Safety Data Sheet
Antique copper effect

Safety Data Sheet dated 10/20/2017, version 1

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: Antique copper effect

Other means of identification:

Trade code: 6ES1002

Recommended use of the chemical and restrictions on use

Recommended use:Surface coating

Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company:

Sirca S.p.A.

Address:

Viale Roma, 85
35010 S.Dono di Massanzago (PD) - ITALY
Tel. +39 0499322311

Distributed by:

GEMINI INDUSTRIES, INC.
2300 Holloway Drive
El Reno, OK 73036
USA
Tel. 1-800-262-5710
Fax 1-405-262-9310
www.gemini-coatings.com

Competent person responsible for the safety data sheet:

safety@sirca.it

Emergency phone number

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
1-800-424-9300 / +1 703-527-3887.

2. HAZARD(S) IDENTIFICATION

Classification of the chemical


Danger, Flam. Liq. 2, Highly flammable liquid and vapour.


Warning, Skin Irrit. 2, Causes skin irritation.


Warning, Eye Irrit. 2A, Causes serious eye irritation.


Warning, Carc. 2, Suspected of causing cancer.


Warning, Repr. 2, Suspected of damaging fertility or the unborn child.


Warning, STOT SE 3, May cause drowsiness or dizziness.


Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.


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

Aquatic Acute 2, Toxic to aquatic life.

Label elements

Hazard pictograms:


Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H401 Toxic to aquatic life.

Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash your face, hands and every exposed part thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep 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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER/doctor/... if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use a CO2, Foam, Chemical powders for extinction.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

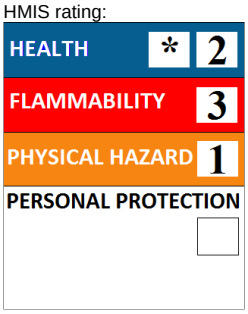
Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:

HMIS rating:



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 25% - < 48% n-butyl acetate

REACH No.: 01-2119485493-29-xxxx, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1


B.6/3 Flam. Liq. 3 H226


A.8/3 STOT SE 3 H336

>= 20% - < 25% Copper

REACH No.: 01-2119480154-42-xxxx, CAS: 7440-50-8, EC: 231-159-6


A.1/4/Oral Acute Tox. 4 H302


US-HAE/A1 Aquatic Acute 1 H400

US-HAE/C3 Aquatic Chronic 3 H412

>= 12.5% - < 20% xylene [isomer mixture]

REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7


B.6/3 Flam. Liq. 3 H226


A.10/1 Asp. Tox. 1 H304


A.3/2A Eye Irrit. 2A H319


A.8/3 STOT SE 3 H335


A.9/2 STOT RE 2 H373


A.2/2 Skin Irrit. 2 H315


A.1/4/Dermal Acute Tox. 4 H312


A.1/4/Inhal Acute Tox. 4 H332

>= 9.9% - < 12.5% ethyl acetate

REACH No.: 01-2119475103-46-xxxx, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4


B.6/2 Flam. Liq. 2 H225


A.3/2A Eye Irrit. 2A H319


A.8/3 STOT SE 3 H336

>= 0.25% - < 0.5% ethylbenzene

REACH No.: 01-2119489370-35-xxxx, Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4


A.10/1 Asp. Tox. 1 H304


A.2/2 Skin Irrit. 2 H315


A.6/2 Carc. 2 H351


A.9/2 STOT RE 2 H373


B.6/2 Flam. Liq. 2 H225


A.1/4/Inhal Acute Tox. 4 H332

>= 0.2% - < 0.25% toluene

REACH No.: 01-2119471310-51-xxxx, Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9


B.6/2 Flam. Liq. 2 H225


A.7/2 Repr. 2 H361


A.10/1 Asp. Tox. 1 H304


A.9/2 STOT RE 2 H373


A.2/2 Skin Irrit. 2 H315


A.8/3 STOT SE 3 H336

4. FIRST-AID MEASURES

Description of necessary measures
In case of skin contact:
Immediately take off all contaminated clothing.
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.
In case of eyes contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.
In case of Ingestion:
Do NOT induce vomiting.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
Most important symptoms/effects, acute and delayed
None
Indication of 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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
In case of fire: Use a CO2, Foam, Chemical powders for extinction.
Unsuitable extinguishing media:
None in particular.
Specific hazards arising from the chemical
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products:
None
Explosive properties: N.A.
Oxidizing properties: N.A.
Special protective equipment and precautions for fire-fighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

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.
Remove persons to safety.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.
Methods and materials for containment and cleaning up
Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Exercise the greatest care when handling or opening the container.
Do not use on extensive surface areas in premises where there are occupants.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.
Conditions for safe storage, including any incompatibilities
Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from flame and sparks. Avoid accumulating electrostatic charge.
Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.

Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Cool and adequately ventilated.
Safety electric system.
Storage temperature:
Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

n-butyl acetate - CAS: 123-86-4
- TWA (Italia) - TWA: 150 ppm - STEL: 200 ppm
- ACGIH - TWA: 150 ppm - STEL: 200 ppm - Notes: Eye and URT irr

Copper - CAS: 7440-50-8
- ACGIH - TWA(8h): 0.2 mg/m3 - Notes: Fume, as Cu. Irr, GI, metal fume fever
- ACGIH - TWA(8h): 1 mg/m3 - Notes: Dusts and mists, as Cu. Irr, GI, metal fume fever

xylene [isomer mixture] - CAS: 1330-20-7
- (OEL (IT)) - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Behaviour: Binding - Notes: pelle
- EU - TWA(8h): 221 mg/m3, 50 ppm - STEL: 442 mg/m3, 100 ppm - Notes: Skin
- ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

ethyl acetate - CAS: 141-78-6
- (OEL (IT)) - TWA: 400 ppm
- ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr

ethylbenzene - CAS: 100-41-4
- (OEL (IT)) - TWA(8h): 442 mg/m3, 100 ppm - STEL: 884 mg/m3, 200 ppm - Behaviour: Binding - Notes: pelle
- EU - TWA(8h): 442 mg/m3, 100 ppm - STEL: 884 mg/m3, 200 ppm - Notes: Skin
- ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

toluene - CAS: 108-88-3
- (OEL (IT)) - TWA(8h): 192 mg/m3, 50 ppm - Behaviour: Binding - Notes: Pelle
- EU - TWA(8h): 192 mg/m3, 50 ppm - STEL: 384 mg/m3, 100 ppm - Notes: Skin
- ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

DNEL Exposure Limit Values

n-butyl acetate - CAS: 123-86-4
- Worker Professional: 600 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
- Worker Professional: 300 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
- Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- Worker Professional: 11 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
- Consumer: 300 mg/kg - Exposure: Human Inhalation - Frequency: Short Term, local effects
- Consumer: 35.7 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
- Consumer: 6 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
- Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
- Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Copper - CAS: 7440-50-8
- Worker Industry: 273 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
- Worker Industry: 20 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- Worker Industry: 137 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- Consumer: 273 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Short Term, systemic effects
- Consumer: 20 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

xylene [isomer mixture] - CAS: 1330-20-7
- Worker Industry: 180 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- Worker Industry: 77 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Consumer: 108 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- Consumer: 1872 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
- Consumer: 12.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethyl acetate - CAS: 141-78-6
- Worker Industry: 1468 mg/m3 - Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- Worker Industry: 1468 ppm - Exposure: Human Inhalation - Frequency: Short Term (acute)
- Worker Industry: 63 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- Worker Industry: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
- Worker Industry: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Consumer: 4.5 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
- Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term (acute)
- Consumer: 734 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
- Consumer: 37 mg/Kg-bw/day - Exposure: Human Dermal - Frequency: Long Term, local effects
- Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 367 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
ethylbenzene - CAS: 100-41-4
Worker Industry: 180 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 293 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 77 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
toluene - CAS: 108-88-3
Consumer: 226 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: 226 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Consumer: 226 mg/m3 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 56.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 8.13 mg/Kg-bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 384 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 384 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 192 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
n-butyl acetate - CAS: 123-86-4
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.018 mg/l
Target: Freshwater sediments - Value: 0.981 mg/kg
Target: Marine water sediments - Value: 0.0981 mg/kg
Target: Soil (agricultural) - Value: 0.0903 mg/kg
Target: STP - Value: 35.6 mg/l
Copper - CAS: 7440-50-8
Target: Soil (agricultural) - Value: 66.5 mg/kg
Target: Fresh Water - Value: 0.0078 mg/l
Target: Freshwater sediments - Value: 87 mg/kg
Target: Marine water - Value: 0.0052 mg/l
Target: Marine water sediments - Value: 676 mg/kg
Target: STP - Value: 0.230 mg/l
xylene [isomer mixture] - CAS: 1330-20-7
Target: Fresh Water - Value: 0.327 mg/l
Target: Fresh Water - Value: 0.327 mg/l
Target: occasional emission - Value: 0.327 mg/l
Target: Microorganisms in sewage treatments - Value: 6.58 mg/l
Target: Soil (agricultural) - Value: 2.31 mg/kg - Notes:: dry
Target: Marine water sediments - Value: 12.46 mg/kg - Notes:: dry
Target: Freshwater sediments - Value: 12.46 mg/kg - Notes:: dry
ethyl acetate - CAS: 141-78-6
Target: Fresh Water - Value: 0.26 mg/l
Target: Marine water - Value: 0.026 mg/l
Target: Freshwater sediments - Value: 1.25 mg/kg
Target: Marine water sediments - Value: 0.125 mg/kg
Target: Soil (agricultural) - Value: 0.24 mg/kg
Target: orally (secondary poisoning) - Value: 200 mg/kg - Notes:: Dietetico
Target: STP - Value: 650 mg/l
ethylbenzene - CAS: 100-41-4
Target: Fresh Water - Value: 0.1 mg/l
Target: Marine water - Value: 0.01 mg/l
Target: Marine water sediments - Value: 13.7 mg/l
Target: Freshwater sediments - Value: 13.7 mg/l
Target: occasional emission - Value: 0.1 mg/l
toluene - CAS: 108-88-3
Target: Fresh Water - Value: 0.68 mg/l
Target: Marine water - Value: 0.68 mg/l
Target: Soil (agricultural) - Value: 2.89 mg/kg
Target: Marine water sediments - Value: 16.39 mg/l
Target: Freshwater sediments - Value: 16.39 mg/l
Target: STP - Value: 13.61 mg/l

Appropriate engineering controls:
None

Individual protection measures

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

Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:
Use adequate protective respiratory equipment.

Thermal Hazards:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	liquid
Odour:	characteristic
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	< 1° C
Initial boiling point and boiling range:	> 55° C
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	< 21°C - < 69.8 °F
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.3000 Kg/l a 20°C
Solubility in water:	N.A.
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	> 250° C
Decomposition temperature:	N.A.
Viscosity (typical value):	15.00 " Din cup # 4
Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

10. STABILITY AND REACTIVITY

Reactivity
It may generate dangerous reactions (See subsections below)
Chemical stability
It may generate dangerous reactions (See subsections below)
Possibility of hazardous reactions
No dangerous reaction is stored and used appropriately.
Conditions to avoid
Avoid accumulating electrostatic charge.
Vapours can form explosive mixtures with air.
Incompatible materials
Avoid contact with combustible materials. The product could catch fire.
Hazardous decomposition products
None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Toxicological information of the product:
N.A.
Toxicological information of the main substances found in the product:
n-butyl acetate - CAS: 123-86-4
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 21 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 10736 mg/kg - Notes: Method OECD linee guide 402
Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg
xylene [isomer mixture] - CAS: 1330-20-7
a) acute toxicity:
Test: LD50 - Route: Inhalation - Species: Rat = 27 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 12126 mg/kg
ethyl acetate - CAS: 141-78-6
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg
Test: LD50 - Route: Oral - Species: Rat = 5620 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 29.3 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rabbit = 4934 mg/kg body weight
b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
e) germ cell mutagenicity:
Test: Genotoxicity Negative
j) aspiration hazard:
Test: Respiratory Tract Corrosive - Route: Inhalation Positive
ethylbenzene - CAS: 100-41-4
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit = 15400 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 4000 Ppm - Duration: 4h
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin - Species: Cavia porcellus Negative
toluene - CAS: 108-88-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 636 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 12267 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 25.7 mg/l - Duration: 4h

Substance(s) listed on the NTP report on Carcinogens:
None.
Substance(s) listed on the IARC Monographs:
xylene [isomer mixture] - Group 3
ethylbenzene - Group 2B
toluene - Group 3.
Substance(s) listed as OSHA Carcinogen(s):
None.
Substance(s) listed as NIOSH Carcinogen(s):
None.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Adopt good working practices, so that the product is not released into the environment.
n-butyl acetate - CAS: 123-86-4
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 64 mg/l - Duration h: 48
Endpoint: EC50 - Species: Daphnia = 73 mg/l - Duration h: 24
Endpoint: EC50 - Species: Algae = 674 mg/l - Duration h: 72
xylene [isomer mixture] - CAS: 1330-20-7
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 3.2 mg/l - Duration h: 96
Endpoint: LC50 - Species: Algae = 2.6 mg/l - Duration h: 73
ethyl acetate - CAS: 141-78-6
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 454.7 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 154 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 3300 mg/l - Duration h: 48
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae > 100 mg/l - Duration h: 72
ethylbenzene - CAS: 100-41-4
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 42.3 mg/l - Duration h: 96
toluene - CAS: 108-88-3
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae = 12500 Ppm - Duration h: 72
Endpoint: EC50 - Species: Algae > 433 Ppm - Duration h: 96
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 1000 Ppm - Duration h: 504
Persistence and degradability
N.A.
Bioaccumulative potential
N.A.
Mobility in soil
N.A.
Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

UN number

ADR-UN Number:	1263
DOT-UN Number:	1263
IATA-UN Number:	1263
IMDG-UN Number:	1263

UN proper shipping name

ADR-Shipping Name: Paint Related material
DOT-Shipping Name: Paint Related material
IATA-Shipping Name: Paint Related material
IMDG-Shipping Name: Paint Related material

Transport hazard class(es)

ADR-Class: 3
DOT-Class: 3
IATA-Class: 3
IMDG-Class: 3

Packing group

ADR-Packing Group: II
DOT-Packing Group: II
IATA-Packing group: II
IMDG-Packing group: II

Environmental hazards

ADR-Enviromental Pollutant: Yes
IMDG-Marine pollutant: Marine pollutant

Most important toxic component: Copper

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No

Special precautions

ADR-Tunnel Restriction Code: D/E
DOT-Special provisions: 149, B52, IB2, T4, TP1, TP8, TP28
IATA-Passenger Aircraft: 353
IATA-Cargo Aircraft: 364
IATA-S.P.: A72
IATA-ERG: 8L
IMDG-EmS: F-E, S-E
IMDG-Storage category: B
IMDG-Storage notes: None

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.
TSCA listed substances:
n-butyl acetate is listed in TSCA Section 4, Section 12b
ethylbenzene is listed in TSCA Section 4
toluene is listed in TSCA Section 8a - CAIR.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.
Section 304 – Hazardous substances: no substances listed.
Section 313 – Toxic chemical list: Copper, xylene [isomer mixture], ethylbenzene, toluene.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: n-butyl acetate - Reportable quantity: 5000 pounds
Copper - Reportable quantity: 5000 pounds
xylene [isomer mixture] - Reportable quantity: 100 pounds
ethyl acetate - Reportable quantity: 5000 pounds
ethylbenzene - Reportable quantity: 1000 pounds
toluene - Reportable quantity: 1000 pounds.
Reportable quantity for mixture: 571.4285714 pounds.

CAA - Clean Air Act

CAA listed substances:
n-butyl acetate is listed in CAA Section 111
xylene [isomer mixture] is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON
ethyl acetate is listed in CAA Section 111
ethylbenzene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON
toluene is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:
n-butyl acetate is listed in CWA Section 311, Section 304
xylene [isomer mixture] is listed in CWA Section 311, Section 304
ethyl acetate is listed in CWA Section 304
ethylbenzene is listed in CWA Section 311, Section 304, Section 307
toluene is listed in CWA Section 311, Section 304, Section 307.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:
ethylbenzene - Listed as carcinogen

toluene - Listed as reproductive toxicant.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:
n-butyl acetate
Copper
xylene [isomer mixture]
ethyl acetate
ethylbenzene
toluene.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:
n-butyl acetate
Copper
xylene [isomer mixture]
ethyl acetate
ethylbenzene
toluene.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:
n-butyl acetate
Copper
xylene [isomer mixture]
ethyl acetate
ethylbenzene
toluene.

16. OTHER INFORMATION

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H225 Highly flammable liquid and vapour.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.

Safety Data Sheet dated 10/20/2017, version 1
Disclaimer:
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. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.
This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
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.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
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.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program

OSHA:	Occupational Safety and Health Administration
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