

## ROTOFLEX XA 6-209 Rich Gold

Version 1.0      Revision Date: 03/27/2018      SDS Number: 102000028898      Date of last issue: -  
Date of first issue: 03/27/2018

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**SECTION 1. IDENTIFICATION**

Product name : ROTOFLEX XA 6-209 Rich Gold

Product code : 060250C20

**Manufacturer or supplier's details**

Company name of supplier : ECKART GmbH

Address : Guentersthal 4  
Hartenstein 91235

Telephone : +499152770

Telefax : +499152777008

Emergency telephone : CHEMTREC: 800-424-9300  
CHEMTREC: 1-703-527-3387 (International)

GBK Gefahrgut Buero 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****GHS classification in accordance with the Hazardous Products Regulations**

Flammable solids : Category 1

Combustible dust : Category 1

Acute toxicity (Oral) : Category 4

Eye irritation : Category 2A

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

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Hazard Statements : H228 Flammable solid.  
May form combustible dust concentrations in air.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use for extinction: Special powder for metal fires.
P370 + P378	In case of fire: Use for extinction: Dry sand.

**Disposal:**

P501	Dispose of contents/ container to an approved waste disposal plant.
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Hazardous ingredients which must be listed on the label:

Copper

**Other hazards**

None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

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Chemical name	CAS-No.	Concentration (% w/w)
Copper	7440-50-8	>= 50 - < 70
Octadecanoic acid	57-11-4	>= 1 - < 5

### SECTION 4. FIRST AID MEASURES

- General advice : Take the victim into fresh air.  
 Do not leave the victim unattended.  
 Move out of dangerous area.  
 Show this material safety data sheet to the doctor in attendance.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
  
 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.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
 Causes serious eye irritation.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Special powder against metal fire  
 Dry sand  
 ABC powder
- Unsuitable extinguishing media : Water  
 High volume water jet
- Specific hazards during fire : Do not allow run-off from fire fighting to enter drains or water

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fighting courses.

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.  
Use a water spray to cool fully closed containers.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Evacuate personnel to safe areas.  
Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Remove all sources of ignition.

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.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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- Avoid dust formation.  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid creating dust.  
Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- 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.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : 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.
- Further information on storage stability : Keep in a dry place.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of	Control parameters /	Basis
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		exposure)	Permissible concentration	
Copper	7440-50-8	TWA	1 mg/m <sup>3</sup> (Copper)	CA AB OEL
		TWAEV	1 mg/m <sup>3</sup> (Copper)	CA QC OEL
		TWA	0.2 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	0.2 mg/m <sup>3</sup> (Copper)	CA QC OEL
		TWA (Dust and mist)	1 mg/m <sup>3</sup> (Copper)	CA AB OEL
		TWA (Fumes)	0.2 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (dusts and mists)	1 mg/m <sup>3</sup> (Copper)	CA QC OEL
		TWAEV (Fumes)	0.2 mg/m <sup>3</sup> (Copper)	CA QC OEL
		TWA (Dust and mists)	1 mg/m <sup>3</sup> (Copper)	CA BC OEL
		TWA (Fumes)	0.2 mg/m <sup>3</sup> (Copper)	CA BC OEL
		TWA	1 mg/m <sup>3</sup> (Copper)	ACGIH
		TWA	0.2 mg/m <sup>3</sup> (Copper)	ACGIH
		TWA (Dust and mist)	1 mg/m <sup>3</sup> (Copper)	ACGIH
		TWA (Fumes)	0.2 mg/m <sup>3</sup> (Copper)	ACGIH
Octadecanoic acid	57-11-4	TWA	10 mg/m <sup>3</sup>	ACGIH

**Personal protective equipment**

Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
 Respirator with a dust filter  
 P1 filter

Hand protection  
 Material : Leather

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- Remarks : Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. Recommended preventive skin protection  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Safety glasses  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Long sleeved clothing  
Safety shoes  
Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : General industrial hygiene practice.  
Do not smoke.  
Wash hands before breaks and at the end of workday.  
Keep away from food and drink.  
Keep away from tobacco products.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : powder  
Color : gold  
Odor : odorless  
Odor Threshold : No data available  
pH : No data available  
Melting point/freezing point : No data available  
Initial boiling point and boiling range : No data available  
Flash point : No data available  
Evaporation rate : No data available  
Flammability (solid, gas) : The substance or mixture is a flammable solid with the category 1.  
  
combustible dust

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Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Solubility(ies)	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed. No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	:	No data available Heat, flames and sparks.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed.

#### Ingredients:

#### Copper:

Acute oral toxicity	:	Assessment: The component/mixture is moderately toxic after single ingestion.
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#### Skin corrosion/irritation

Not classified based on available information.



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**Ingredients:**

**Copper:**

Remarks: May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Ingredients:**

**Copper:**

Result: Eye irritation

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**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**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Ingredients:**

**Copper:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Ingredients:****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.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**Ingredients:****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.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : 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.

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In accordance with local and national regulations.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No.	:	UN 3089
Proper shipping name	:	Metal powder, flammable, n.o.s.
Class	:	4.1
Packing group	:	II
Labels	:	Flammable Solid
Packing instruction (cargo aircraft)	:	448
Packing instruction (passenger aircraft)	:	445

##### IMDG-Code

UN number	:	UN 3089
Proper shipping name	:	METAL POWDER, FLAMMABLE, N.O.S. (Gold bronze powder, Copper metal powder)
Class	:	4.1
Packing group	:	II
Labels	:	4.1
EmS Code	:	F-G, S-G
Marine pollutant	:	yes
Remarks	:	IMDG Code segregation group 7 - Heavy metals and their salts, IMDG Code segregation group 15 - Powdered metals

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Domestic regulation

##### TDG

UN number	:	UN 3089
Proper shipping name	:	METAL POWDER, FLAMMABLE, N.O.S. (Gold bronze powder)
Class	:	4.1
Packing group	:	II
Labels	:	4.1
ERG Code	:	170
Marine pollutant	:	no

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### SECTION 15. REGULATORY INFORMATION

<b>NPRI Ingredients</b>	:	Copper
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Zinc  
Aluminum

**The ingredients of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL

TSCA : On TSCA Inventory

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

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### SECTION 16. OTHER INFORMATION

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

ACGIH / TWA : 8-hour, time-weighted average

CA AB OEL / TWA : 8-hour Occupational exposure limit

CA BC OEL / TWA : 8-hour time weighted average

CA QC OEL / TWAEV : Time-weighted average exposure value

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development;

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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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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