SAFETY DATA SHEET

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

Sample Concentrate Gold Effect Spray 750 ml 17-01013

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

1.1 Product identifier

Trade name : Sample Concentrate Gold Effect Spray 750 ml 17-01013
Material number : 08070607Z

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 : msds.eckart@altana.com

Responsible/issuing person

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

SECTION 2: Hazards identification

GHS Classification

: Flammable liquids, Category 2, H225
Acute toxicity, Category 5, Oral, H303
Skin corrosion/irritation, Category 2, H315
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-Labelling
Symbol(s) :

Signal word : Danger

Hazard statements : H225: Highly flammable liquid and vapour.
H303: May be harmful if swallowed.
H315: Causes skin 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.
P233 Keep container tightly closed.
P280 Wear protective gloves/ protective clothing/ eye
protection/ face protection.
Response:
P312 Call a POISON CENTER/doctor if you feel unwell.
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
Identification Solvent naphtha (petroleum), light arom.
CAS-No. 64742-95-6
SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EINECS-No.</th>
<th>Classification and labelling</th>
<th>Concentration[%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified</td>
<td>64742-95-6</td>
<td>Flam. Liq.;3;H226 Acute Tox.;5;H303</td>
<td>25 - 50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute Tox.;5;H313 STOT SE;3;H335, H336</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Asp. Tox.;1;H304 Aquatic Chronic;2;H411</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha</td>
<td>64742-49-0</td>
<td>Flam. Liq.;2;H225 Asp. Tox.;1;H304</td>
<td>25 - 50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit.;2;H315 STOT SE;3;H336</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Chronic;2;H411</td>
<td></td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>123-86-4</td>
<td>Flam. Liq.;3;H226 STOT SE;3;H336</td>
<td>1 - 10</td>
</tr>
<tr>
<td>204-658-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>7440-50-8</td>
<td>Acute Tox.;4;H302</td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Move the victim to fresh air.

Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.

For the full text of the H-Statements mentioned in this Section, see Section 16.
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: Flush eyes with water as a precaution. 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

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

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. 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.
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).

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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 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Use only explosion-proof equipment.
- 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.

Other data:

- No decomposition if stored and applied as directed.
7.3 Specific end use(s)

This information is not available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Germany:**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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<tr>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified</td>
<td>64742-95-6</td>
<td>AGW</td>
<td>100 mg/m³</td>
<td>2009-02-16</td>
<td>DE TRGS 900</td>
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<tr>
<td>Peak-limit: excursion factor (category)</td>
<td>2;(II)</td>
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<td></td>
<td></td>
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<tr>
<td>Further information</td>
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<td></td>
<td>Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900</td>
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<td>Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha</td>
<td>64742-49-0</td>
<td>AGW</td>
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<td>AGW</td>
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### Further information

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<th>Conc.</th>
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<th>Std.</th>
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<td>n-butyl acetate</td>
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<td>62 ppm</td>
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<td>2012-09-13</td>
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<td>Copper</td>
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<td>1 mg/m³</td>
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<td>TWA</td>
<td>50 ppm</td>
<td>221 mg/m³</td>
<td>2000-06-16</td>
<td>2000/39/EC</td>
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<td>STEL</td>
<td>100 ppm</td>
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<td>2000-06-16</td>
<td>2000/39/EC</td>
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<td>10 mg/m³</td>
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<td>DE TRGS 900</td>
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</tbody>
</table>
8.2 Exposure controls

**Personal protective equipment**

Eye protection : Safety glasses

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: Use suitable breathing protection if workplace concentration requires.
Respirator with a vapour filter (EN 141)

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.

**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 : No data available

Odour : characteristic

pH : No data available

Freezing point : No data available

Boiling point/boiling range : 45 °C

Flash point : -18 °C

Bulk density : No data available

Flammability (solid, gas) : No data available

Auto-flammability : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Density : ca. 0,91 g/cm³

Water solubility : No data available

Miscibility with water : immiscible

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 : see user defined free text
Viscosity, kinematic : > 21 mm²/s (40 °C)
Flow time : 10 - 12 s at 20 °C
Cross section: 4 mm
Method: DIN 53211

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.

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:
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified :
Acute oral toxicity : LD50 Rat: 3 492 mg/kg

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

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

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

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

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

*zinc powder - zinc dust (stabilised)*:
Acute oral toxicity: Rat: > 2 000 mg/kg

*amines, hydrogenated tallow alkyl*:
Acute oral toxicity: LD50 Rat: > 2 000 - 5 000 mg/kg
Method: OECD Test Guideline 401

**Skin corrosion/irritation**

**Product**
May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**
Product
Vapours may cause irritation to the eyes, respiratory system and the skin.

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

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
SECTION 12: Ecological information

12.1 Toxicity

**Components:**

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

Ecotoxicology Assessment

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

**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.

**Zinc (7440-66-6):**

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.

Amines, hydrogenated tallow alkyl (61788-45-2):

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.

12.2 Persistence and degradability

degrease the skin.
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.

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
       (, Copper metal powder)
   TDG: PAINT
   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: II
- Classification Code: F1
- Hazard Identification Number: 33
- Labels: 3
- Tunnel restriction code: (D/E)

**TDG**
- Packaging group: II
- Labels: 3

**CFR**
- Packaging group: II
- Labels: 3

**IMDG**
- Packaging group: II
- Labels: 3
- EmS Number: F-E, S-E

**IATA**
- Packing instruction (cargo aircraft): 364
- Packing instruction (passenger aircraft): 353
- Packing instruction (LQ): Y341
- Packaging group: II
- 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).

15.2 Chemical safety assessment
No data available

SECTION 16: Other information

Full text of H-Studies

H225 : Highly flammable liquid and vapour.
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.
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.

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.