

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Sample Floristic Gold Spray 400 ml 14-01016

Version 2.0      Revision Date: 22.03.2018      SDS Number: 102000000023      Print Date: 20.11.2018  
Date of first issue: 04.04.2014

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

#### 1.1 Product identifier

Trade name : Sample Floristic Gold Spray 400 ml 14-01016  
Product code : 08310105Z 08310105Z

#### 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 : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
  
Telephone : +499152770  
  
Telefax : +499152777008  
  
E-mail address of person responsible for the SDS : msds.eckart@altana.com

#### 1.4 Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany:  
From outside US : (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free) : 1-800-5355-053

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.

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Chronic aquatic toxicity, Category 1

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

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves.  
**Storage:**  
P405 Store locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

acetone  
solvent naphtha (petroleum), light arom.  
naphtha (petroleum), hydrotreated light  
n-butyl acetate  
Orange, sweet, ext.

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### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration (% w/w)
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21	Flam. Gas 1; H220 Press. Gas Liquefied gas; H280	>= 20 - < 25
butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32	Flam. Gas 1; H220 Press. Gas C; H280	>= 20 - < 25
acetone	67-64-1 200-662-2 606-001-00-8	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 10 - < 20
copper	7440-50-8 231-159-6 01-2119480154-42	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10
solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10
naphtha (petroleum), hydrotreated light	64742-49-0 265-151-9 649-328-00-1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	>= 2,5 - < 10
xylene	1330-20-7 215-535-7 601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315	>= 1 - < 10
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 1 - < 10
zinc powder - zinc dust	7440-66-6	Aquatic Acute 1;	>= 1 - < 2,5

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(stabilized)	231-175-3 030-001-00-1 01-2119467174-37	H400 Aquatic Chronic 1; H410	
Orange, sweet, ext.	8028-48-6 232-433-8 01-2119493353-35	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 1; H410	$\geq 1 - < 2,5$
amines, hydrogenated tallow alkyl	61788-45-2 262-976-6 612-284-00-9	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,0025 - < 0,025$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : 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 : 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

- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

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

This information is not available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry sand  
Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam  
ABC powder

Unsuitable extinguishing media : Water

### 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 : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : 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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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

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If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : 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 static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : 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 : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. 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. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

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### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis (Version Date)
acetone	67-64-1	TWA	500 ppm 1.210 mg/m <sup>3</sup>	2000/39/EC (2000-06-16)
Further information	Indicative			
		NGV	250 ppm 600 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			
		KTV	500 ppm 1.200 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			
copper	7440-50-8	NGV (Total dust)	1 mg/m <sup>3</sup> (Copper)	SE AFS (2015-11-12)
Further information	Inhalable dust refers to the dust fraction as defined in the Swedish Standard SS-EN 481, Workplace Atmospheres - Size fraction definitions for measurement of airborne particles, 1st ED., 1993., Section 2.3 and having sampling characteristics as specified in paragraph 5.1. Respirable dust refers to the dust fraction as defined in the Swedish Standard SS-EN 481, Workplace Atmospheres - Size fraction definitions for measurement of airborne particles, 1st ED., 1993., Section 2.11 and having sampling characteristics as specified in paragraph 5.3. Total dust refers to all the particles (aerosols) trapped in a filter in the sampling apparatus described in Methods, Sampling of total dust and respirable dust, method nr 1010, published by the National Board of Occupational Safety and Health, now Work Environment Authority. The filter diameter shall normally be 37 mm but can also be 25 mm. Despite its name, not the total amount of airborne particles is measured by this method.			
		NGV (Respirable dust)	0,2 mg/m <sup>3</sup> (Copper)	SE AFS (2015-11-12)
Further information	Inhalable dust refers to the dust fraction as defined in the Swedish Standard SS-EN 481, Workplace Atmospheres - Size fraction definitions for measurement of airborne particles, 1st ED., 1993., Section 2.3 and having sampling characteristics as specified in paragraph 5.1. Respirable dust refers to the dust fraction as defined in the Swedish Standard SS-EN 481, Workplace Atmospheres - Size fraction definitions for measurement of airborne particles, 1st ED., 1993., Section 2.11 and having sampling characteristics as specified in paragraph 5.3. Total dust refers to all the particles (aerosols) trapped in a filter in the sampling apparatus described in Methods, Sampling of total dust and respirable dust, method nr 1010, published by the National Board of Occupational Safety and Health, now			

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	Work Environment Authority. The filter diameter shall normally be 37 mm but can also be 25 mm. Despite its name, not the total amount of airborne particles is measured by this method.			
naphtha (petroleum), hydrotreated light	64742-49-0	KTV	100 ppm 600 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded, Substance can be easily absorbed through the skin., Refers white spirits which are preferably used as solvents and thinners for paint and varnish products, ie petroleum naphtha with its main components in the range of C7 to C12, and with up to 22 weight percent aromatics (up to about 20 volume percent) and less than 0.1 weight per cent benzene. See also note 40 on petroleum naphtha. Stated approximate value in ppm is based on white spirit to 22 weight percent aromatics.			
		NGV	50 ppm 300 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded, Substance can be easily absorbed through the skin., Refers white spirits which are preferably used as solvents and thinners for paint and varnish products, ie petroleum naphtha with its main components in the range of C7 to C12, and with up to 22 weight percent aromatics (up to about 20 volume percent) and less than 0.1 weight per cent benzene. See also note 40 on petroleum naphtha. Stated approximate value in ppm is based on white spirit to 22 weight percent aromatics.			
		KTV	100 ppm 600 mg/m <sup>3</sup>	SE AFS (2011-12-16)
Further information	Substance can be easily absorbed through the skin., Refers white spirits which are preferably used as solvents and thinners for paint and varnish products, ie petroleum naphtha with its main components in the range of C7 to C12, and with up to 22 weight percent aromatics (up to about 20 volume percent) and less than 0.1 weight per cent benzene. See also note 40 on petroleum naphtha. Stated approximate value in ppm is based on white spirit to 22 weight percent aromatics.			
		NGV	50 ppm 300 mg/m <sup>3</sup>	SE AFS (2011-12-16)
Further information	Substance can be easily absorbed through the skin., Refers white spirits which are preferably used as solvents and thinners for paint and varnish products, ie petroleum naphtha with its main components in the range of C7 to C12, and with up to 22 weight percent aromatics (up to about 20 volume percent) and less than 0.1 weight per cent benzene. See also note 40 on petroleum naphtha. Stated approximate value in ppm is based on white spirit to 22 weight percent aromatics.			
xylene	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC (2000-06-16)
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC (2000-06-16)
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		NGV	50 ppm	SE AFS (2015-



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			221 mg/m <sup>3</sup>	11-12)
Further information	Substance can be easily absorbed through the skin.			
		KTV	100 ppm 442 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Substance can be easily absorbed through the skin.			
n-butyl acetate	123-86-4	KTV	150 ppm 700 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			
		NGV	100 ppm 500 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded			
Orange, sweet, ext.	8028-48-6	KTV	50 ppm 300 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded, Turpentine from Nordic conifers is skin-sensitizing. The sensitizing effect, however, is not scientifically confirmed for individual terpenes, with the exception of 3-carene.			
		NGV	25 ppm 150 mg/m <sup>3</sup>	SE AFS (2015-11-12)
Further information	Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded, Turpentine from Nordic conifers is skin-sensitizing. The sensitizing effect, however, is not scientifically confirmed for individual terpenes, with the exception of 3-carene.			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
acetone	Workers	Skin contact	long term – systemic effects	186 mg/kg
	Workers	Inhalation	long term – systemic effects	1210 mg/m <sup>3</sup>
	Consumers	Ingestion	long term – systemic effects	62 mg/kg
	Consumers	Skin contact	long term – systemic effects	62 mg/kg
	Consumers	Inhalation	long term – systemic effects	200 mg/m <sup>3</sup>
copper	Workers	Inhalation	short term – local effects	2420 mg/m <sup>3</sup>
	Workers	Skin contact	short term – systemic effects	273 mg/kg
	Workers	Inhalation	short term – systemic effects	20 mg/m <sup>3</sup>
	Workers	Skin contact	long term – systemic effects	137 mg/kg
	Consumers	Skin contact	short term – systemic effects	273 mg/kg
	Consumers	Inhalation	short term – systemic effects	20 mg/m <sup>3</sup>

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			effects	
n-butyl acetate	Workers	Inhalation	short term – systemic effects	960 mg/m <sup>3</sup>
	Workers	Inhalation	long term – systemic effects	480 mg/m <sup>3</sup>
	Consumers	Inhalation	short term – systemic effects	859,7 mg/m <sup>3</sup>
	Consumers	Inhalation	long term – systemic effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	long term – local effects	102,34 mg/m <sup>3</sup>
	Workers	Inhalation	long term – local effects	480 mg/m <sup>3</sup>
	Workers	Inhalation	short term – local effects	960 mg/m <sup>3</sup>
	Consumers	Inhalation	short term – local effects	859,7 mg/m <sup>3</sup>
zinc powder - zinc dust (stabilized)	Workers	Inhalation	long term – systemic effects	5 mg/m <sup>3</sup>
	Workers	Skin contact	long term – systemic effects	83 mg/kg
	Consumers	Ingestion	long term – systemic effects	0,83 mg/kg
	Consumers	Skin contact	long term – systemic effects	83 mg/kg
	Consumers	Inhalation	long term – systemic effects	2,5 mg/m <sup>3</sup>
Orange, sweet, ext.	Consumers	Ingestion	long term – systemic effects	4,44 mg/kg
	Workers	Skin contact	long term – systemic effects	8,89 mg/kg
	Consumers	Skin contact	long term – systemic effects	4,44 mg/kg
	Workers	Skin contact	short term – local effects	0,1858 mg/cm <sup>2</sup>
	Consumers	Skin contact	short term – local effects	0,0929 mg/cm <sup>2</sup>
	Workers	Inhalation	long term – systemic effects	31,1 mg/m <sup>3</sup>
	Consumers	Inhalation	long term – systemic effects	7,78 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
acetone	Soil	29,5 mg/kg
	Fresh water	10,6 mg/l
	Fresh water sediment	30,4 mg/kg
	Marine water	1,06 mg/l
	Marine sediment	3,04 mg/kg
	STP	100 mg/l
copper	Soil	65,5 mg/kg

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	Fresh water	0,0078 mg/l
	Fresh water sediment	87 mg/kg
	Marine water	0,0052 mg/l
	Marine sediment	676 mg/kg
	STP	0,230 mg/l
n-butyl acetate	Soil	0,0903 mg/kg
	Fresh water	0,18 mg/l
	Fresh water sediment	0,981 mg/kg
	STP	35,6 mg/l
	Marine water	0,018 mg/l
	Marine sediment	0,0981 mg/kg
zinc powder - zinc dust (stabilized)	Fresh water	0,0206 mg/l
	Fresh water sediment	117,8 mg/kg
	Marine water	0,0061 mg/l
	Soil	35,6 mg/kg
	Marine sediment	56,5 mg/kg
Orange, sweet, ext.	Soil	0,261 mg/kg
	STP	2,1 mg/l
	Marine water	0,00054 mg/l
	Fresh water	0,0054 mg/l
	Marine sediment	0,13 mg/kg
	Fresh water sediment	1,3 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

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 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.

Skin and body protection

: Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection

: In the case of vapour formation use a respirator with an

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approved filter.  
In the case of dust or aerosol formation use respirator with an approved filter.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Colour	: No data available
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Freezing point	: No data available
Boiling point/boiling range	: -44 °C
Flash point	: -97 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Self-ignition	: No data available
Auto-ignition temperature	: No data available
Smoldering temperature	: No data available
Decomposition temperature	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available

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Density : No data available  
Bulk density : No data available  
Solubility(ies)  
Water solubility : immiscible  
Solubility in other solvents : No data available  
Partition coefficient: n-octanol/water : No data available  
Decomposition temperature : No data available  
Viscosity, dynamic : No data available  
Viscosity, kinematic : No data available  
Flow time : No data available

### 9.2 Other information

No data available

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## 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 : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

##### **propane:**

Acute inhalation toxicity : LC50 (Rat): 800000 ppm  
Exposure time: 0,25 h

##### **acetone:**

Acute oral toxicity : LD50 (Rabbit): 4.700 - 5.800 mg/kg  
(Mouse): 3.000 mg/kg  
(Rat): 9.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

##### **copper:**

Acute oral toxicity : Assessment: 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 oral toxicity : LD50 (Rat): 8.700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 6.350 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Assessment: 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

Assessment: The component/mixture is moderately toxic after single contact with skin.

### **zinc powder - zinc dust (stabilized):**

Acute oral toxicity : (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5,41 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

### **amines, hydrogenated tallow alkyl:**

Acute oral toxicity : LD50 (Rat): > 2.000 - 5.000 mg/kg  
Method: OECD Test Guideline 401

### **Skin corrosion/irritation**

Causes skin irritation.

### **Product:**

Remarks: May cause skin irritation and/or dermatitis.

### **Components:**

#### **acetone:**

Remarks: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.

#### **copper:**

Remarks: May cause skin irritation in susceptible persons.

#### **xylene:**

Result: Skin irritation

#### **amines, hydrogenated tallow alkyl:**

Result: Skin irritation

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Remarks: May cause skin irritation in susceptible persons.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Product:**

Remarks: Eye irritation

#### **Components:**

##### **acetone:**

Remarks: Severe eye irritation

##### **copper:**

Result: Eye irritation

##### **amines, hydrogenated tallow alkyl:**

Result: Irreversible effects on the eye

Remarks: May cause irreversible eye damage.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Product:**

Remarks: Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

May cause drowsiness or dizziness.

#### **Components:**

##### **solvent naphtha (petroleum), light arom.:**

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.



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### **n-butyl acetate:**

Assessment: May cause drowsiness or dizziness.

### **STOT - repeated exposure**

Not classified based on available information.

### **Components:**

#### **amines, hydrogenated tallow alkyl:**

Target Organs: Liver, Gastrointestinal tract, Immune system

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

#### **amines, hydrogenated tallow alkyl:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks: 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.

### **Components:**

#### **copper:**

Remarks: No data available

#### **zinc powder - zinc dust (stabilized):**

Remarks: No data available

#### **amines, hydrogenated tallow alkyl:**

Remarks: Solvents may degrease the skin.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **acetone:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 21.600 mg/l

##### **copper:**

M-Factor (Acute aquatic toxicity) : 10

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

##### **solvent naphtha (petroleum), light arom.:**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

##### **zinc powder - zinc dust (stabilized):**

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

##### **amines, hydrogenated tallow alkyl:**

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

##### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

No data available

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### 12.3 Bioaccumulative potential

#### Components:

##### **n-butyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 2,3

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 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.

#### Components:

##### **copper:**

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.

##### **zinc powder - zinc dust (stabilized):**

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.

##### **amines, hydrogenated tallow alkyl:**

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

European Waste Catalogue : 16 05 04 - gases in pressure containers (including halons) containing dangerous substances

### 13.1 Waste treatment methods

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**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.

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### SECTION 14: Transport information

#### 14.1 UN number

**ADR** : UN 1950  
**IMDG** : UN 1950  
**IATA** : UN 1950

#### 14.2 UN proper shipping name

**ADR** : AEROSOLS  
(, Copper metal powder)  
**IMDG** : AEROSOLS  
(Copper metal powder)  
**IATA** : Aerosols, flammable

#### 14.3 Transport hazard class(es)

**ADR** : 2  
**IMDG** : 2.1  
**IATA** : 2.1

#### 14.4 Packing group

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**IMDG**  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 203

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Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable gas

### IATA (Passenger)

Packing instruction : 203  
(passenger aircraft)  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable gas

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## 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

### 15.2 Chemical safety assessment

This information is not available.

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## SECTION 16: Other information

### Full text of H-Statements

H220 : Extremely flammable gas.  
H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H280 : Contains gas under pressure; may explode if heated.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H312 : 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.

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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.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Acute aquatic toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Asp. Tox. : Aspiration hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Gas : Flammable gases  
Flam. Liq. : Flammable liquids  
Press. Gas : Gases under pressure  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
SE AFS : Sweden. Occupational Exposure Limit Values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
SE AFS / NGV : Time Weighted Average  
SE AFS / KTV : Short Term Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic

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Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

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 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.

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