*Printing date 09/11/2019* 

Reviewed on 08/21/2019

### **1** Identification

- · Product identifier
- · Trade name: 870 XIRALLIC COPPER
- · Article number: 870
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: General Paint Co. S.A.L. P.O. Box 7623 Beirut LEBANON info@generalpaint.biz
- Information department: Product Safety Department
   Emergency telephone number: 1-800-535-5053 contract number (89244)

### 2 Hazard(s) identification

Classification of the substance or mixture
GHS02 Flame
Flam. Liq. 3 H226 Flammable liquid and vapor.
GHS08 Health hazard
Carc. 2 H351 Suspected of causing cancer.
STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.
GHS07
STOT SE 3 H336 May cause drowsiness or dizziness.
Label elements
GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms
GHS02 GHS07 GHS08

(Contd. on page 2)

US

Page 2/14

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

Reviewed on 08/21/2019

Trade name: 870 XIRALLIC COPPER

(Contd. of page 1)

· Signal word Warning · Hazard-determining components of labeling: n-butyl acetate ethylbenzene · Hazard statements Flammable liquid and vapor. Suspected of causing cancer. May cause drowsiness or dizziness. May cause damage to the hearing organs through prolonged or repeated exposure. · Precautionarv statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 0Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 0 Health = 0FIRE 3 Fire = 3Reactivity = 0REACTIVITY 0 · Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable.



- US

Printing date 09/11/2019

### Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

### · vPvB: Not applicable.

### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
123-86-4	n-butyl acetate	>50- <i>≤</i> 100%
1330-20-7	xylene	>2.5- <i>≤</i> 10%
64742-95-6	Solvent naphtha (petroleum), light arom.	>2.5- <i>≤</i> 10%
108-65-6	2-methoxy-1-methylethyl acetate	>2.5- <i>≤</i> 10%
100-41-4	ethylbenzene	<i>≤</i> 2.5%

### 4 First-aid measures

#### · Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
   CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
   For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

(Contd. on page 4)



(Contd. of page 2)

Page 3/14

*Printing date 09/11/2019* 

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
   Mount respiratory protective device.
   Wear protective equipment Keep upprotected persons away
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

PAC-1:	n hutul energiete	<b>C</b>
	n-butyl acetate	5 ppm
1330-20-7		130 pp
108-65-6	2-methoxy-1-methylethyl acetate	50 ppn
100-41-4	ethylbenzene	33 ppr
107-98-2	1-methoxy-2-propanol	100 pp
7664-38-2	phosphoric acid	3 mg/m
70657-70-4	2-methoxypropyl acetate	50 ppr
PAC-2:		
123-86-4	n-butyl acetate	200 ppm
1330-20-7	xylene	920* ppn
108-65-6	2-methoxy-1-methylethyl acetate	1,000 pp
100-41-4	ethylbenzene	1100* pp
107-98-2	1-methoxy-2-propanol	160 ppm
7664-38-2	phosphoric acid	30 mg/m <sup>2</sup>
70657-70-4	2-methoxypropyl acetate	1,000 ppi
PAC-3:		
123-86-4	n-butyl acetate	3000* pp
1330-20-7	xylene	2500* pp
108-65-6	2-methoxy-1-methylethyl acetate	5000* pp
100-41-4	ethylbenzene	1800* pp
107-08-2	1-methoxy-2-propanol	660 ppm



Page 4/14

(Contd. of page 3)



*Printing date 09/11/2019* 

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

### 7664-38-2 phosphoric acid

### 70657-70-4 2-methoxypropyl acetate

### 7 Handling and storage

#### · Handling:

- Precautions for safe handling
   Ensure good ventilation/exhaustion at the workplace.
   Open and handle receptacle with care.
   Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
   Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class: 3
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

123-8	6-4 n-butyl acetate
PEL	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm
1330-2	20-7 xylene
PEL	Long-term value: 435 mg/m³, 100 ppm
	(Contd. on page 6)

US



(Contd. of page 4)

 $150 \text{ mg/m}^3$ 

5,000 ppm



Printing date 09/11/2019

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

REL       Short-term value: 635 mg/m³, 160 ppm         Long-term value: 435 mg/m³, 100 ppm         BEI <b>108-65-62-methoxy-1-methylethyl acetate</b> WEEL         Long-term value: 50 ppm <b>100-41-4 ethylbenzene</b> PEL         Short-term value: 545 mg/m³, 100 ppm <b>100-41-4 ethylbenzene</b> PEL         Long-term value: 435 mg/m³, 100 ppm         REL         Short-term value: 545 mg/m³, 125 ppm         Long-term value: 436 mg/m³, 100 ppm         REL         Short-term value: 87 mg/m³, 100 ppm         BEI         Ingredients with biological limit values: <b>1330-20-7 xylene</b> BEI         1.5 g/g creatinine         Medium: urine         Time: end of shift         Parameter: Methylhippuric acids <b>100-41-4 ethylbenzene</b> BEI         0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)		(Contd. of page 5
TLV       Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI         108-65-62-methoxy-1-methylethyl acetate         WEEL       Long-term value: 50 ppm         100-41-4 ethylbenzene         PEL       Short-term value: 435 mg/m³, 100 ppm         REL       Short-term value: 435 mg/m³, 100 ppm         REL       Short-term value: 435 mg/m³, 100 ppm         REL       Short-term value: 435 mg/m³, 100 ppm         Long-term value: 435 mg/m³, 100 ppm         Long-term value: 435 mg/m³, 100 ppm         BEI       Ingredients with biological limit values:         1330-20-7 xylene         BEI       1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -       -         Medium: end-exhaled air Time: not critical Parameter: Elyl benzene (semi-quantitative)         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -         -       -	REL	
Long-term value: 434 mg/m³, 100 ppm BEI 108-65-6 2-methoxy-1-methylethyl acetate WEEL Long-term value: 50 ppm 100-41-4 ethylbenzene PEL Long-term value: 435 mg/m³, 100 ppm REL Short-term value: 435 mg/m³, 100 ppm TLV Long-term value: 87 mg/m³, 20 ppm BEI Ingredients with biological limit values: 1330-20-7 xylene BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids 100-41-4 ethylbenzene BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative) - Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative) Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Breathing equipment: Bereathing equipment: Bereathi		
BET       BET         108-65-6 2-methoxy-1-methylethyl acetate         WEEL       Long-term value: 50 ppm         100-41-4 ethylbenzene         PEL       Long-term value: 435 mg/m³, 100 ppm         REL       Short-term value: 545 mg/m³, 100 ppm         TLV       Long-term value: 435 mg/m³, 100 ppm         BEI       Ingredients with biological limit values:         1330-20-7 xylene       BEI         BEI       1.5 g/g creatinine         Medium: urine       Time: end of shift         Parameter:       Methylbippuric acids         100-41-4 ethylbenzene       BEI         BEI       0.7 g/g creatinine         Medium: urine       Time: end of shift at end of workweek         Parameter:       Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -       Medium: end-exhaled air         Time: not critical       Parameter: Ethyl benzene (semi-quantitative)         -       Additional information: The lists that were valid during the creation were used as basis.         Exposure controls       Personal protective equipment:         General protective and hygienic measures:       Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.       Wash hands before breaks and at the end of work.	TLV	
108-65-62-methoxy-1-methylethyl acetate         WEEL       Long-term value: 50 ppm         100-41-4 ethylbenzene         PEL       Long-term value: 545 mg/m³, 100 ppm         REL       Short-term value: 545 mg/m³, 125 ppm         Long-term value: 835 mg/m³, 100 ppm         TLV       Long-term value: 87 mg/m³, 20 ppm         BEI       1.5 g/g creatinine         Medium: urine         Time: end of shift         Parameter:         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: urine         Time: ond of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         -         Additional information: The lists that were valid during the creation were used as basis.         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing. <td></td> <td></td>		
WEEL       Long-term value: 50 ppm         100-41-4 ethylbenzene         PEL       Long-term value: 545 mg/m³, 100 ppm         REL       Short-term value: 435 mg/m³, 125 ppm         Long-term value: 35 mg/m³, 100 ppm         TLV       Long-term value: 87 mg/m³, 20 ppm         BEI       Ingredients with biological limit values:         1330-20-7 xylene         BEI       1.5 g/g creatinine         Medium: urine         Time: end of shift         Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not oritical         Parameter: Ethyl benzene (semi-quantitative)         -         Additional information: The lists that were valid during the creation were used as basis.         Exposure controls         Personal protective equipment:         General protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.	(	
100-41-4 ethylbenzene         PEL       Long-term value: 435 mg/m³, 100 ppm         REL       Short-term value: 545 mg/m³, 100 ppm         Long-term value: 435 mg/m³, 100 ppm         TLV       Long-term value: 87 mg/m³, 20 ppm         BEI         Ingredients with biological limit values:         1330-20-7 xylene         BEI         Ingredients with biological limit values:         1330-20-7 xylene         BEI         BEI         1.5 g/g creatinine         Medium: urine         Time: end of shift         Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI         0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         -         Additional information: The lists that were valid during the creation were used as basis.         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs,		
PEL       Long-term value: 435 mg/m³, 100 ppm         REL       Short-term value: 545 mg/m³, 125 ppm         Long-term value: 435 mg/m³, 100 ppm         TLV       Long-term value: 87 mg/m³, 20 ppm         BEI       Ingredients with biological limit values:         1330-20-7 xylene         BEI       1.5 g/g creatinine         Medium: urine         Time: end of shift         Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         -         Additional information: The lists that were valid during the creation were used as basis.         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Breathing equipm		
REL       Short-term value: 545 mg/m³, 100 ppm         Long-term value: 435 mg/m³, 100 ppm         TLV       Long-term value: 87 mg/m³, 20 ppm         BEI       Ingredients with biological limit values:         1330-20-7 xylene         BEI       1.5 g/g creatinine         Medium: urine         Time: end of shift         Parameter:         Parameter::         Methylbenzene         BEI         0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter:         Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         Medium: end-exhaled air         Time: not critical         Parameter:         Parameter:         Exposure controls         Personal protective equipment:         General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all solied and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low pollution use respiratory filter device. <td></td> <td>-</td>		-
Long-term value: 435 mg/m³, 100 ppm         TLV       Long-term value: 87 mg/m³, 20 ppm         BEI       Ingredients with biological limit values:         1330-20-7 xylene       BEI         BEI       1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -       Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)         -       Additional information: The lists that were valid during the creation were used as basis.         Exposure controls       Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all solled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.         Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low	PEL	Long-term value: 435 mg/m³, 100 ppm
TLV       Long-term value: 87 mg/m³, 20 ppm         BEI       Ingredients with biological limit values:         1330-20-7 xylene         BEI       1.5 g/g creatinine         Medium: urine         Time: end of shift         Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         Additional information: The lists that were valid during the creation were used as basis.         Exposure controls         Personal protective equipment:         Immediately remove all solied and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low	REL	Short-term value: 545 mg/m³, 125 ppm
BEI         Ingredients with biological limit values:         1330-20-7 xylene         BEI       1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)         Additional information: The lists that were valid during the creation were used as basis.         Exposure controls         Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.         Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low		Long-term value: 435 mg/m³, 100 ppm
BEI         Ingredients with biological limit values:         1330-20-7 xylene         BEI       1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)         Additional information: The lists that were valid during the creation were used as basis.         Exposure controls         Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.         Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low	TLV	Long-term value: 87 mg/m³, 20 ppm
1330-20-7 xylene         BEI       1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -       Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)         -       Additional information: The lists that were valid during the creation were used as basis.         •       Exposure controls         Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.         Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low		
<ul> <li>BEI 1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids</li> <li>100-41-4 ethylbenzene</li> <li>BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)</li> <li>- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)</li> <li>Additional information: The lists that were valid during the creation were used as basis.</li> <li>Exposure controls</li> <li>Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>	· Ingre	dients with biological limit values:
Medium: urine         Time: end of shift         Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         •	1330	-20-7 xylene
Time: end of shift         Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         •         Additional information: The lists that were valid during the creation were used as basis.         •      <	BEI	1.5 g/g creatinine
Parameter: Methylhippuric acids         100-41-4 ethylbenzene         BEI       0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         •         Additional information: The lists that were valid during the creation were used as basis.         • </td <td></td> <td></td>		
100-41-4 ethylbenzene         BEI       0.7 g/g creatinine         Medium: urine         Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         • </td <td></td> <td></td>		
<ul> <li>BEI 0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)</li> <li>Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)</li> <li>Additional information: The lists that were valid during the creation were used as basis.</li> <li>Exposure controls</li> <li>Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>	1	Parameter: Methylhippuric acids
<ul> <li>Medium: urine <ul> <li>Time: end of shift at end of workweek</li> <li>Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)</li> <li>Medium: end-exhaled air</li> <li>Time: not critical</li> <li>Parameter: Ethyl benzene (semi-quantitative)</li> </ul> </li> <li>Additional information: The lists that were valid during the creation were used as basis.</li> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: <ul> <li>Keep away from foodstuffs, beverages and feed.</li> <li>Immediately remove all soiled and contaminated clothing.</li> <li>Wash hands before breaks and at the end of work.</li> <li>Store protective clothing separately.</li> <li>Breathing equipment:</li> <li>In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul></li></ul>	100-4	11-4 ethylbenzene
Time: end of shift at end of workweek         Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)         -         Medium: end-exhaled air         Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         •         Additional information: The lists that were valid during the creation were used as basis.         • Exposure controls         • Personal protective equipment:         • General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low		
<ul> <li>Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)</li> <li>Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)</li> <li>Additional information: The lists that were valid during the creation were used as basis.</li> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>		
<ul> <li>Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)</li> <li>Additional information: The lists that were valid during the creation were used as basis.</li> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.</li> <li>Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>		
Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         • Additional information: The lists that were valid during the creation were used as basis.         • Exposure controls         • Personal protective equipment:         • General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         • Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low	1	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         • Additional information: The lists that were valid during the creation were used as basis.         • Exposure controls         • Personal protective equipment:         • General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         • Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low		
Time: not critical         Parameter: Ethyl benzene (semi-quantitative)         • Additional information: The lists that were valid during the creation were used as basis.         • Exposure controls         • Personal protective equipment:         • General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         • Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low		Medium: end-exhaled air
Parameter: Ethyl benzene (semi-quantitative)         • Additional information: The lists that were valid during the creation were used as basis.         • Exposure controls         • Personal protective equipment:         • General protective and hygienic measures:         Keep away from foodstuffs, beverages and feed.         Immediately remove all soiled and contaminated clothing.         Wash hands before breaks and at the end of work.         Store protective clothing separately.         • Breathing equipment:         In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low		
<ul> <li>Additional information: The lists that were valid during the creation were used as basis.</li> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>		
<ul> <li>Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>		
<ul> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>		-
<ul> <li>General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.</li> <li>Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or low</li> </ul>	-	
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. <b>Breathing equipment:</b> In case of brief exposure or low pollution use respiratory filter device. In case of intensive or lo		
Immediately remove all solled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. • <b>Breathing equipment:</b> In case of brief exposure or low pollution use respiratory filter device. In case of intensive or le		
Wash hands before breaks and at the end of work. Store protective clothing separately. • <b>Breathing equipment:</b> In case of brief exposure or low pollution use respiratory filter device. In case of intensive or le		
Store protective clothing separately. • <b>Breathing equipment:</b> In case of brief exposure or low pollution use respiratory filter device. In case of intensive or le		
Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or le		
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or lo		
	expo	(Contd. on page





Page 7/14

(Contd. of page 6)

## Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Copper colored	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	124 °C (255.2 °F)	
Flash point:	27 °C (80.6 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	370 °C (698 °F)	

Printing date 09/11/2019

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

	(Contd. of page
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.5 Vol %
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
Density at 20 °C (68 °F):	0.958 g/cm³ (7.99451 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	74.3 %
Coating VOC content:	74.27 %
-	711.5 g/l / 5.94 lb/gal
Material VOC content:	711.5 g/l / 5.94 lb/gal
Solids content:	25.7 %
Other information	No further relevant information available.

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

- No decomposition if used according to specifications. **Possibility of hazardous reactions** No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 9)

US



Page 8/14

Printing date 09/11/2019

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

(Contd. of page 8)

Page 9/14

Acute tox	•	at are relevant for classification:	
1330-20-7			
Oral	LD50	4,300 mg/kg (rat)	
Dermal	LD50	2,000 mg/kg (rabbit)	
64742-95-	6 Solvent	naphtha (petroleum), light arom.	
Oral	LD50	>6,800 mg/kg (rat)	
Dermal	LD50	>3,400 mg/kg (rab)	
Inhalative	LC50/4 h	>10.2 mg/l (rat)	
on the ey Sensitiza Additiona The produ	e: No irrita tion: No se I toxicolog uct shows	ant effect. ting effect. ensitizing effects known. <b>gical information:</b> the following dangers according to internally approved calculation metho	ods
on the ey Sensitiza Additiona The produ preparatio	e: No irrita tion: No se Il toxicolog uct shows ins:	ting effect. ensitizing effects known. <b>gical information:</b> the following dangers according to internally approved calculation metho	ods
on the ey Sensitiza Additiona The produ preparatio Carcinog	e: No irrita tion: No se al toxicolog uct shows ns: enic categ	ting effect. ensitizing effects known. <b>gical information:</b> the following dangers according to internally approved calculation metho	od:
on the ey Sensitiza Additiona The produ preparatio Carcinog	e: No irrita tion: No se al toxicolo uct shows ns: enic categ ernational	ting effect. ensitizing effects known. <b>gical information:</b> the following dangers according to internally approved calculation metho <b>gories</b>	od:
on the ey Sensitiza Additiona The produ preparatio Carcinogo IARC (Intel 1330-20-7	e: No irrita tion: No se al toxicolo uct shows ns: enic categ ernational	ting effect. ensitizing effects known. <b>gical information:</b> the following dangers according to internally approved calculation metho <b>pories</b> Agency for Research on Cancer)	od:
on the ey Sensitiza Additiona The produ preparatio Carcinog IARC (Intel 1330-20-7 100-41-4	e: No irrita tion: No se al toxicolo uct shows ns: enic categ ernational xylene ethylbenz	ting effect. ensitizing effects known. <b>gical information:</b> the following dangers according to internally approved calculation metho <b>pories</b> Agency for Research on Cancer)	od:
on the ey Sensitiza Additiona The produ preparatio Carcinog IARC (Intel 1330-20-7 100-41-4 NTP (Nati	e: No irrita tion: No se al toxicolog uct shows ns: enic categ ernational xylene ethylbenz fonal Toxid	ting effect. ensitizing effects known. <b>gical information:</b> the following dangers according to internally approved calculation metho <b>gories</b> I <b>Agency for Research on Cancer</b> ) zene	od:
on the ey Sensitiza Additiona The produ preparatio Carcinog IARC (Intel 1330-20-7 100-41-4 NTP (Nati None of th	e: No irrita tion: No se al toxicolo uct shows ns: enic categ ernational xylene ethylbenz ional Toxic e ingredie	ting effect. ensitizing effects known. gical information: the following dangers according to internally approved calculation metho pories Agency for Research on Cancer) zene cology Program)	

### 12 Ecological information

### · Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 10)

<sup>-</sup> US

*Printing date 09/11/2019* 

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, IMDG, IATA	UN1263	
UN proper shipping name		
DOT	Paint	
ADR	1263 PAINT	
IMDG, IATA	PAINT	
Transport hazard class(es)		
DOT		
T MART T (Cr)		
Class	3 Flammable liquids	
Label	3	
ADR, IMDG, IATA		
Class	3 Flammable liquids	
Label	3	



Page 10/14

(Contd. of page 9)

Printing date 09/11/2019

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

	(Contd. of page 10)
<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	<i>III</i>
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>Special precautions for user</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids F-E, <u>S-E</u> A
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	<i>II of</i> Not applicable.
· Transport/Additional information:	
·DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
<ul> <li>ADR</li> <li>Excepted quantities (EQ)</li> </ul>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III

### 15 Regulatory information

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 35	5 (extremely hazardous substances):	
None of the	e ingredients is listed.	
· Section 31	3 (Specific toxic chemical listings):	
1330-20-7	xylene	
100-41-4	ethylbenzene	
7664-38-2	phosphoric acid	
· TSCA (To	kic Substances Control Act):	
123-86-4	n-butyl acetate	ACTIVE
1330-20-7	xylene	ACTIVE
	(Contd.	on page 12)



Page 12/14

# Safety Data Sheet acc. to OSHA HCS

Printing date 09/11/2019

ENERAL

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

		(Contd. of page 1
108-65-6	2-methoxy-1-methylethyl acetate	ACTIVE
100-41-4	ethylbenzene	ACTIVE
107-98-2	1-methoxy-2-propanol	ACTIVE
7664-38-2	phosphoric acid	ACTIVE
· Hazardou	s Air Pollutants	
1330-20-7	xylene	
100-41-4	ethylbenzene	
· Propositio	on 65	
· Chemical	s known to cause cancer:	
100-41-4	ethylbenzene	
· Chemical	s known to cause reproductive toxicity for females:	
None of th	e ingredients is listed.	
· Chemical	s known to cause reproductive toxicity for males:	
None of th	e ingredients is listed.	
· Chemical	s known to cause developmental toxicity:	
None of th	e ingredients is listed.	
· Carcinoge	enic categories	
· EPA (Env	ironmental Protection Agency)	
1330-20-7	xylene	1
100-41-4	ethylbenzene	Ľ
· TLV (Thre	shold Limit Value established by ACGIH)	
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of th	e ingredients is listed.	
· GHS labe		
The produ • <b>Hazard pi</b>	ct is classified and labeled according to the Globally Harmonized Syste	əm (GHS).



· Signal word Warning

• *Hazard-determining components of labeling: n-butyl acetate ethylbenzene* 

(Contd. on page 13)

US

Page 13/14

## Safety Data Sheet acc. to OSHA HCS

*Printing date 09/11/2019* 

Reviewed on 08/21/2019

### Trade name: 870 XIRALLIC COPPER

(Contd. of page 12) · Hazard statements Flammable liquid and vapor. Suspected of causing cancer. May cause drowsiness or dizziness. May cause damage to the hearing organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: N/A
- Date of preparation / last revision 09/11/2019 / -
- Abbreviations and acronyms:
   RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
   ICAO: International Civil Aviation Organisation
   ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
   IMDG: International Maritime Code for Dangerous Goods
   DOT: US Department of Transport Association
   ACGIH: American Conference of Governmental Industrial Hygienists
   EINECS: European Inventory of Existing Commercial Chemical Substances
   ELINCS: European List of Notified Chemical Substances
   CAS: Chemical Abstracts Service (division of the American Chemical Society)
   NFPA: National Fire Protection Association (USA)

(Contd. on page 14)

<sup>-</sup> US

Printing date 09/11/2019

ENERAL

### Reviewed on 08/21/2019

Page 14/14

115

#### Trade name: 870 XIRALLIC COPPER

(Contd. of page 13) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 3: Flammable liquids – Category 3 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 2