

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

1.1. Product identifier	
Name of product	Gold-Spray Code-Nr. 111050
<b>1.2. Relevant identified uses of the substance or mixtu Recommended intended purpose(s)</b> Technical Aerosols	ure and uses advised against
1.3. Details of the supplier of the safety data sheet	
Distributor	WEICON GmbH & Co. KG Königsberger Str. 255, DE-48157 Münster Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244 E-Mail : msds@weicon.de Internet : www.weicon.de
Advice	Produktsicherheit / Product-Safety-Department Phone : +49(0)251 / 9322 - 0 Fax : +49(0)251 / 9322 - 244 E-mail (competent person): msds@weicon.de
1.4. Emergency telephone number	
	EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English) TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
Manufacturer	WEICON GmbH & Co. KG Königsberger Str. 255, DE-48157 Münster
1.4. Emergency telephone number	
	GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h): Tel: ++49 69 222 25285 (Deutsch, Englisch)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and categories	Hazard Hazard Statements Classification procedure
Aerosol 1	H222, H229
Eye Irrit. 2	H319
STOT SE 3	H336
Aquatic Acute 1	
Aquatic Chronic 2	
Hazard Statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.



### H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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



### Signal word

Danger

### **Hazard Statements**

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

### **Precautionary Statements**

P102	Keep out of reach of children.
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.
P261	Avoid breathing vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
P338	easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container to hazardous or special waste collection point.

#### ! Hazardous ingredients for labeling

acetone, ethyl-acetate, Solvent naphtha (petroleum), light arom. (NOTA P)

#### Supplemental Hazard information (EU)

Repeated exposure may cause skin dryness or cracking.

#### 2.3. Other hazards

#### Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



# **! SECTION 3: Composition/ information on ingredients**

# 3.1. Substances

not applicable

#### 3.2. Mixtures

#### ! Description

Mixture of active ingredients with propellant

#### **Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
67-64-1	200-662-2	acetone	20 < 25	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
106-97-8	203-448-7	butane	10 < 20	Flam. Gas 1, H220 / Press. Gas
7440-66-6	231-175-3	zinc powder - zinc dust (stabilized)	0,25 < 2,5	Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
141-78-6	205-500-4	ethyl-acetate	15 < 20	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
64742-95-6	265-199-0	Solvent naphtha (petroleum), light arom. (NOTA P)	2,5 < 10	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H335, H336 / Aquatic Chronic 2, H411 / Skin Irrit.2, H315 / , EUH066
74-98-6	200-827-9	propane	10 < 20	Flam. Gas 1, H220 / Press. Gas, H280
7440-50-8	231-159-6	Copper	2,5 < 10	Acute Tox. 4, H302 / Aquatic Acute 1, H400 M=10 / Aquatic Chronic 2, H411

#### REACH

CAS No	Name	<b>REACH registration number</b>
67-64-1	acetone	01-2119471330-49
106-97-8	butane	01-2119474691-32
7440-66-6	zinc powder - zinc dust (stabilized)	01-2119467174-37
141-78-6	ethyl-acetate	01-2119475103-46
64742-95-6	Solvent naphtha (petroleum), light arom. (NOTA P)	01-2119455851-35
74-98-6	propane	01-2119486944-21
7440-50-8	Copper	01-2119480154-42

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Remove contaminated soaked clothing immediately.

#### In case of inhalation

Remove the casualty into fresh air and keep him immobile. In the event of symptoms refer for medical treatment.

#### In case of skin contact

In case of contact with skin wash off with water. Consult a doctor if skin irritation persists.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

### In case of ingestion

Do not induce vomiting. Refer to medical treatment.



 4.2. Most important symptoms and effects, both acute and delayed Physician's information / possible symptoms
 Unconsciousness
 vomiting
 Respiratory complaints
 Headache
 Confusion

**4.3. Indication of any immediate medical attention and special treatment needed** No information available.

# **! SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Alcohol-resistant foam Dry powder Carbon dioxide sand

! Unsuitable extinguishing media

water

# 5.2. Special hazards arising from the substance or mixture

May lead to formation of explosive/easily ignitable vapour air mixtures. Danger of bursting In case of fire formation of dangerous gases possible. Carbon monoxide (CO) Carbon dioxide (CO2)

### 5.3. Advice for firefighters

# ! Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

### ! Additional information

Vapours are heavier than air and will spread on the ground.

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Collect contaminated firefighting water separately, must not be discharged into the drains.

# **! SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

! For non-emergency personnel Ensure adequate ventilation. Remove persons to safety.

Use personal protective clothing.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

#### 6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.

Do not discharge into the drains or bodies of water..

Do not discharge into the drains/surface waters/groundwater.



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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust). After taking up the material dispose according to regulation.

# ! Additional Information

Sort out leaky cans and dispose according to regulations.

#### 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

# **! SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

# ! Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace. Take measures against electrostatically charging.

# ! General protective measures

Avoid contact with eyes and skin Do not inhale aerosols Ensure sufficient ventilation.

#### ! Hygiene measures

At work do not eat, drink, smoke or take drugs. Remove soiled or soaked clothing immediately. Work in rooms with good ventilation. Wash hands before breaks and after work.

# ! Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking Do not spray on a naked flame or any incandescent material. Pressurized container. Do not pierce or burn even after use. Vapours can form an explosive mixture with air. Avoid effect of heat.

7.2. Conditions for safe storage, including any incompatibilities
 Requirements for storage rooms and vessels
 Keep in closed original container.
 Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

! Advice on storage compatibility Do not store together with animal feedstuffs. Do not store together with food.

#### ! Further information on storage conditions

Store at +5 till +25 °C. Protect from heat and direct solar radiation. Storage temperature may not exceed 50°C (=122°F). Store container at cool and aired place. Store in a dry place.

7.3. Specific end use(s) Recommendation(s) for intended use See section 1.2



# **! SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

! Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
67-64-1	Acetone	8 hours Short-term	1210 3620	500 1500	EH40/2005
106-97-8	Butane	8 hours Short-term	1450 1810	600 750	EH40/2005
7440-50-8	Copper: fume	8 hours Short-term	0.2 2		EH40/2005
7440-50-8	Copper: dusts and mists (as Cu)	8 hours	1		EH40/2005
141-78-6	Ethyl acetate	8 hours Short-term		200 400	EH40/2005
14807-96-6	Talc respirable dust	8 hours	1		EH40/2005
7440-50-8	Kupfer (CH)	MAK, 8 hours Short-term	0,1 0,2		Metallrauch, Lunge, Methode: NIOSH

# Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
67-64-1 DNEL-/PNEC- DNEL worker		8 hours	1210	500	

CAS No	Substance name	Value	Code	Remark
141-78-6	ethyl-acetate	734 mg/m3	DNEL long-term inhalative (local)	
		63 mg/kg	DNEL long-term dermal (systemic)	
		1468 mg/m3	DNEL acute inhalative (systemic)	
		1468 mg/m3	DNEL acute inhalative (local)	
64742-95-6	Solvent naphtha (petroleum), light arom. (NOTA P)	150 mg/m3	DNEL long-term inhalative (systemic)	
		25 mg/kg	DNEL long-term dermal (systemic)	
67-64-1	acetone	186 mg/kg	DNEL long-term dermal (systemic)	
		1210 mg/m3	DNEL long-term inhalative (systemic)	
		2420 mg/m3	DNEL acute inhalative (local)	
7440-50-8	Copper	137 mg/kg	DNEL long-term dermal (systemic)	
		20 mg/m3	DNEL acute inhalative (systemic)	
		273 mg/kg	DNEL acute dermal, short-term (systemic)	
7440-66-6	zinc powder - zinc dust (stabilized)	83 mg/kg	DNEL long-term dermal (systemic)	
		5 mg/m3	DNEL long-term inhalative (systemic)	
PNEC				
CAS No	Substance name	Value	Code	Remark
141-78-6	ethyl-acetate	0,024 mg/l	PNEC aquatic, marine water	
		0,24 mg/l	PNEC aquatic, freshwater	



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DNEL-/PNEC-values (continued)				
Substance name	Value	Code	Remark	
	0,34 mg/kg	PNEC sediment, freshwater		
	0,115 mg/kg	PNEC sediment, marine water		
Solvent naphtha (petroleum), light arom. (NOTA P)	0,99 mg/kg	PNEC soil, marine water		
acetone	10,6 mg/l	PNEC aquatic, freshwater		
	30,4 mg/kg	PNEC sediment, freshwater		
	1,06 mg/l	PNEC aquatic, marine water		
	3,04 mg/kg	PNEC sediment, marine water		
Copper	0,0052 mg/l	PNEC aquatic, marine water		
	87 mg/kg	PNEC sediment, freshwater		
	676 mg/kg	PNEC sediment, marine water		
	0,0078 mg/l	PNEC aquatic, freshwater		
	65,5 mg/kg	PNEC soil, freshwater		
	0,23 mg/l	PNEC sewage treatment plant (ST	P)	
zinc powder - zinc dust (stabilized)	56,5 mg/kg	PNEC sediment, marine water		
	0,0061 mg/l	PNEC aquatic, marine water		
	0,0206 mg/l	PNEC aquatic, freshwater		
	117,8 mg/kg	PNEC sediment, freshwater		
	Solvent naphtha (petroleum), light arom. (NOTA P) acetone Copper	Substance name         Value           0,34 mg/kg         0,115 mg/kg           0,115 mg/kg         0,99 mg/kg           arom. (NOTA P)         10,6 mg/l           acetone         10,6 mg/l           30,4 mg/kg         1,06 mg/l           30,4 mg/kg         1,06 mg/l           676 mg/kg         676 mg/kg           675 mg/kg         0,0078 mg/l           zinc powder - zinc dust (stabilized)         56,5 mg/kg           0,0061 mg/l         0,0206 mg/l	Substance nameValueCode0,34 mg/kgPNEC sediment, freshwater0,115 mg/kgPNEC sediment, marine waterSolvent naphtha (petroleum), light arom. (NOTA P)0,99 mg/kgPNEC soil, marine wateracetone10,6 mg/lPNEC aquatic, freshwater30,4 mg/kgPNEC sediment, freshwater1,06 mg/lPNEC aquatic, marine water30,4 mg/kgPNEC sediment, freshwater3,04 mg/kgPNEC sediment, marine water3,04 mg/kgPNEC sediment, marine water60 pper0,0052 mg/lPNEC aquatic, marine water676 mg/kgPNEC sediment, marine water676 mg/kgPNEC sediment, freshwater676 mg/kgPNEC sediment, marine water0,0078 mg/lPNEC sediment, marine water0,0061 mg/lPNEC sediment, marine water0,0061 mg/lPNEC aquatic, marine water0,0206 mg/lPNEC aquatic, freshwater	

#### Additional advice

The statutory local and national regulations have to be observed.

#### 8.2. Exposure controls

#### **Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.

Short-term: filter apparatus, filter AX/P2, otherwise environment-independent breathing apparatus.

#### Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

# Eye protection

tightly fitting goggles

#### Other protection measures

protective clothing

#### Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.



Gold-Spray

# **! SECTION 9: Physical and chemical properties**

		<b>Colour</b> Jold-coloured	(		e	
Odour threshold not determined						
Important health, safety and environmental information						
	Value	Temperature	at	Method	Remark	
pH value	not determined					
boiling point	not applicable					
melting point	not determined					
Flash point	not applicable				Aerosol	
Vapourisation rate	not determined					
Flammable (solid)	not determined					
Flammability (gas)	not determined					
Ignition temperature	> 200 °C				estimate	
Self ignition temperature					The product is not self-igniting.	
Lower explosion limit	not determined					
Upper explosion limit	not determined					
Vapour pressure	not determined	20 °C				
Relative density	not determined					
Vapour density	not determined					
Solubility in water					No or low immiscibility	
Solubility/other	not determined					
Partition coefficient n- octanol/water (log P O/W)	not determined					
Decomposition temperature	not determined					
Viscosity dynamic	not determined					
Viscosity kinematic	not determined					
<b>Oxidising properties</b> No information available.						



### **Explosive properties**

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

### 9.2. Other information

No information available.

# **! SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

#### **10.3. Possibility of hazardous reactions** No information available.

#### 10.4. Conditions to avoid

Keep away from heat. Formation of explosive gas/air mixtures.

#### **10.5. Incompatible materials** No information available.

#### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide. Toxic gases/vapours

#### **Thermal decomposition**

Remark No decomposition if used as directed.

# **! SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 2000 mg/kg		ATE	
LD50 acute dermal	> 2000 mg/kg	rabbit		CAS: 67-64-1
LC50 acute inhalation	5,41 mg/l (4 h)	rat		CAS: 7440-66-6
Skin irritation	low irritant effect - not necessary to label			
Eye irritation	irritant			
Skin sensitization	non-sensitizing			
Subacute Toxicity - Carcinogenicity				
	Value	Species	Method	Validation



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	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.
Reproduction- Toxicity				No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.
<sup>!</sup> Specific target of May cause drowsine	rgan toxicity (single e ess or dizziness.	xposure)		

#### ! Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may caus skin irritation. Vapours may cause dizziness, headaches and tiredness

May irritate the mucosae.

Experiences at humans: may cause hypersensitivity reactions on skin in case of persons suffering from hypersensitivity. Causes eye irritation.

Inhalation causes narcotic effect/intoxication.

#### ! Additional information

The product is to be handled with the caution usual with chemicals. Other hazardous properties may not be excluded. The product has not been tested. The information is derived from the properties of the individual components.

# **! SECTION 12: Ecological information**

#### 12.1. Toxicity

No information available.

#### 12.2. Persistence and degradability

No information available.

#### 12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

#### 12.4. Mobility in soil

No information available.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6. Other adverse effects

# General regulation

Very toxic to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.



# **! SECTION 13: Disposal considerations**

13.1. Waste treatment methods
Waste code No.
16 05 04*

Name of waste gases in pressure containers (including halons) containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

#### ! Recommendations for the product

Remove in accordance with local official regulations. Dispose of as hazardous waste.

#### **Recommendations for packaging**

Dispose of according to the local waste regulations.

! General information

For proper waste disposal a complete emptying of the tin is necessary. Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

# **! SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1950	1950	1950
14.2. UN proper shipping name	AEROSOLS (Copper)	AEROSOLS (Copper)	Aerosols, flammable (Copper)
14.3. Transport hazard class(es)	2.1	2.1	2.1
14.4. Packing group	-	-	-
14.5. Environmental hazards	Yes	Yes	Yes
<b>14.6. Special precautions for</b> No information available.	user		
14.7. Transport in bulk accord not applicable	ding to Annex II of MARPOL	73/78 and the IBC Code	
Land and inland navigation to Hazard label(s) 2.1	ransport ADR/RID		

tunnel restriction code D Classification code 5F transport in "limited quantities" according to 3.4 ADR is possible

# Marine transport IMDG

MARINE POLLUTANT Transport as limited quantities according to 3.4 IMDG Code is possible.



# **! SECTION 15: Regulatory information**

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

VOC standard	
VOC content	85,3 %
VOC value	738,2 g/L

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **! SECTION 16: Other information**

#### ! Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed. For industrial use only.

#### **Further information**

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EUdirectives, WITHOUT taking into account the special national directives concerning the handling of hazardous

substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.0

- EUH066 Repeated exposure may cause skin dryness or cracking.
- 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.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335, -?-
- H336 May cause drowsiness or dizziness.
- 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.