



Safety Data Sheet dated 31/7/2019, version 3
Regulation (EU) 2015/830

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

1.1. Product identifier

Identification of the mixture:

Trade name: ORION EXTRA
Trade code: 618.065

1.2. Relevant identified uses of the substance or mixture and uses advised against
Antifouling paint for propellers, shafts and stern feet.

1.3. Details of the supplier of the safety data sheet

Company:

BOERO BARTOLOMEO S.p.A. - Via Macaggi 19 - 16121 Genova - Tel. +39 010 55001 - Fax
+39 010 5500305 - CF/P. IVA/REG. IMPRESE DI GENOVA 00267120103

Competent person responsible for the safety data sheet:

sicurezzaprodotti@boero.it

1.4. Emergency telephone number

BOERO BARTOLOMEO S.p.A. - Tel.+39 010 55001

opening hours: Monday - Tuesday 9.00 am - 5.00 pm

UK: in an emergency the enquirer should call NHS 111/24/Direct (free-to-call medical helplines)
or a doctor.

MALTA: tel. 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Flam. Liq. 3, H226 Flammable liquid and vapour.

Eye Irrit. 2, H319 Causes serious eye irritation.

STOT SE 3, H335 May cause respiratory irritation.

Aquatic Acute 1, H400 Very toxic to aquatic life.

Aquatic Chronic 1, H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

P103 Read label before use.

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area.

P370+P378 In case of fire use CO₂ or chemical powder. Never use water.

P501 Dispose of contents/container according to local regulations.

Special Provisions:

None

Contains

hydrocarbons, C9, aromatics

xylene [4]

Hydrocarbons, C9-unsaturated, polymerized: May produce an allergic reaction.

Biocidal active substances: copper thiocyanate 13,86 % m/m (N. CAS 1111-67-7); zinc pyrithione 1,98 % m/m (N. CAS 13463-41-7) .

MALTA NOTIFICATION REFERENCE N.: 2018-06-22-B09

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

Adverse physicochemical, human health and environmental effects:

The main adverse physical-chemical effects for human health and the environment are listed in accordance with Sections 9 to 12 of the safety data sheet

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 15% - < 20% titanium dioxide

REACH No.: 01-2119489379-17-XXXX, CAS: 13463-67-7, EC: 236-675-5

Substance with a Union workplace exposure limit.

>= 15% - < 20% zinc oxide

REACH No.: 01-2119463881-32-XXXX, Index number: 030-013-00-7, CAS: 1314-13-2, EC: 215-222-5

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

>= 15% - < 20% hydrocarbons, C9, aromatics

EC: 918-668-5

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H335 May cause respiratory irritation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

STOT SE 3 H336 May cause drowsiness or dizziness.

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Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
DECLP (CLP)*

>= 12.5% - < 15% copper thiocyanate

Index number: 029-015-00-0, CAS: 1111-67-7, EC: 214-183-1
Aquatic Acute 1 H400 Very toxic to aquatic life. M=10.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=10.
EUH032 Contact with acids liberates very toxic gas.

>= 7% - < 8% xylene [4]

REACH No.: 01-2119488216-32-XXXX, CAS: 1330-20-7, EC: 215-535-7
Flam. Liq. 3 H226 Flammable liquid and vapour.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Acute Tox. 4 H332 Harmful if inhaled.
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Irrit. 2 H315 Causes skin irritation.

>= 4% - < 5% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29-XXXX, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9
Flam. Liq. 3 H226 Flammable liquid and vapour.

>= 1% - < 2% zinc pyrithione

CAS: 13463-41-7, EC: 236-671-3
Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H331 Toxic if inhaled.
Eye Dam. 1 H318 Causes serious eye damage.
Aquatic Acute 1 H400 Very toxic to aquatic life. M=100.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=10.

>= 1% - < 2% ethylbenzene

Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
STOT RE 2 H373 H373.5
Acute Tox. 4 H332 Harmful if inhaled.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

>= 0.5% - < 1% Hydrocarbons, C9-unsaturated, polymerized

REACH No.: 01-2119555292-40-XXXX, CAS: 71302-83-5, EC: 615-276-3
Skin Sens. 1,1A,1B H317 May cause an allergic skin reaction.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

>= 0.01% - < 0.1% carbon black

REACH No.: 01-2119384822-32-XXXX, CAS: 1333-86-4, EC: 215-609-9
Substance with a Union workplace exposure limit.

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>= 0.0015% - < 0.01% methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

REACH No.: 01-2119452498-28-xxxx, Index number: 607-035-00-6, CAS: 80-62-6, EC: 201-297-1

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

STOT SE 3 H335 May cause respiratory irritation.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1,1A,1B H317 May cause an allergic skin reaction.

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

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

Causes serious eye irritation.

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

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire use CO2 or chemical powder. Never use water.

Extinguishing media which must not be used for safety reasons:

Do not use water jets

None in particular.

5.2. Special hazards arising from the substance or mixture

Avoid inhaling the fumes.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain

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contaminated washing water and dispose it.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Wear breathing apparatus if exposed to vapours/dusts/aerosols.
 - Provide adequate ventilation.
 - Use appropriate respiratory protection.
 - See protective measures under point 7 and 8.
- 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.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Adequately ventilated premises.
 - Use localized ventilation system.
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Always keep the containers tightly closed.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - None in particular.
 - Instructions as regards storage premises:
 - Cool and adequately ventilated.
 - Adequately ventilated premises.
- 7.3. Specific end use(s)
 - See section 1.2

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
 - titanium dioxide - CAS: 13463-67-7
 - EU - TWA(8h): 10 mg/m³
 - AGS - TWA(8h): 5 mg/m³
 - MAK - STEL: 3 mg/m³
 - ACGIH - TWA(8h): 10 mg/m³ - Notes: A4 - LRT irr

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HRKGVI - Notes: 4 mg/m³ (R respirabilna prašina)
VLE1 - Notes: 10 mg/m³ (U ukupna prašina)

zinc oxide - CAS: 1314-13-2
ACGIH - TWA(8h): 2 mg/m³ - STEL: 10 mg/m³ - Notes: (R) - Metal fume fever
VLE1 - TWA: 5 mg/m³
VLE - STEL: 10 mg/m³

hydrocarbons, C9, aromatics
EU - STEL: 100 mg/m³, 20 ppm
AGS - TWA(8h): 250-350 mg/m³

xylene [4] - CAS: 1330-20-7
EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
AGS - TWA(8h): 221 mg/m³ - STEL((15 min)): 442 mg/m³ - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)
ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
AGS - TWA(8h): 221 mg/m³ - STEL((15 min)): 442 mg/m³ - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)
VLE1 - TWA(8h): 211 mg/m³, 50 ppm
VLE - STEL: 442 mg/m³, 100 ppm - Notes: Skin

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin
HR - TWA(8h): 275 mg/m³, 50 ppm
HRKGVI - STEL: 550 mg/m³, 100 ppm

ethylbenzene - CAS: 100-41-4
EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin
AGS - TWA(8h): 200 mg/m³ - STEL((15 min)): 450 mg/m³
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
VLE1 - TWA(8h): 442 mg/m³, 100 ppm
VLE - STEL: 884 mg/m³, 200 ppm

carbon black - CAS: 1333-86-4
EU - TWA(8h): 3 mg/m³
ACGIH - TWA(8h): 3 mg/m³ - Notes: (I), A3 - Bronchitis

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate - CAS: 80-62-6
EU - TWA(8h): 50 ppm - STEL: 100 ppm
ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: DSEN, A4 - URT and eye irr, body weight eff, pulm edema

DNEL Exposure Limit Values

titanium dioxide - CAS: 13463-67-7
Worker Industry: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 700 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

hydrocarbons, C9, aromatics
Worker Industry: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 150 mg/m³ - Consumer: 32 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

xylene [4] - CAS: 1330-20-7
Worker Industry: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation -

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Frequency: Short Term, systemic effects

Worker Industry: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 153.5 mg/kg - Worker Professional: 153.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 275 mg/kg - Worker Professional: 275 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 54.8 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 33 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

titanium dioxide - CAS: 13463-67-7

Target: Marine water - Value: 1 mg/L

Target: Fresh Water - Value: 0.127 mg/L

Target: Microorganisms in sewage treatments - Value: 100 mg/L

Target: Marine water sediments - Value: 100 mg/kg

Target: Freshwater sediments - Value: 1000 mg/kg

xylene [4] - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/L

Target: Marine water - Value: 0.327 mg/L

Target: Freshwater sediments - Value: 12.46 mg/kg

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Microorganisms in sewage treatments - Value: 6.58 mg/L

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Fresh Water - Value: 0.635 mg/L

Target: Marine water - Value: 0.0635 mg/L

Target: Microorganisms in sewage treatments - Value: 100 mg/L

Target: Freshwater sediments - Value: 3.29 mg/kg

Target: Marine water sediments - Value: 0.329 mg/kg

Biological Exposure Index

xylene [4] - CAS: 1330-20-7

Value: 1.50 mg/L - medium: Blood - Sampling Period: End of turn

Value: 1.50 gg creatinina - medium: Blood - Sampling Period: End of turn

ethylbenzene - CAS: 100-41-4

Value: 1.50 mg/L - medium: Blood - Sampling Period: DU

Value: 2 ppm - medium: Air at the end of exhalation - Sampling Period: A

Value: 1.50 gg creatinina - medium: Urine - Biological Indicator: 78 - Sampling Period: End of turn; End of working week

8.2. Exposure controls

Eye protection:

Use goggles/face mask certified UNI EN 166.

Use close fitting safety goggles, don't use eye lens.

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Protection for skin:

Suitable protective clothing is required for complete skin protection: for example coveralls with long sleeves and trousers, rubber boots and apron, etc., according to UNI EN 14325.

Protection for hands:

Use protective gloves: waterproof rubber gloves certified UNI EN 374. Nitrile gloves provide good protection. Use care in selecting a penetration time of the gloves longer than the foreseen usage time.

Respiratory protection:

Use adequate protective respiratory equipment: a carbon filter mask with filters certified UNI EN 149 or dust masks certified UNI EN 140. Filters of types A and P types may be considered.

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

None

Environmental exposure controls:

See sections 6 and 13

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance :	liquid
Odour:	N.A.
Colour:	grey VOLVO PENTA
pH:	N.A.
Melting point / freezing point:	N.A.
Boiling point (°C):	bp>35 °C
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	36 °C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Specific gravity (Kg/L) 20°C :	1.6233
Methodology:	
Solubility in water:	N.A.
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Kinematic viscosity at 40°C (mm ² /s):	kv > 20,5
Viscosity (23°C±0.5°C): min 6500 - max 8000	
Methodology: BROOKFIELD (cP)	
Spindle: 5	
Speed (rpm): 10	

9.2. Other information

No further information

SECTION 10: Stability and reactivity

10.1. Reactivity

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- Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
 - None
- 10.4. Conditions to avoid
 - Stable under normal conditions.
- 10.5. Incompatible materials
 - Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
 - None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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- a) acute toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
 - Not classified
 - Based on available data, the classification criteria are not met
- c) serious eye damage/irritation
 - The product is classified: Eye Irrit. 2 H319
- d) respiratory or skin sensitisation
 - Not classified
 - Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
 - Not classified
 - Based on available data, the classification criteria are not met
- f) carcinogenicity
 - Not classified
 - Based on available data, the classification criteria are not met
- g) reproductive toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
- h) STOT-single exposure
 - The product is classified: STOT SE 3 H335
- i) STOT-repeated exposure
 - Not classified
 - Based on available data, the classification criteria are not met
- j) aspiration hazard
 - Not classified
 - Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

titanium dioxide - CAS: 13463-67-7

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 10.000 mg/kg

hydrocarbons, C9, aromatics

a) acute toxicity:

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- Test: LD50 - Route: oral - Species: rat > 3492 mg/kg
Test: LD50 - Route: dermal - Species: rat > 3160 mg/kg
Test: LC50 - Route: inhalation - Species: rat > 6193 mg/m³ - Duration: 4h
xylene [4] - CAS: 1330-20-7
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 3500 mg/kg
Test: LD50 - Route: dermal - Species: rabbit > 4200 mg/kg
Test: LC50 - Route: inhalation of vapours - Species: rat > 20 ml/l
c) serious eye damage/irritation:
Test: Eye Irritant Positive
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 5000 mg/kg
Test: LC50 - Route: inhalation - Species: rat > 10.6 mg/kg
Test: LD50 - Route: dermal - Species: rat > 2000 mg/kg
b) skin corrosion/irritation:
Test: Skin Corrosive - Species: rabbit Negative
ethylbenzene - CAS: 100-41-4
a) acute toxicity:
Test: LC50 - Route: inhalation - Species: rat = 17.2 mg/l - Duration: 4h
carbon black - CAS: 1333-86-4
a) acute toxicity:
Test: LD50 - Route: oral - Species: rat > 8000 mg/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Route: dermal - Species: rabbit Negative

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

titanium dioxide - CAS: 13463-67-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: OECD 202

hydrocarbons, C9, aromatics

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48

xylene [4] - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1 ml/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae 18204.2 5 mg/l - Duration h: 72

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 400 mg/l - Duration h: 48

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zinc pyriithione - CAS: 13463-41-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.0026 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 0.0082 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 0.0012 mg/l - Duration h: 120

carbon black - CAS: 1333-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1000 mg/l - Duration h: 96 - Notes: OECD TG 203

Endpoint: EC50 - Species: Daphnia = 5600 mg/l - Duration h: 24 - Notes: OECD 202

f) Effects in sewage plants:

Endpoint: EC50 > 800 mg/l - Duration h: 3 - Notes: TTC TEST

12.2. Persistence and degradability

There is no data available on the preparation itself.

N.A.

12.3. Bioaccumulative potential

There is no data available on the preparation itself.

N.A.

12.4. Mobility in soil

There is no data available on the preparation itself.

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Directives 91/156/CEE, 91/689/CEE, 94/62/CE.

EWC CODE 080111

Do not empty into drains, ground or waterways. Dispose of product residues and related containers at a collection point for hazardous or special waste or, where appropriate, through an authorized waste disposal company.

SECTION 14: Transport information

14.1. UN number

UN 1263

14.2 Proper shipping name: Paint.

14.3 Transport hazard class(es) and Packing Group:

3 PG III

14.4. Environmental hazards

Marine Pollutant: Yes

14.5. Special precautions for user

None

Other informations

Land transport ADR/RID

ADR Classification code: F1

Maximum quantity for Limited Quantities: 5L/Kg

Tunnel code :D/E

Transport category: 3

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Marittime transport (IMDG)

Maximum quantity for Limited Quantities: 5L/Kg

EmS number: F-E/S-E

Stowage provisions: A

Air transport(IATA/ICAO)

Maximum quantity for Limited Quantities: 5L/Kg

Pkg. inst. passenger and cargo aircraft: 309

Pkg. inst. cargo aircraft only: 310

Erg-code: 3L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 89/391/CEE and subsequent amendments (Risks related to chemical agents at work and Occupational exposure limit values). Directive 1999/13/EC and subsequent amendments (limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations). Regulation (CE) n. 1907/2006 , Regulation (CE) 830/2015 and subsequent amendments (concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH). Regulation (CE) n.1272/2008 and subsequent amendments (on classification, labeling and packaging of substances and mixtures - CLP).

International Maritime Dangerous Goods Code, IATA Dangerous Goods Regulation, International Carriage of Dangerous Goods by Road (ADR).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restriction 3 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Restriction 40 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Where applicable, refer to the following regulatory provisions :

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

Regulation UE No 649/2012 concerning the export and import of dangerous chemicals.

Regulation UE n. 528/2012 concerning the making available on the market and use of biocidal products.

Directive 2012/18/EU (Seveso III)

Regulation (EC) No. 648/2004 (detergents).

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

Regulation (EC) No 689/2006 concerning the export and import of dangerous chemicals.

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c, E1

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

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Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Acute 1, H400	Calculation method

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Aquatic Chronic 1, H410	Calculation method
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This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.