

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

Metalliclack Kupfer / Metallic Paint Copper 25 I

Version 4.0

Revision Date 09.12.2019

Print Date 07.08.2020

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

1.1 Product identifier

Trade name : Metalliclack Kupfer / Metallic Paint Copper 25 I
Material number : 08227328V

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company :

Telephone :
Telefax :
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

NCEC:

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Flammable liquids, Category 3, H226
Acute toxicity, Category 4, Oral, H302
Skin corrosion/irritation, Category 2, H315

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Serious eye damage/eye irritation, Category 2A, H319
 Specific target organ toxicity - single exposure, Category 3,
 Respiratory system, Central nervous system, H335H336
 Short-term (acute) aquatic hazard, Category 1, H400
 Long-term (chronic) aquatic hazard, Category 1, H410

GHS-Labeling

Symbol(s)



Signal word

: Warning

Hazard statements

: H226: Flammable liquid and vapour.
 H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H336: May cause drowsiness or dizziness.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

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Identification	CAS-No.
copper	7440-50-8
Solvent naphtha (petroleum), light arom.	64742-95-6
n-butyl acetate	123-86-4
xylene	1330-20-7
butan-1-ol	71-36-3
silicon dioxide	7631-86-9

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
Copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	20 - 25
Solvent naphtha (petroleum), light arom.	64742-95-6	Flam. Liq.;3;H226 Acute Tox.;5;H303 Acute Tox.;5;H313 STOT SE;3;H335, H336 Asp. Tox.;1;H304 Aquatic Chronic;2;H411	10 - 20
n-butyl acetate	123-86-4 204-658-1	Flam. Liq.;3;H226 STOT SE;3;H336	10 - 20

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xylene	1330-20-7 215-535-7	Flam. Liq.;3;H226 Acute Tox.;4;H332 ;2;H315 ;2A;H319 STOT SE;3;H335 STOT RE;2;H373 Asp. Tox.;1;H304	1 - 10
butan-1-ol	71-36-3 200-751-6	Flam. Liq.;3;H226 ;2;H315 ;1;H318 STOT SE;3;H335, H336	1 - 3
silicon dioxide	7631-86-9 231-545-4	Acute Tox.;5;H303	1 - 10
n-butyl acrylate	141-32-2 205-480-7	Flam. Liq.;3;H226 Acute Tox.;4;H302 Acute Tox.;4;H332 Acute Tox.;4;H312 ;2;H315 ;2A;H319 Skin Sens.;1;H317 STOT SE;3;H335 Aquatic Chronic;3;H412	0,1 - 0,25

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures

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- General advice : Move the victim to fresh air.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Special powder against metal fire, Dry sand, ABC powder

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Unsuitable extinguishing media : Water, High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
 Ensure adequate ventilation.
 Use personal protective equipment.
 Remove all sources of ignition.
 Evacuate personnel to safe areas.
 Beware of vapours accumulating to form explosive

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concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform
respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

Pick up and transfer to properly labelled containers.
Do not flush with water.
Contain spillage, and then collect with non-combustible
absorbent material, (e.g. sand, earth, diatomaceous earth,
vermiculite) and place in container for disposal according to
local / national regulations (see section 13).

Contain spillage, and then collect with non-combustible
absorbent material, (e.g. sand, earth, diatomaceous earth,
vermiculite) and place in container for disposal according to
local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use. Avoid
contact with skin and eyes. For personal protection see
section 8. Smoking, eating and drinking should be prohibited
in the application area. Take precautionary measures against

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static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. No smoking.

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : General industrial hygiene practice.

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Do not store together with oxidizing and self-igniting products.

Dampness : Keep in a dry, cool and well-ventilated place.

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Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	AGW (inhalable fraction)	1 mg/m ³		DE TRGS 900
Solvent naphtha (petroleum), light arom.	64742-95-6	AGW	100 mg/m ³	2009-02-16	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900			
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m ³	2012-09-13	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Commission for dangerous substances When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
xylene	1330-20-7	TWA	50 ppm 221 mg/m ³	2000-06-16	2000/39/EC

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Further information		Identifies the possibility of significant uptake through the skin Indicative			
xylene	1330-20-7	STEL	100 ppm 442 mg/m ³	2000-06-16	2000/39/EC
Further information		Identifies the possibility of significant uptake through the skin Indicative			
xylene	1330-20-7	AGW	100 ppm 440 mg/m ³	2010-08-04	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible) Skin absorption			
butan-1-ol	71-36-3	AGW	100 ppm 310 mg/m ³	2006-01-01	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
silicon dioxide	7631-86-9	AGW (Inhalable fraction)	4 mg/m ³	2013-09-19	DE TRGS 900
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, silicagel).When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
n-butyl acrylate	141-32-2	TWA	2 ppm 11 mg/m ³	2000-06-16	2000/39/EC

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Further information		Indicative			
n-butyl acrylate	141-32-2	STEL	10 ppm 53 mg/m ³	2000-06-16	2000/39/EC
Further information		Indicative			
n-butyl acrylate	141-32-2	AGW	2 ppm 11 mg/m ³	2017-11-30	DE TRGS 900
Peak-limit: excursion factor (category)		2;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)Skin absorptionWhen there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn childSubstance sensitizing through the skin			

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
Copper	7440-50-8	TWA	1 mg/m ³	2008-01-01	
Copper	7440-50-8	TWA (dust and mists)	1 mg/m ³	2005-09-01	
Copper	7440-50-8	TWA	1 mg/m ³	1989-01-19	
Copper	7440-50-8	TWA	0,2 mg/m ³	2008-01-01	
Copper	7440-50-8	TWA	0,1 mg/m ³	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m ³	2010-03-01	
Copper	7440-50-8	TWA (Fumes)	0,2 mg/m ³	2010-03-01	
Copper	7440-50-8	TWA (Dust)	1 mg/m ³	2013-10-08	

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Copper	7440-50-8	TWA (Mist)	1 mg/m ³	2013-10-08	
Copper	7440-50-8	TWA (dusts and mists)	1 mg/m ³	2011-07-01	
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m ³	2011-07-01	
Copper	7440-50-8	TWA (Fumes)	0,1 mg/m ³	1989-01-19	
Copper	7440-50-8	TWA (Dust and mist)	1 mg/m ³	1989-01-19	
Copper	7440-50-8	PEL (Fumes)	0,1 mg/m ³	2014-11-26	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2 000 mg/m ³	2007-01-01	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	200 mg/m ³	2010-03-01	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	400 ppm 1 600 mg/m ³	1989-01-19	
n-butyl acetate	123-86-4	ST	200 ppm 950 mg/m ³	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	2013-10-08	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	1997-08-04	
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m ³	1989-01-19	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m ³	1989-01-19	

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n-butyl acetate	123-86-4	PEL	150 ppm 710 mg/m ³	2014-11-26	
n-butyl acetate	123-86-4	STEL	200 ppm 950 mg/m ³	2014-11-26	
n-butyl acetate	123-86-4	TWA	50 ppm	2017-03-01	
n-butyl acetate	123-86-4	STEL	150 ppm	2017-03-01	
xylene	1330-20-7	TWA	100 ppm	2007-01-01	
xylene	1330-20-7	STEL	150 ppm	2007-01-01	
xylene	1330-20-7	STEL	150 ppm 655 mg/m ³	1989-01-19	
xylene	1330-20-7	TWA	100 ppm 435 mg/m ³	1989-01-19	
xylene	1330-20-7	TWA	100 ppm 435 mg/m ³	2012-07-01	
xylene	1330-20-7	TWA	100 ppm	2014-03-01	
xylene	1330-20-7	STEL	150 ppm	2014-03-01	
xylene	1330-20-7	STEL	150 ppm 655 mg/m ³	1989-01-19	
xylene	1330-20-7	TWA	100 ppm 435 mg/m ³	1989-01-19	
xylene	1330-20-7	STEL	150 ppm 655 mg/m ³	2014-11-26	
xylene	1330-20-7	C	300 ppm	2014-11-26	
xylene	1330-20-7	PEL	100 ppm 435 mg/m ³	2014-11-26	

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butan-1-ol	71-36-3	TWA	20 ppm	2013-03-01	
butan-1-ol	71-36-3	C	50 ppm 150 mg/m ³	2013-10-08	
butan-1-ol	71-36-3	TWA	100 ppm 300 mg/m ³	1997-08-04	
butan-1-ol	71-36-3	C	50 ppm 150 mg/m ³	1989-01-19	
butan-1-ol	71-36-3	C	50 ppm 150 mg/m ³	2014-11-26	
silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot	2012-07-01	
silicon dioxide	7631-86-9	TWA (Dust)	80 mg/m ³ / %SiO ₂	2012-07-01	
silicon dioxide	7631-86-9	TWA	6 mg/m ³	2013-10-08	
silicon dioxide	7631-86-9	PEL	6 mg/m ³	2014-11-26	
n-butyl acrylate	141-32-2	TWA	2 ppm	2014-03-01	
n-butyl acrylate	141-32-2	TWA	10 ppm 55 mg/m ³	2013-10-08	
n-butyl acrylate	141-32-2	TWA	10 ppm 55 mg/m ³	1989-01-19	
n-butyl acrylate	141-32-2	PEL	2 ppm 11 mg/m ³	2014-11-26	
ethylbenzene	100-41-4	TWA	20 ppm	2013-03-01	
ethylbenzene	100-41-4	STEL	125 ppm	2010-03-01	
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m ³	2013-10-08	

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ethylbenzene	100-41-4	ST	125 ppm 545 mg/m ³	2013-10-08	
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m ³	1997-08-04	
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m ³	1989-01-19	
ethylbenzene	100-41-4	STEL	125 ppm 545 mg/m ³	1989-01-19	
ethylbenzene	100-41-4	PEL	5 ppm 22 mg/m ³	2014-11-26	
ethylbenzene	100-41-4	STEL	30 ppm 130 mg/m ³	2014-11-26	

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

: Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : Solvent-resistant gloves (butyl-rubber)

Remarks

: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
 The exact break through time can be obtained from the

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protective glove producer and this has to be observed.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Recommended preventive skin protection

Skin should be washed after contact.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

- : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use suitable breathing protection if workplace concentration requires.
Equipment should conform to EN 14387
- : In the case of vapour formation use a respirator with an approved filter.

Environmental exposure controls

General advice :

- : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

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Water : The product should not be allowed to enter drains, water
courses or the soil.

:

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance : liquid

Colour : copper

Odour : characteristic

pH : No data available

Freezing point : No data available

Boiling point/boiling range : 126 °C

Flash point : 27 °C

Bulk density : No data available

Flammability (solid, gas) : No data available

Auto-flammability : No data available

Upper explosion limit : Upper flammability limit
10,4 %(V)

Lower explosion limit : Lower flammability limit
0,6 %(V)

Vapour pressure : No data available

Density : ca. 1,180 g/cm³

Solubility(ies)

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Water solubility	: immiscible
Miscibility with water	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: > 21 mm ² /s (40 °C)
Flow time	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

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10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products :
Other information : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****Copper :**

Acute oral toxicity : The component/mixture is moderately toxic after single ingestion.

Solvent naphtha (petroleum), light arom. :

Acute oral toxicity : LD50 Rat: 3 492 mg/kg

Acute dermal toxicity : LD50 Rabbit: > 3 160 mg/kg

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xylene :

Acute inhalation toxicity : The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity

: Acute toxicity estimate : 1 100 mg/kg

Method: Converted acute toxicity point estimate

butan-1-ol :

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg

Method: Converted acute toxicity point estimate

silicon dioxide :

Acute oral toxicity : LD50 Rat: 5 000 mg/kg

Mouse: 15 000 mg/kg

Acute inhalation toxicity

: Rat: 0,139 mg/l

Exposure time: 4 h

Acute dermal toxicity

: LD50 Rabbit: > 5 000 mg/kg

n-butyl acrylate :

Acute oral toxicity : The component/mixture is moderately toxic after single ingestion.

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Acute inhalation toxicity : The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : The component/mixture is moderately toxic after single contact with skin.

Skin corrosion/irritation**Product**

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation**Product**

Eye irritation

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

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STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

copper (7440-50-8) :

M-Factor : 10

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

Solvent naphtha (petroleum), light arom. (64742-95-6) :

Ecotoxicology Assessment

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Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

silicon dioxide (7631-86-9) :

Toxicity to daphnia and other aquatic invertebrates : (Daphnia (water flea)): 7 600 mg/l

Toxicity to algae : (Chlorella pyrenoidosa (aglae)): 440 mg/l
Exposure time: 72 h

butyl acrylate (141-32-2) :**Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.

SECTION 14: Transport information**14.1 UN number**

ADR	: 1263
TDG	: 1263
CFR	: 1263
IMDG	: 1263
IATA	: 1263

14.2 Proper shipping name

ADR	: PAINT
TDG	: PAINT

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CFR : PAINT
IMDG : PAINT
(,Copper metal powder)
IATA : PAINT

14.3 Transport hazard class

ADR : 3
TDG : 3
CFR : 3
IMDG : 3
IATA : 3

14.4 Packing group

ADR
Packaging group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

TDG
Packaging group : III
Labels : 3

CFR
Packaging group : III
Labels : 3

IMDG
Packaging group : III
Labels : 3

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EmS Number : F-E, S-E

IATA

Packing instruction (cargo aircraft) : 366

Packing instruction (passenger aircraft) : 355

Packing instruction (LQ) : Y344

Packaging group : III

Labels : 3

14.5 Environmental hazards

IMDG : Marine pollutant

ADR : Environmentally hazardous

14.6 Special precautions for user

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

No data available

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

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Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H303	: May be harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

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specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.