E-mail: gcat@matthey.com

www.alfa-chemcat.com

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 13.07.2010 Revision: 13.07.2010

1 Identification of substance

Product details

Trade name Copper (I) phenylacetylide

Stock number:

Manufacturer/Supplier:

Alfa Aesar GmbH & Co.KG Benzstrasse 3

D-76185 Karlsruhe / Germany

Informing department: Emergency information:

Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240

2 Hazards identification

Hazard designation:

C Corrosive F Highly flammable

Information pertaining to particular dangers for man and environment

GHS label elements

Response:

Storage:

Disposal:

15 Contact with water liberates extremely flammable gases. 17 Spontaneously flammable in air. 34 Causes burns. R R R

Danger

H250 - Catches fire spontaneously if exposed to air. H251 - Self-heating: may catch fire. H260 - In contact with water releases flammable gases which may ignite spontaneously.

Danger

Prevention:

H314 - Causes severe skin burns and eye damage.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P422 Store contents under inert gas.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

Chemical characterization: Designation: (CAS#)

Copper (I) phenylacetylide (CAS# 13146-23-1)

4 First aid measures

After skin contact

General information

Instantly remove any clothing soiled by the product. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. After inhalation

Instantly wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
Rinse opened eye for several minutes under running water. Then consult doctor.
Seek immediate medical advice. After eye contact After swallowing

5 Fire fighting measures

Suitable extinguishing agents For safety reasons unsuitable extinguishing

agents
Special hazards caused by the material, its products of combustion or flue gases:

Extinguishing powder. Do not use water.

Water.

Reacts violently with water Contact with water releases flammable gases Can be released in case of fire: Carbon monoxide and carbon dioxide Metal oxide
Wear self-contained breathing apparatus.

Protective equipment: Wear full protective suit.

6 Accidental release measures

Person-related safety precautions:

Measures for environmental protection: Measures for cleaning/collecting:

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Do not allow material to be released to the environment without proper governmental permits.
Use neutralizing agent.
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents
Keep away from ignition sources.
See Section 7 for information on safe handling
See section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7 Handling and storage

Additional information:

Handling

Information for safe handling:

Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.

Information about protection against

explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Substance/product is auto-flammable.

Storage

Requirements to be met by storerooms and containers:

Information about storage in one common

storage facility:

No special requirements.

Store away from water. Store away from air.

(Contd. on page 2)

(Contd. of page 1)

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 13.07.2010 Revision: 13.07.2010

Trade name Copper (I) phenylacetylide

Store away from oxidizing agents. Do not store together with acids.

Further information about storage conditions:

Store under dry inert gas.
Protect from humidity and keep away from water.
Avoid contact with air / oxygen.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Store in a locked cabinet or with access restricted to technical experts or their assistants.

8 Exposure controls and personal protection

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require

monitoring at the workplace:

ACGIH TLV Austric Copper fume, dusts and mists (as Cu) 1 (dust, mist); 0.2 (fume) 1; 0.1 (fume) 0.2 (fume); 1 (dust)

Austria MAK
Belgium TWA
Denmark TWA
Finland TWA
France VME

Belgium TWA
Denmark TWA
Finland TWA
France VME
Germany MAK
Hungary TWA
Korea TLV
Netherlands MAC-TGG 1 (dust)
Norway TWA
Poland TWA
Russia
Sweden NGV
Switzerland MAK-W
O.2 (fresp. dust)
1-STEL (dust)
0.2 (ffume); 1 (dust); 1; 2-STEL (dust)
0.2; 0.4-STEL (dust)
1 (dust, mist); 0.2 (ffume)
1 (dust, mist); 0.2 (ffume)
0.05; 0.1 (ffume)
0.3-STEL (ffume)
1-STEL (dust)
Sweden NGV
0.2 (resp. dust); 1 (total dust)
Switzerland MAK-W
0.1; 0.2-KZG-W (ffume)
1; 1-KZG-W
United Kingdom TWA
0.2 (ffume)
1; 3-STEL (dusts and mist)
USA PEL TWA
0.1 (ffume); 1 (dusts and mists)
0.1 (ffume); 1 (dusts and mists)

Additional information:

Personal protective equipment General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Use breathing protection with high concentrations. Safety glasses
Tightly sealed safety glasses.
Full face protection
Face protection

Breathing equipment: Eye protection:

Body protection:

Face protection
Protective work clothing.

9 Physical and chemical properties:

General Information	
Form: Colour:	Powder Yellow
Smell:	Light brown Not determined
Change in condition	

Melting point/Melting range: Not determined Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Flash point Not applicable

Inflammability (solid, gaseous) Contact with water liberates extremely flammable gases

Ignition temperature: Not determined **Decomposition temperature:** Not determined

Spontaneously flammable in air. Self-inflammability:

Critical values for explosion: Not determined Upper: Not determined Steam pressure: Not determined Density Not determined

Solubility in / Miscibility with

Water: Contact with water releases flammable gases

10 Stability and reactivity

Thermal decomposition / conditions to be

avoided: Materials to be avoided: No decomposition if used and stored according to specifications. Water/moisture

Air Oxidizing agents

Acids
Contact with water releases flammable gases **Dangerous reactions:**

Dangerous products of decomposition:

Spontaneously flammable in air. Inflammable gases/vapours Carbon monoxide and carbon dioxide

Metal oxide

(Contd. on page 3)

GB

(Contd. of page 2)

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 13.07.2010 Revision: 13.07.2010

Trade name Copper (I) phenylacetylide

11 Toxicological information

on the eve:

Acute toxicity: Primary irritant effect: on the skin:

Corrosive effect on skin and mucous membranes. Irritant for skin and mucous membranes.

Strong corrosive effect.

Sensitization: Additional toxicological information:

No sensitizing effect known. No sensitizing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus

and stomach.

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or

ACGIH.

12 Ecological information:

Additional ecological information: General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Product: Recommendation Consult state, local or national regulations for proper disposal.

Hand over to disposers of hazardous waste.

Must be specially treated under adherence to official regulations.

Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



ADR/RID-GGVS/E Class: Kemler Number: 4.2 (S2) Substances liable to spontaneous combustion.

3088 II UN-Number:

Packaging group: Label

3088 SELF-HEATING SOLID, ORGANIC, N.O.S. (Copper (I) phenylacetylide) LQ0 2

Designation of goods: Limited quantities (LQ) Transport category Tunnel restriction code D/E

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: 4.2 3088 **UN Number:** Label 4.2

Packaging group:
Marine pollutant:
Correct technical name:

.. No SELF-HEATING SOLID, ORGANIC, N.O.S. (Copper (I) phenylacetylide)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 4.2 3088 UN/ID Number: Label 4.2

Packaging group: Correct technical name: SELF-HEATING SOLID, ORGANIC, N.O.S. (Copper (I) phenylacetylide)

UN "Model Regulation":

UN3088, SELF-HEATING SOLID, ORGANIC, N.O.S., 4.2, II

15 Regulatory information

Designation according to EC guidelines: Code letter and hazard designation of

product:





C Corrosive F Highly flammable

Risk phrases: 15 Contact with water liberates extremely flammable gases. 17 Spontaneously flammable in air.

34 Causes burns.

7/8 20 26 33 36/37/39 Safety phrases:

Keep container tightly closed and dry.
When using do not eat or drink.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Take precautionary measures against static discharges.
Wear suitable protective clothing, gloves and eye/face protection.
In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
This material and its container must be disposed of as hazardous waste. 43 45 60

National regulations

Information about limitation of use:

For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. GB

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 13.07.2010 Revision: 13.07.2010

Trade name Copper (I) phenylacetylide

16 Other information:

(Contd. of page 3)

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing data specification sheet:
Contact:
Abbreviations and acronyms:

Health, Safety and Environmental Department.
Zachariah Holt
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO: T: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)

GB

GB

Health, Safety and Environmental Department.
Zachariah Holt
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods Rail)
IMDG: International Amount and International Air Transport Association" (IATA)
INTERNATIONAL PRICE PROPRIES ASSOCIATION
INTERNATIONAL PROPRIES AGREEMENT ASSOCIATION (IATA)
INTERNATIONAL PROPRIES

GB