

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: SDS-23625-10 Issue date: 6/23/2025 Version: 1.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product form : Mixture

Trade name : EXPLORER AFR800 ECOMAR White

Product group : Trade product

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

#### Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Paint. For professional users/industrial user only.

Uses advised against

Restrictions on use : All uses not specified in this section or in section 7.3

# 1.3. Details of the supplier of the safety data sheet

#### Supplier

Vilckens Boyaları San. Tic. Ltd. Postane Mahallesi Esentepe Caddesi Manastır Yolu No:21 34940 Tuzla / İstanbul Türkiye

T 0212 356 93 56 - F 0212 356 95 00

## 1.4. Emergency telephone number

No additional information available

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Acute Hazard,	H400
Category 1	

Hazardous to the aquatic environment – Chronic Hazard, H410

Category 1

Full text of H- and EUH-statements: see section 16

# Adverse physicochemical, human health and environmental effects

Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects. Flammable liquid and vapour.

# 2.2. Label elements

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

Hazard pictograms (CLP)









GHS02

GHS05

GHS07

GHS09

Signal word (CLP)
Contains

: Danger

: Xylene; Rosin; Dicopper oxide; Zineb (ISO); Bis(1-hydroxy-1H-pyridine-2-thionato-

O,S)copper



Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H312+H332 - Harmful in contact with skin or if inhaled.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

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

Precautionary statements (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

 ${\tt P280-Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection}.$ 

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

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 - In case of fire: Use media other than water for extinction.

P403+P235 - Store in a well-ventilated place. Keep cool.

 $\ensuremath{\mathsf{P501}}$  - Dispose of contents/container to hazardous or special waste collection point,

in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

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

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 %

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.2. Mixtures

Comments : Miscellaneous products

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Xylene (Note C)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9	25 – 50	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315
Rosin	CAS-No.: 8050-09-7 EC-No.: 232-475-7 EC Index-No.: 650-015-00-7	10 – 25	Skin Sens. 1, H317
Dicopper oxide	CAS-No.: 1317-39-1 EC-No.: 215-270-7 EC Index-No.: 029-002-00- X	10 – 25	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)
Copper thiocyanate	CAS-No.: 1111-67-7 EC-No.: 214-183-1 EC Index-No.: 029-015-00- 0	10 – 25	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)



Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc oxide	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7	2.5 – 10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-butyl acetate	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1	2.5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
Zineb (ISO)	CAS-No.: 12122-67-7 EC-No.: 235-180-1 EC Index-No.: 006-078-00-2	2.5 – 10	Skin Sens. 1, H317 STOT SE 3, H335
Bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper	CAS-No.: 14915-37-8 EC-No.: 238-984-0	<1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.5 mg/l/4h) Eye Dam. 1, H318 Aquatic Acute 1, H400

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. 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 : In all cases of doubt, or when symptoms persist, seek medical attention. Call a poison center or a doctor if you feel unwell. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after skin contact : Harmful in contact with skin. Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

# **SECTION 5: FIREFIGHTING MEASURES**

# 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : Contact with combustible material may cause fire. Explosion hazard : Risk of explosion if heated under confinement.

Hazardous decomposition products in case of : On heating or during combustion: Toxic fumes may be released.

fire



#### 5.3. Advice for firefighters

Precautionary measures fire : Keep away from combustible materials. Keep container closed when not in use. Approach from upwind.

: Exercise caution when fighting any chemical fire. Keep upwind. Do not enter fire Firefighting instructions

area without proper protective equipment, including respiratory protection. Eliminate all ignition sources if safe to do so. Contain the extinguishing fluids by

bunding.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

: Do not allow run-off from fire fighting to enter drains or water courses. Notify Other information authorities if product enters sewers or public waters. High temperature

decomposition products are harmful by inhalation. Inhalation of vapour can cause

breathing difficulties.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away from danger area.

For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

**Emergency procedures** : Ventilate spillage area. Do not touch or walk on the spilled product. Notify fire

brigade and environmental authorities. Avoid contact with skin, eyes and clothing.

Avoid breathing dust/fume/gas/mist/vapours/spray.

For emergency responders

: Do not attempt to take action without suitable protective equipment. For further Protective equipment

information refer to section 8: "Exposure controls/personal protection".

**Emergency procedures** : Evacuate unnecessary personnel. Equip cleanup crew with proper protection. Stop

leak if safe to do so. Prevent from entering sewers, basements and workpits, or any

place where its accumulation can be dangerous.

#### 6.2. Environmental precautions

Avoid release to the environment.

# 6.3. Methods and material for containment and cleaning up

: Do not touch or walk on the spilled product. Collect spillage. For containment

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

# 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

# **SECTION 7: HANDLING AND STORAGE**

# 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated

area. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after

handling the product. Wash contaminated clothing before reuse. Contaminated

work clothing should not be allowed out of the workplace.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place.

Incompatible products : Strong acids. Strong bases. Strong oxidizing agents.

Incompatible materials : Extremely high or low temperatures.

Maximum storage period : 6 months : 5 − 30 °C Storage temperature



Heat and ignition sources : Keep away from heat and direct sunlight. Keep away from sources of ignition.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

Storage area : Store, if possible, in a cool, well ventilated place away from incompatible materials.

Germany

Storage class (LGK, TRGS 510) : LGK 3 - Flammable liquids

Joint storage table : LGK 3 - Flaminiable liquids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for : LGK 1, LGK 2A, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1C, LGK 5.2,

LGK 6.1B, LGK 6.2, LGK 7

Joint storage with restrictions permitted for : LGK 5.1B, LGK 6.1D, LGK 11, LGK 10-13

Joint storage permitted for : LGK 2B, LGK 3, LGK 6.1A, LGK 6.1C, LGK 8A, LGK 8B, LGK 10, LGK 12, LGK 13

# 7.3. Specific end use(s)

See Section 1.2.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

# 8.1. Control parameters

National occupational exposure and biological limit values

Xvlene (	

#### **EU - Indicative Occupational Exposure Limit (IOEL)**

Local name Xylene, mixed isomers, pure

IOEL TWA 221 mg/m<sup>3</sup> (pure)

50 ppm (pure)

IOEL STEL 442 mg/m³ (pure)

100 ppm (pure)

Remark Possibility of significant uptake through the skin (pure)

Regulatory reference COMMISSION DIRECTIVE 2000/39/EC

#### **Germany - Occupational Exposure Limits (TRGS 900)**

Local name Xylol (alle Isomere)

AGW (OEL TWA) 220 mg/m³ (all isomers)

50 ppm (all isomers)

Peak exposure limitation factor 2(II)

Remark DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der

DFG (MAK-Kommission); EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind

möglich); H - hautresorptiv

Chemical category Skin notation all isomers

Regulatory reference TRGS900

Germany - Biological limit values (TRGS 903)

Local name Xylol (alle Isomere)

Biological limit value 2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine -

Sampling time: end of exposure or shift (all isomers)

Regulatory reference TRGS 903



# Dicopper oxide (1317-39-1)

# **EU - Indicative Occupational Exposure Limit (IOEL)**

Local name Copper(I) oxide

IOEL TWA 0.01 mg/m³ (respirable fraction)

Remark (Year of adoption 2014)

Regulatory reference SCOEL Recommendations

# N-butyl acetate (123-86-4)

# **EU - Indicative Occupational Exposure Limit (IOEL)**

Local name n-Butyl acetate

IOEL TWA 241 mg/m<sup>3</sup>

50 ppm

IOEL STEL 723 mg/m<sup>3</sup>

150 ppm

Regulatory reference COMMISSION DIRECTIVE (EU) 2019/1831

# **Germany - Occupational Exposure Limits (TRGS 900)**

Local name n-Butylacetat

AGW (OEL TWA) 300 mg/m<sup>3</sup>

62 ppm

Peak exposure limitation factor 2(I)

Remark AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei

Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind

möglich)

Regulatory reference TRGS900

# **DNEL and PNEC**

# Xylene (1330-20-7)

# **DNEL/DMEL (Workers)**

Acute - systemic effects, inhalation 442 mg/m<sup>3</sup>

Acute - local effects, inhalation 442 mg/m<sup>3</sup>

Long-term - systemic effects, dermal 212 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 221 mg/m³
Long-term - local effects, inhalation 221 mg/m³

**DNEL/DMEL (General population)** 

Acute - systemic effects, inhalation 260 mg/m<sup>3</sup>
Acute - local effects, inhalation 260 mg/m<sup>3</sup>

Long-term - systemic effects, oral 12.5 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 65.3 mg/m<sup>3</sup>

Long-term - systemic effects, dermal 125 mg/kg bodyweight/day

Long-term - local effects, inhalation 65.3 mg/m<sup>3</sup>

PNEC (Water)

PNEC aqua (freshwater) 0.327 mg/l



Xylene (1330-20-7)

PNEC aqua (marine water) 0.327 mg/l
PNEC aqua (intermittent, freshwater) 0.327 mg/l

**PNEC (Sediment)** 

PNEC sediment (freshwater) 12.46 mg/kg dwt
PNEC sediment (marine water) 12.46 mg/kg dwt

PNEC (Soil)

PNEC soil 2.31 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 6.58 mg/l

Rosin (8050-09-7)

**DNEL/DMEL (Workers)** 

Long-term - systemic effects, dermal 2.131 mg/kg bodyweight/day

Long-term - local effects, inhalation 10 mg/m<sup>3</sup>

**DNEL/DMEL (General population)** 

Long-term - systemic effects,oral 1.0655 mg/kg bodyweight/day Long-term - systemic effects, dermal 1.0655 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)

PNEC aqua (marine water)

O.0016 mg/l

PNEC aqua (intermittent, freshwater)

O.016 mg/l

**PNEC (Sediment)** 

PNEC sediment (freshwater)

0.007 mg/kg dwt

PNEC sediment (marine water)

0.0007 mg/kg dwt

PNEC (Soil)

PNEC soil 0.00045 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 1000 mg/l

**Dicopper oxide (1317-39-1)** 

**DNEL/DMEL (Workers)** 

Long-term - systemic effects, dermal 137 mg/kg bodyweight/day

 $\label{long-term-systemic effects, inhalation} $1\ \mathrm{mg/m^3}$ $$ Long-term - local effects, inhalation $1\ \mathrm{mg/m^3}$$ 

**DNEL/DMEL (General population)** 

Acute - systemic effects, oral 0.082 mg/kg bodyweight/day

Long-term - systemic effects, oral 0.041 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 7.8  $\mu$ g/l PNEC aqua (marine water) 5.2  $\mu$ g/l

**PNEC (Sediment)** 

PNEC sediment (freshwater) 87 mg/kg dwt



Dicopper oxide (1317-39-1)

PNEC sediment (marine water) 676 mg/kg dwt

PNEC (Soil)

PNEC soil 65 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 230 µg/l

zinc oxide (1314-13-2)

**DNEL/DMEL (Workers)** 

Long-term - systemic effects, dermal 83 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 5 mg/m³
Long-term - local effects, inhalation 0.5 mg/m³

**DNEL/DMEL (General population)** 

Long-term - systemic effects,oral 0.83 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 2.5 mg/m<sup>3</sup>

Long-term - systemic effects, dermal 83 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) 20.6 μg/l PNEC aqua (marine water) 6.1 μg/l

**PNEC (Sediment)** 

PNEC sediment (freshwater) 117.8 mg/kg dwt
PNEC sediment (marine water) 56.5 mg/kg dwt

PNEC (Soil)

PNEC soil 35.6 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant  $100 \mu g/l$ 

N-butyl acetate (123-86-4)

**PNEC** (Water)

PNEC aqua (freshwater)

O.18 mg/l

PNEC aqua (marine water)

O.018 mg/l

PNEC aqua (intermittent, freshwater)

O.36 mg/l

**PNEC (Sediment)** 

PNEC sediment (freshwater) 0.981 mg/kg dwt
PNEC sediment (marine water) 0.0981 mg/kg dwt

PNEC (Soil)

PNEC soil 0.0903 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 35.6 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.



#### Personal protection equipment

# Personal protective equipment:

Gloves. Safety glasses. Wear protective clothing. Wear foot protection. Gas mask.

#### Personal protective equipment symbol(s):











#### Eye and face protection

#### Eve protection:

Safety glasses. Use splash goggles when eye contact due to splashing is possible

#### Skin protection

# Skin and body protection:

According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn

#### Hand protection

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The breakthrough time of the selected gloves must be greater than the intended use period. Gloves must be replaced after each use and whenever signs of wear or perforation appear

# **Respiratory protection**

Upper explosion limit

Particle characteristics

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

#### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : White
Molecular mass : 107.57 g/mol

Odour : According to product specification.

: Not available

: Not applicable

Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not available
Boiling point : 135 °C
Flammability : Not applicable
Lower explosion limit : Not available

Flash point : 25 °C
Auto-ignition temperature : 421 °C
Decomposition temperature : Not available
pH : Not available
Viscosity, kinematic : 0.96 mm²/s
Viscosity, dynamic : 1.49 cP
Solubility : Not available

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : 812 Pa
Vapour pressure at 50°C : 4393.3 Pa
Density : 1420 – 1480 kg/m³
Relative density : 1.42 – 1.48
Relative vapour density at 20°C : Not available



#### 9.2. Other information

#### Other safety characteristics

VOC content : 29.1% Average carbon number : 7,73

# **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Risk of combustion:Increase in temperature. Avoid direct impact: Sunlight.

# 10.5. Incompatible materials

Avoid strong acids. Avoid alkalis or strong bases.

# 10.6. Hazardous decomposition products

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide ( $CO_2$ ), carbon monoxide and other organic compounds.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met).

Acute toxicity (dermal) : Harmful in contact with skin.

Acute toxicity (inhalation) : Harmful if inhaled.

EXPLORER AFR800 ECOMAR White	
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h

Xylene (1330-20-7)	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male

Rosin (8050-09-7)	
LD50 oral rat	7800 mg/kg Source: IUCLID
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	2500 mg/kg
LD50 dermal	2500 mg/kg
LC50 Inhalation - Rat	2.3 mg/l
LC50 Inhalation - Rat (Dust/Mist)	2.3 mg/l/4h



STOT-single exposure

# SAFETY DATA SHEET EXPLORER AFR800 ECOMAR White

Dicopper oxide (1317-39-1)

LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

 zinc oxide (1314-13-2)

 LD50 oral rat
 ≥ 5000 (2000 – 5000) mg/kg

 LD50 dermal rat
 > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

 LC50 Inhalation - Rat
 1.79 – 5.7 mg/l/4h

N-butyl acetate (123-86-4) LD50 oral rat 10760 – 12789 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male / female, Experimental value, Oral, 14 day(s)) LD50 oral 10736 mg/kg LD50 dermal rabbit > 14112 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) LD50 dermal 17600 mg/kg LC50 Inhalation - Rat 0.74 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s)) LC50 Inhalation - Rat (Vapours) 1802 mg/l/4h Source: ECHA

Skin corrosion/irritation : Causes skin irritation.

# N-butyl acetate (123-86-4) pH 6.2 Temp.: 20 °C Concentration: 5,3 g/L

Serious eye damage/irritation : Causes serious eye damage.

N-butyl acetate (123-86-4)	
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)

zinc oxide (1314-13-2)	
NOAEL (oral, rat)	31.52 mg/kg bodyweight

: Not classified (Based on available data, the classification criteria are not met)

N-butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.

Zineb (ISO) (12122-67-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)



zinc oxide (1314-13-2)	
LOAEL (dermal, rat/rabbit, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	500 μg/m <sup>3</sup>

N-butyl acetate (123-86-4)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Xylene (1330-20-7)	
Viscosity, kinematic	0.74 mm <sup>2</sup> /s

N-butyl acetate (123-86-4)	
Viscosity, kinematic	0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

# 11.2. Information on other hazards

No additional information available

# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

: Very toxic to aquatic life with long lasting effects. Ecology - general

: Very toxic to aquatic life. Hazardous to the aquatic environment, short—

term (acute)

Hazardous to the aquatic environment, long-

: Very toxic to aquatic life with long lasting effects.

term (chronic)

Xylene (1330-20-7)	
LC50 - Fish [1]	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	2.661 – 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
EC50 - Crustacea [2]	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'

Rosin (8050-09-7)	
LC50 - Fish [1]	5.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	5.4 mg/l Test organisms (species):
EC50 - Crustacea [1]	4.5 mg/l



zinc oxide (1314-13-2)

LC50 - Fish [1]  $112 - 8062 \mu g/l$  EC50 - Crustacea [1]  $155 - 100000 \mu g/l$ 

NOEC chronic fish 530  $\mu$ g/l NOEC chronic crustacea 300  $\mu$ g/l NOEC chronic algae 1071  $\mu$ g/l

N-butyl acetate (123-86-4)

LC50 - Fish [1] 18 mg/l Test organisms (species): Pimephales promelas

EC50 - Crustacea [1] 44 mg/l Test organisms (species): Daphnia sp.

EC50 72h - Algae [1] 397 mg/l Test organisms (species): Raphidocelis subcapitata (previous names:

Pseudokirchneriella subcapitata, Selenastrum capricornutum)

EC50 72h - Algae [2] 246 mg/l Test organisms (species): Raphidocelis subcapitata (previous names:

Pseudokirchneriella subcapitata, Selenastrum capricornutum)

ErC50 algae 397 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella

subcapitata, Static system, Fresh water, Read-across, GLP)

LOEC (chronic) 47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic) 23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC chronic algae 296 mg/l

# 12.2. Persistence and degradability

EXPLORER AFR80	0 ECOMAR	White
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Persistence and degradability Not rapidly degradable

# Xylene (1330-20-7)

Persistence and degradability Not rapidly degradable

# Rosin (8050-09-7)

Persistence and degradability

Not rapidly degradable

# Dicopper oxide (1317-39-1)

Persistence and degradability Not rapidly degradable

# Copper thiocyanate (1111-67-7)

Persistence and degradability Not rapidly degradable

# zinc oxide (1314-13-2)

Persistence and degradability Not rapidly degradable

# N-butyl acetate (123-86-4)

Persistence and degradability Readily biodegradable in water.

ThOD 2.21 g O2/g substance

# Zineb (ISO) (12122-67-7)

Persistence and degradability

Not rapidly degradable

# Bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper (14915-37-8)

Persistence and degradability Not rapidly degradable



# 12.3. Bioaccumulative potential

Xylene (1330-20-7)	
BCF - Fish [1]	0.6 – 15
Partition coefficient n-octanol/water (Log Pow)	2.77 – 3.15

N-butyl acetate (123-86-4)	
Partition coefficient n-octanol/water (Log Pow)	2.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

#### 12.4. Mobility in soil

N-butyl acetate (123-86-4)	
Surface tension	61.3 mN/m (20 °C, 0.1 %, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.268 – 1.844 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

#### 12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Xylene (1330-20-7), N-butyl acetate (123-86-4)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Xylene (1330-20-7), N-butyl acetate (123-86-4)

# 12.6. Endocrine disrupting properties

No additional information available

# 12.7. Other adverse effects

No additional information available

# **SECTION 13: DISPOSAL CONSIDERATIONS**

# 13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting

instructions.

 $Product/Packaging \ disposal \ recommendations \quad : \quad Completely \ empty \ the \ packaging \ prior \ to \ decontamination. \ Recycle \ the \ material \ as$ 

far as possible. Comply with local regulations for disposal.

Ecological waste information : Avoid release to the environment.

 $European \ List \ of \ Waste \ (LoW, \ EC \ 2000/532) \qquad : \ \ 08 \ 01 \ 11^* \ - \ waste \ paint \ and \ varnish \ containing \ organic \ solvents \ or \ other \ dangerous$ 

substances

# **SECTION 14: TRANSPORT INFORMATION**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1263	UN 1263	UN 1263	UN 1263	UN 1263
14.2. UN proper shipping name				
PAINT	PAINT	Paint	PAINT	PAINT



ADR	IMDG	IATA	ADN	RID	
Transport document des	Transport document description				
UN 1263 PAINT, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT, 3, III, MARINE POLLUTANT/ENVIRONM ENTALLY HAZARDOUS	UN 1263 Paint, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS	
14.3. Transport hazard c	lass(es)				
3	3	3	3	3	
3	3	3	3	3	
14.4. Packing group					
III	III	III	III	III	
14.5. Environmental hazards					
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	
No supplementary information available					

# 14.6. Special precautions for user

**Overland transport** 

Classification code (ADR) : F1

Special provisions (ADR) : 163, 367, 650

Limited quantities (ADR) : 51 : E1 Excepted quantities (ADR)

: P001, IBC03, LP01, R001 Packing instructions (ADR)

: PP1 Special packing provisions (ADR) Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T2

Portable tank and bulk container special : TP1, TP29

provisions (ADR)

: LGBF Tank code (ADR) Vehicle for tank carriage : FL : 3 Transport category (ADR) Special provisions for carriage - Packages : V12

(ADR)

Special provisions for carriage - Operation

(ADR)

Hazard identification number (Kemler No.)

Orange plates

: S2 30

30

1263

Tunnel restriction code (ADR)

Transport by sea

Special provisions (IMDG) : 163, 223, 367, 955

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P001, LP01 : PP1

Special packing provisions (IMDG) : IBC03 IBC packing instructions (IMDG) Tank instructions (IMDG) : T2



Tank special provisions (IMDG) : TP1, TP29

Stowage category (IMDG) : A

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3, A72, A192

ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 163, 367, 650

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1

Special provisions (RID) : 163, 367, 650

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions : T2

(RID)

Portable tank and bulk container special : TP1, TP29

provisions (RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages : W12

(RID)

Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

# 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

**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 substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Zineb (12122-67-7)



#### **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

#### VOC Directive (2004/42)

VOC content : 29.1%

#### Explosives Precursors Regulation (EU 2019/1148)

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

#### **Drug Precursors Regulation (EC 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)

#### National regulations

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in

Employment (JArbSchG).

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Major Accidents Ordinance (12. BlmSchV) : Is not subject to the Major Accidents Ordinance (12. BlmSchV)

VOC content : 29.1%

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: OTHER INFORMATION**

Abbreviations and acronyms:			
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		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		



Abbreviations and acronyms:

NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level
NOEC No-Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

OEL Occupational Exposure Limit

PBT Persistent Bioaccumulative Toxic

PNEC Predicted No-Effect Concentration

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS Safety Data Sheet

STP Sewage treatment plant

ThOD Theoretical oxygen demand (ThOD)

TLM Median Tolerance Limit

VOC Volatile Organic Compounds

CAS-No. Chemical Abstract Service number

N.O.S. Not Otherwise Specified

vPvB Very Persistent and Very Bioaccumulative

CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

IOELV Indicative Occupational Exposure Limit Value

Pow (log) n-octanol/water partition coefficient

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

WGK Water Hazard Class

Data sources : Classification according to Regulation (EC) No. 1272/2008 [CLP]. ECHA (European

Chemicals Agency). Supplier's safety documents.

# Full text of H- and EUH-statements:

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

Acute Tox. 4 (Dermal) Acute toxicity (dermal), Category 4

Acute Tox. 4 Acute toxicity (inhalation:dust,mist) Category 4

(Inhalation:dust,mist)

Acute Tox. 4 (Oral) Acute toxicity (oral), 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

Eye Dam. 1 Serious eye damage/eye irritation, Category 1

Flam. Liq. 3 Flammable liquids, Category 3
Skin Irrit. 2 Skin corrosion/irritation, Category 2
Skin Sens. 1 Skin sensitisation, Category 1

STOT SE 3 Specific target organ toxicity – Single exposure, Category 3, Narcosis

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.



Full text of H- and EUH-statements:		
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Acute Tox. 4 (Dermal)	H312	Calculation method
Acute Tox. 4 (Inhalation)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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