

Safety Data Sheet according to EC-Regulation 91/155/EEC

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

BrazeTec CoMet 60/40 U

Use of the substance/preparation

Flux-coated brazing rod

Company/undertaking identification

BrazeTec GmbH, Rodenbacher Chaussee 4, D-63457, Hanau-Wolfgang
Telephone +49 (6181) 59-03, Fax +49 (6181) 59-5550

Emergency telephone / Office for advice

Advisory office in case of poisoning:

Tel.:

Telephone number of the company in case of emergencies:

Tel. +49 (0) 69 305-6420

2. Composition/information on ingredients

A:

Core wire

B:

Flux coat

2.1 Chemical name	content %	symbol	R-phrases	CAS	EINECS, ELINCS
B: Tripotassium hexafluoroaluminat	1 - 5	Xn/Xi	36-48/20/22		237-409-0
Copper	50 - 70				231-159-6

A:

For complete wording of the R-phrases, refer to point 16.

3. Hazards identification

3.1 To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

In the event of contact with the hot product:

Danger of burns

3.2 To the environment

See point 12.

4. First aid measures

4.1 Inhalation

During processing:

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

In case of symptoms:

Medical supervision necessary due to possibility of delayed reaction.

4.2 Eye contact

In the event of contact with the hot product:

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.3 Skin contact

In the event of contact with the hot product:
Wash off with cold water.
Do not attempt to remove hardened product.

4.4 Ingestion

Rinse the mouth thoroughly with water.
Give copious water to drink - consult doctor immediately.

4.5 Special resources necessary for first aid

4.1:

On vapour formation:

Dexamethasone

In case of urge to cough - antitussive agents

4.4:

Dissolve effervescent calcium tablets in water and give to drink in small sips.

Gastric lavage

5. Fire-fighting measures

5.1 Suitable extinguishing media

Adapt to the nature and extent of fire.

If applicable

Metal fire extinguisher

5.2 Extinguishing media which must not be used for safety reasons

n.g.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Fume

Irritating gases

Copper oxides

Zinc oxide

Hydrofluoric acid

Fluorides

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

No special measures required.

6.2 Environmental measures

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods for cleaning up

Collect mechanically and dispose of according to point 13.

Allow the hot product to solidify.

7. Handling and storage

7.1 Handling

Tips for safe handling:

See point 6.1

Ensure good ventilation.

Do not inhale dust/fume/mist.

General hygiene measures for the handling of chemicals are applicable.

3 / 6 EN

Revision: 21.02.2002 Replaces the version of: 23.11.2001 Printing date: 08.09.2004

BrazeTec CoMet 60/40 U

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Wash hands before breaks and at end of work.

Observe directions on label and instructions for use.

During processing:

Suction measures at the workplace or on the processing machines required.

Switch on available suction system.

7.2. Storage

Requirements for storage rooms and containers:

Store products only unopened, in original packing.

Not to be stored in gangways or stair wells.

Special storage conditions:

See point 10.2

Store in a dry place.

8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Chemical name	content %	OES, MEL, MAK, TRK	BMGV, BAT
A: Copper	50 - 70	1 mg/m ³	
Zinc oxide, fume		5 mg/m ³	
B: Fluorides (as F)		2,5 mg/m ³ (EC)	4,0(7,0) mg Fluorid/g Kreatinin
Hydrogen fluoride		1,8 ppm (1,5 mg/m ³) (EC)	4,0(7,0) mg Fluorid/g Kreatinin

8.1 Respiratory protection:

Normally not necessary.

During processing:

Filter B E P3 EN 141

8.2 Hand protection:

Normally not necessary.

Protective hand cream recommended.

During processing:

Leather gloves

8.3 Eye protection:

Normally not necessary.

During processing:

Tight fitting protective goggles with side protection (EN 166).

8.4 Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

9. Physical and chemical properties

Physical state:

Solid

Colour:

BrazeTec-Standard white, otherwise according to specifications

Odour:

Odourless

Boiling point / range (°C):

n.v.

Melting point / range (°C):

675 - 810 , Core wire

4 / 6 EN

Revision: 21.02.2002 Replaces the version of: 23.11.2001 Printing date: 08.09.2004

BrazeTec CoMet 60/40 U

Flash point (°C):	n.g.
Flammability (solid/gas):	n.g.
Autoflammability:	n.g.
Vapour pressure:	n.g.
Relative density (g/ml):	8,7 - 9,1 g/cm ³ , Core wire
Bulk density:	n.g.
Solubility in water:	partially , Soluble

10. Stability and reactivity

10.1 Conditions to avoid

See point 7

Stable when handled and stored correctly.

Strong heat

10.2 Materials to avoid

See point 7

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

Sulphuric acid

10.3 Hazardous decomposition products

See point 5.3

Heating:

Hydrogen fluoride formation possible.

10.4 Additional information

Stabilizers necessary:

k.D.v.

Stabilizers available:

k.D.v.

11. Toxicological information

11.1 Acute toxicity and immediate effects

11.1.1 Ingestion, LD50 rat oral (mg/kg):	n.v.
11.1.2 Inhalation, LC50 rat inhal.(mg/l/4h):	n.v.
11.1.3 Skin contact, LD50 rat dermal (mg/kg):	n.v.
11.1.4 Eye contact:	n.v.

11.2 Delayed and chronic effects

11.2.1 Sensitization:	n.g.
11.2.2 Carcinogenicity:	n.g.
11.2.3 Mutagenicity:	n.g.
11.2.4 Reproductive toxicity:	n.g.
11.2.5 Narcosis:	n.g.

11.3. Further information

No classification according to calculation procedure.

The following may occur:

Irritant effect to damaged skin.

Hazardous gasses are set free when processing product

Hydrofluoric acid formation possible.

On vapour formation:

Oedema of the lungs

Irritant to mucosa of the nose and throat.

12. Ecological information

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.v.
Behaviour in sewage plants:	Precipitate fluoride with milk of lime and dispose of.
Precipitate borate with milk of lime and dispose of.	
Aquatic toxicity:	Nenän- ja kurkunlimakalvojen ärsytystä
Toxicity to fish:	
Ecological toxicity:	k.D.v.

13. Disposal considerations

13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

12 01 99 - wastes not otherwise specified

12 01 04 - non-ferrous metal dust and particles

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

Implement substance recycling.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

14. Transport information

General statements

UN-Number: n.a.

Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

Transport by sea

IMDG-code: n.a. (class/packing-group)

EmS: n.a.

Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing-group)

Additional information:

Non-dangerous material according to Transport Regulations.

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Not applicable

Indications of danger: ---

R-phrases:

S-phrases:

Additions:

Safety data sheet available for professional user on request.

Observe restrictions: n.a.

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 11/13

Revised points: 15

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2):

36 Irritating to eyes.

48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

Legend:

6 / 6 EN

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n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked / OES = Occupational exposure standard
MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value / MAK = Maximum concentration for work place (Germany)
(Germany) / TRK = Technical guidance concentration (Germany) / BAT = Biological tolerance for work place (Germany)
VbF = Regulations for flammable liquids (Germany) / TRbF = Technical regulations for flammable liquids (Germany)
WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water
VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds
VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: 01805-CHEMICAL / 01805-243 642, Fax: 05233-941790

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