

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**GOLD ETCH**

Revision date: 25.01.2017

Product code: 00310-0006

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

GOLD ETCH

**Art.-No.**

003.01.300

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Cleaner for electroplating equipment accessories

**1.3. Details of the supplier of the safety data sheet**

Company name: Gramm Technik GmbH  
Geschäftsbereich Dental / Dental Division  
Street: Einsteinstraße 4  
Place: D-71254 Ditzingen-Heimerdingen  
Telephone: +49 (0) 7152 / 5009-60      Telefax: +49 (0) 7152/5009-80  
e-mail: gramm.dental@t-online.de  
Responsible Department: Technische Dokumentation  
Responsible for the safety data sheet: sds@gbk-ingelheim.de

**1.4. Emergency telephone number:** INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24  
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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazard Statements:

Causes damage to organs through prolonged or repeated exposure.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Potassium iodide

Iodine

**Signal word:** Danger**Pictograms:****Hazard statements**

H372

Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements**

P270

Do not eat, drink or smoke when using this product.

P314

Get medical advice/attention if you feel unwell.

**2.3. Other hazards**

Not known.

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

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**3.2. Mixtures****Chemical characterization**

Aqueous solution of potassium iodide

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7681-11-0	Potassium iodide			< 55 %
	231-659-4		01-2119966161-40	
	STOT RE 1; H372			
7553-56-2	Iodine			< 2 %
	231-442-4	053-001-00-3	01-2119485285-30	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Aquatic Acute 1 (M-Factor = 1); H302 H312 H332 H315 H319 H335 H372 H400			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.  
If you feel unwell, seek medical advice.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

**After contact with skin**

Wash off with soap and plenty of water.

**After contact with eyes**

Rinse thoroughly with plenty of water, also under the eyelids.  
If eye irritation persists, consult a specialist.

**After ingestion**

Allow the affected person to vomit themselves, if necessary.  
Drink plenty of water.  
Never give anything by mouth to an unconscious person.  
Summon a doctor immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

Causes damage to organs through prolonged or repeated exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

**Unsuitable extinguishing media**

Full water jet.

**5.2. Special hazards arising from the substance or mixture**

Fire may produce:  
Iodine compounds.

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### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.  
Protective suit.

### Additional information

Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

In case of vapour formation use respirator.  
Use personal protective clothing.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.

### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with eyes, skin or mucous membrane.  
Use only in thoroughly ventilated areas.

#### Advice on protection against fire and explosion

No special protective measures against fire required.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

#### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Cleaner for electroplating equipment accessories

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7553-56-2	Iodine	-	-		TWA (8 h)	WEL
		0.1	1.1		STEL (15 min)	WEL

#### Additional advice on limit values

No data available.

### 8.2. Exposure controls

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### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

### Protective and hygiene measures

Wash hands before breaks and at the end of workday.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

### Eye/face protection

Safety goggles with side protection (EN 166).

### Hand protection

Protective gloves resistant to chemicals made off natural-rubber latex, minimum coat thickness 0.6 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Lapren 706> made by [www.kcl.de](http://www.kcl.de).

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

### Skin protection

Long sleeved clothing (EN 368).

### Respiratory protection

In case of vapour formation use respirator.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	Dark brown
Odour:	Odourless

pH-Value:

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#### Test method

### Changes in the physical state

Initial boiling point and boiling range:

n.d.

Flash point:

n.a.

Lower explosion limits:

n.a.

Upper explosion limits:

Ignition temperature:

n.a.

Density (at 20 °C):

1,82 g/cm³

Water solubility:  
(at 20 °C)

Miscible

### 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

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

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No hazardous reactions known.

**10.4. Conditions to avoid**

Not known.

**10.5. Incompatible materials**

No materials to be especially mentioned.

**10.6. Hazardous decomposition products**

iodine compounds

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

Based on available data, the classification criteria are not met.  
No toxicological data available.

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure. (Potassium iodide)

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience****Other observations**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
Contact with eyes, skin or oral tissues may cause irritation.

**SECTION 12: Ecological information****12.1. Toxicity**

Ecological data are not available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a  
PBT / vPvB substance.

**12.6. Other adverse effects**

Hazardous water pollutant.

**Further information**

Do not flush into surface water or sanitary sewer system.

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Where possible recycling is preferred to disposal.  
Can be incinerated, when in compliance with local regulations.

**Waste disposal number of waste from residues/unused products**

110112 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); aqueous rinsing liquids other than those mentioned in 11 01 11

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.  
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.  
Packaging that cannot be cleaned should be disposed of like the product.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** -

**Other applicable information**

No hazardous material as defined by the transport regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 0 %

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG = International Maritime Code for Dangerous Goods  
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
MARPOL = International Convention for the Prevention of Pollution from Ships  
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

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GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*