECTION 9: Physical and chemical properties

lianda	
iiquia	
colourless	
characteristic	
Not applicable	
<0 °C Remark: waterfall	
Not applicable	
>100 °C Remark: waterfall	
Non-flammable.	
Not applicable	
Not applicable	
7.0	
Not applicable	
Not applicable	
This information is not available.	
dispersible	
This information is not available.	
This information is not available.	
	characteristic Not applicable <0 °C Remark: waterfall Not applicable >100 °C Remark: waterfall Non-flammable. Not applicable Not applicable To Not applicable This information is not available. dispersible This information is not available.



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Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density	0,98 kg/L
Relative vapour density	Not applicable
refraction index	This information is not available.
Particle size	Not applicable
Particle size distribution range	Not applicable
Shape and aspect ratio	Not applicable
Aggregation and agglomeration state	Not applicable
Specific surface area	Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

This information is not available.

9.2.2 Other safety characteristics

This information is not available.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No known hazardous reactions. Further risks: see subsection 2.3.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions. Further information on storage conditions: see subsection 7.2.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information



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

Mixtures

Acute toxicity

ate (oral): 5208.073 mg/kg bw ate (oral): 12957.685 mg/kg bw ate (oral): 20.832 mg/kg bw

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

Skin corrosion/irritation

Assessment/classification: Skin Irrit. 2/H315

Serious eye damage/irritation

Assessment/classification: Eye Irrit. 2/H319

Respiratory or skin sensitisation

Assessment/classification: Skin Sens. 1A/H317

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

This information is not available.

SECTION 12: Ecological information

12.1 Toxicity

Do not allow uncontrolled discharge of product into the environment.

Test duration

Value

There are no data available on the mixture itself.

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

<u>Mixtures</u>

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

<u>Substances</u>

2-octyl-2H-isothiazol-3-one - CAS: 26530-20-1

Aquatic acute toxicity

Effective dose Species

Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
EC50	Daphnia magna	48h	0.32 mg/L				
	(Big water flea)						
Acute (short-ter	m) toxicity to alga	e and cyanobact	eria				
Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
EC50		72h	0.084 mg/L	algae			
Acute (short-ter	m) fish toxicity						
Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
LC50	Oncorhynchus		0.047 mg/L				
	mykiss (Rainbow	,					
	trout)						
Chronic (long-te	rm) fish toxicity						

Method

Source

Notes

Considerations



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	(Big water flea)						
NOEC	Daphnia magna		0.0016 mg/L				
Effective dose	Species	Test duration	Value	Notes	Method	Source	Considerations
Aquatic chronic	toxicity						
	trout)						
	mykiss (Rainbow	,					
NOEC	Oncorhynchus		0.022 mg/L				

12.2 Persistence and degradability

<u>Mixtures</u>

This information is not available.

Substances

This information is not available.

12.3 Bioaccumulative potential

<u>Mixtures</u>

This information is not available.

Substances

2-octyl-2H-isothiazol-3-one - CAS: 26530-20-1

Assessment/classification	Test type	Test duration	Species:	Value	Method	Remark
Does not accumulate in	Partition coefficient n-			2,45		
organisms.	octanol/water (log value)				

12.4 Mobility in soil

<u>Mixtures</u>

This information is not available.

Substances

2-octyl-2H-isothiazol-3-one - CAS: 26530-20-1

Assessment/classification Te	est type	Test duration	parameter	Value	Method	Remark
Lo	og Koc			2120		

12.5 Results of PBT and vPvB assessment

 $The substances in the \ mixture \ do \ not \ meet \ the \ PBT/vPvB \ criteria \ according \ to \ REACH, annex \ XIII.$

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

This information is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

 $\underline{\text{Waste codes/waste designations according to EWC/AVV}}$

NO English translation

13.1.1 Disposal operations

Non-contaminated packages must be recycled or disposed of.

Dispose of waste according to applicable legislation.

13.1.2 Other disposal recommendations

Recycle according to official regulations.

SECTION 14: Transport information

Hazard pictograms



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14.1 UN number		
ADR/RID/ADN:	UN3082	
IMDG:	UN3082	
ICAO-TO/IATA-DGR:	UN3082	
14.2 UN proper shipping name		
ADR/RID/ADN:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-octyl-2H-isothiaz	ol-3-one)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-octyl-2H-isothiaz	ol-3-one)
ICAO-TO/IATA-DGR:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-octyl-2H-isothiaz	ol-3-one)
14.3 Transport hazard class(es)		
ADR/RID/ADN:	9	
IMDG:	9	
ICAO-TO/IATA-DGR:	9	
14.4 Packing group		
ADR/RID/ADN:	III	
IMDG:	III	
ICAO-TO/IATA-DGR:	III	
14.5 Environmental hazards		
ADR/RID/ADN:	ENVIRONMENTALLY HAZARDOUS	
IMDG:	ENVIRONMENTALLY HAZARDOUS Marine pollutant: Yes.	
ICAO-TO/IATA-DGR:	ENVIRONMENTALLY HAZARDOUS	
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ADR/RID/ADN:	Limited quantity (LQ)	5 L
	Excepted Quantities (EQ)	E1
	Special Provisions	274 335 375 601
	Classification code:	M6
	Transport category	3
	Tunnel restriction code	-
	Hazard identification number (Kemler No.)	90
IMDG:	Limited quantity (LQ)	5 L
	Excepted Quantities (EQ)	E1
	Special Provisions	274 335 969
	Segregation group	-
	Stowage	Category A
	EmS-No.	F-A,S-F
CAO-TO/IATA-DGR:	Limited quantity (LQ)	5 L
	Excepted Quantities (EQ)	E1
	Special Provisions	A97 A158 A197 A215
	Subsidiary Risks	-
	Emergency Response Guide Number	9L
	Passenger Aircraft/Rail	964
	Cargo Aircraft only	964

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 and subsequent amendments

Regulation (EC) No 1272/2008 (CLP) and subsequent amendments

Latest amendment

Commission delegated Regulation (EU) 2024/2865

Regulation (EU) No. 2020/878

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

Not relevant

Other regulations (EU)

This information is not available.

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Mixtures

Use restriction according to REACH annex XVII, no.: 3

Other relevant ingredients

Use restriction according to REACH annex XVII, no.: 75

2-octyl-2H-isothiazol-3-one (CAS: 26530-20-1; EINECS: 247-761-7; INDEX: 613-112-00-5)

$\underline{\text{Regulation (EC) No. } 1005/2009 \text{ on substances that lead to the depletion of the ozone layer}}$

not relevant



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Regulation (EU) 2019/1148 (marketing and use of explosives precursors) not relevant

 $\underline{\text{Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances}} \ [\text{Seveso-III-Directive}]$

Hazard categories: E1

National regulations

This information is not available.

15.2 Chemical Safety Assessment

 $Chemical\ safety\ assessments\ for\ substances\ in\ this\ mixture\ were\ not\ carried\ out.$

SECTION 16: Other information

Indication of changes

This safety data sheet has been completely updated

Abbreviations and acronyms

Abbreviations and acronyms Abbreviations and acronyms	Description
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable Organic halogen compounds
ATE	Acute Toxicity Estimate
ATEmix	Acute Toxicity Estimate for Mixtures
BCF	Bioconcentration Factor
BLV	Biological Limit Value
BOD	Biochemical (Biological) Oxygen Demand
bw	body weight
CAS	Chemical Abstracts Service
СК	Peak concentration
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic, toxic for Reproduction
CO2	Carbon dioxide
COD	Chemical Oxygen Demand
COSHH	Control of Substances Hazardous to Health
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DGR	Dangerous Goods Regulations (IATA)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
DOC	Dissolved Organic Carbon
DU	Downstream User
EbC50	Effective Concentration 50 % reduction in biomass
EC	European Community
EC10	Effective Concentration 10%
EC50	Effective Concentration 50%
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %
ELINCS	European Inventory of Existing Commercial Chemical Substances
EmS	emergency procedures
EN	European Standard
ErC10	Effective Concentration 10 % reduction in growth rate
ErC50	Effective Concentration 50 % reduction in growth rate
ES	Exposure Scenario
EU	European Union
EWC	European Waste Catalogue
GHS	Globally Harmonized System of Classification and Labelling of Chemicals



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IATA	International Air Transport Association
IC50	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International nomenclature of cosmetic ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
KOC	Partition coefficient n-octanol/water
LC50	Lethal (fatal) Concentration 50%
LD50	• • •
	Lethal (fatal) Dose 50%
LDL0	Lowest Lethal (fatal) Dose
LL50	Lethal Loading 50 %
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observable Effect Concentration
LOEL	Lowest Observable Effect Level
M-factor	Multiplication factor
NOAEC	no observed adverse effect concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
NOELR	No Observed Effect Level
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational exposure limit (EU)
PBT	persistent and bioaccumulative and toxic
PEC	Predicted Environmental Concentration
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
PROC	Process Category
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
STEL	Short-term Exposure Limit
STOT	Specific Target Organ Toxicity
STP	sewage treatment plant
SU	use category
SVHC	substance of very high concern
ThCO2	Theoretical carbon dioxide amount
TLV	Threshold Limit Value
TWA	Eight-hour time-weighted average exposure limit value
UN	United Nations
VOC	Volatile organic compounds
VOC	v oracine or garne compounds

Key literature references and sources for data

Regulation (EC) No. 1272/2008 on the classification, labelling, and packaging (Classification, Labelling and Packaging) of substances and mixtures.

Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/UE.

Guidance on the compilation of safety data sheets by ECHA

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

International Maritime Dangerous Goods Code (IMDG)

IATA Dangerous Goods Regulations (IATA DGR)

The ED Lists (List I: Substances identified as endocrine disruptors at EU level, List II: Substances under evaluation for endocrine disruption under an EU legislation, List III: Substances considered, by the evaluating National Authority, to have endocrine disrupting properties)

$\underline{\text{List of relevant hazard statements and/or precautionary statements from sections 2 to 15}$

Classification according to Regulation (EC) No 1272/2008 [CLP]	List of relevant hazard statements and/or precautionary statements from sections 2 to 15 $$
Skin Irrit. 2, H315	Causes skin irritation.



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Eye Irrit. 2, H319	Causes serious eye irritation.
Skin Sens. 1A, H317	May cause an allergic skin reaction.
Aquatic Acute 1, H400	Very toxic to aquatic life.
Aquatic Chronic 1, H410	Very toxic to aquatic life with long lasting effects.
oral Acute Tox. 3, H301	Toxic if swallowed.
dermal Acute Tox. 3, H311	Toxic in contact with skin.
inhalation Acute Tox. 2, H330	Fatal if inhaled.
Skin Corr. 1, H314	Causes severe skin burns and eye damage.
Eye Dam. 1, H318	Causes serious eye damage.
Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]	
Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Skin Irrit. 2, H315	
Eye Irrit. 2, H319	
Skin Sens. 1A, H317	
Aquatic Acute 1, H400	
Aquatic Chronic 1, H410	

Disclaimer: The information in this safety data sheet (SDS) applies only to the specified product, unless otherwise specified, for the mixture of this product and other substances, etc. Circumstances do not apply. This SDS only provides information on product safety for those who have received proper professional training. Users of this SDS must make independent judgments on the applicability of this SDS under special conditions of use. In special occasions, the writer of this SDS will not be responsible for any damage caused by using this SDS.