

**! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Name of product** Gold-Spray  
Code-Nr. 111050

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended intended purpose(s)**

Technical Aerosols

**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 Hazard categories	Hazard Statements	Classification procedure
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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]



GHS02



GHS07



GHS09

### 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 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and 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	REACH registration number
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.



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**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.

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**! 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 (CO<sub>2</sub>)

**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.

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**! 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

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**! 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	1210	500	EH40/2005
		Short-term	3620	1500	
106-97-8	Butane	8 hours	1450	600	EH40/2005
		Short-term	1810	750	
7440-50-8	Copper: fume	8 hours	0.2		EH40/2005
		Short-term	2		
7440-50-8	Copper: dusts and mists (as Cu)	8 hours	1		EH40/2005
141-78-6	Ethyl acetate	8 hours		200	EH40/2005
		Short-term		400	
14807-96-6	Talc respirable dust	8 hours	1		EH40/2005
7440-50-8	Kupfer (CH)	MAK, 8 hours	0,1		Metallrauch, Lunge, Methode: NIOSH
		Short-term	0,2		

**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	acetone	8 hours	1210	500	

**DNEL-/PNEC-values****DNEL worker**

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	



# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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## Gold-Spray

### DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
		0,34 mg/kg	PNEC sediment, freshwater	
		0,115 mg/kg	PNEC sediment, marine water	
64742-95-6	Solvent naphtha (petroleum), light arom. (NOTA P)	0,99 mg/kg	PNEC soil, marine water	
67-64-1	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	
7440-50-8	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 (STP)	
7440-66-6	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	

### 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.

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

aerosol

**Colour**

gold-coloured

**Odour**

solvent-like

**Odour threshold**

not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>boiling point</b>	not applicable				
<b>melting point</b>	not determined				
<b>Flash point</b>	not applicable				Aerosol
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	> 200 °C				estimate
<b>Self ignition temperature</b>					The product is not self-igniting.
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined	20 °C			
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					No or low immiscibility
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity dynamic</b>	not determined				
<b>Viscosity kinematic</b>	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
<b>LD50 acute oral</b>	> 2000 mg/kg			ATE
<b>LD50 acute dermal</b>	> 2000 mg/kg	rabbit		CAS: 67-64-1
<b>LC50 acute inhalation</b>	5,41 mg/l (4 h)	rat		CAS: 7440-66-6
<b>Skin irritation</b>	low irritant effect - not necessary to label			
<b>Eye irritation</b>	irritant			
<b>Skin sensitization</b>	non-sensitizing			

**Subacute Toxicity - Carcinogenicity**

	Value	Species	Method	Validation
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Value	Species	Method	Validation
<b>Mutagenicity</b>			No experimental information on genotoxicity in vitro available.
<b>Reproduction-Toxicity</b>			No indications of toxic effects were observed in reproduction studies in animals.
<b>Carcinogenicity</b>			No indications of carcinogenic effects are available from long-term trials.

**! Specific target organ toxicity (single exposure)**

May cause drowsiness or dizziness.

**! Experiences made from practice**

Often and long skin contact may cause degreasing and desiccation of the skin which may cause 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**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	1950	1950	1950
<b>14.2. UN proper shipping name</b>	AEROSOLS (Copper)	AEROSOLS (Copper)	Aerosols, flammable (Copper)
<b>14.3. Transport hazard class(es)</b>	2.1	2.1	2.1
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes

**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not applicable**Land and inland navigation transport ADR/RID**

Hazard label(s) 2.1

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.



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**! 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.

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**! 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 EU-directives, 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.