

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

Identification of the substance or preparation

Castolin 14 F

Use of the substance/preparation

brazing rod, brazing wire

Company/undertaking identification

Responsible for the safety data sheet: sds@gbk-ingelheim.de

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2. Hazards identification

Classification

Indications of danger : Harmful

R-phrases :

Harmful if swallowed.

Contact with acids liberates toxic gas.

Brazing/welding vapours and fumes from brazing/welding may cause metal fumes fever. Symptoms can appear 4 to 12 hours after. (headache, dizziness, dryness, cough, nausea and fever)

May cause irritation by prolonged inhalation of brazing/welding fumes.

Explication of special hazards for human health and environment

Welding and brazing processes can cause spatter, melting metal and UV/IR heat can cause burns or start fires.

During welding- and brazing processes formed metallic fumes are suspected of being cancer causing agents.

3. Composition/information on ingredients

Chemical characterization (preparation)

Mixture of the following substances with non-hazardous admixtures

Hazardous components

EC-No.	CAS-No.	Components	Quantity	Classification
231-667-8	7681-49-4	Sodium fluoride	10-50 %	T, Xi R25-36/38-32

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

After inhalation

Take affected person into fresh air.

Consult a physician if necessary.

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After contact with skin

In case of contact with skin wash off immediately with plenty of water.
Consult a physician if necessary.

After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

As soon as possible, take phials of calcium chloride and seek hospital.

5. Fire-fighting measures

Suitable extinguishing media

Product itself does not burn.
Use fire fighting measures that suit the environment and products stored

Special protective equipment for fire-fighters

In case of fire, wear suitable respiratory equipment with positive air supply.

6. Accidental release measures

Personal precautions

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

Environmental precautions

Do not discharge into the drains or bodies of water.

Methods for cleaning up/taking up

Shovel into suitable container for disposal.

7. Handling and storage

Handling

Advice on safe handling

Avoid contact with eyes, skin or mucous membrane.
Do not breathe vapours/dust.
Use only in well-ventilated areas.
ANSI Z49.1 Safety in Welding, Cutting and allied processes.

Further information on handling

When using, do not eat, drink or smoke.

Storage

Requirements for storage rooms and vessels

Keep container dry and tightly closed.

Storageclass (VCI)

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8. Exposure controls/personal protection



Exposure limit values

Occupational exposure limits

CAS No.	Substance	ml/m ³	mg/m ³	f/ml	Category	Origin
7440-44-0	Graphite, total inhalable dust	-	10		TWA (8 h)	
	Graphite, total inhalable dust	-	-		STEL (15 min)	
7440-21-3	Silicon Si, total inhalable dust	-	10		TWA (8 h)	
	Silicon Si, total inhalable dust	-	-		STEL (15 min)	

Exposure controls

Occupational exposure controls

Provide appropriate exhaust ventilation at machinery and at places where dust or smoke can be generated.

Protective and hygiene measures

At work do not eat, drink and smoke.

Wash hands and skin before breaks and after work.

Respiratory protection

Use suitable breathing apparatus if there is inadequate ventilation.

Hand protection

Use protective gloves for welders (DIN 4841-4).

Use inner-gloves to prevent from allergic reactions due to direct skin contact.

Protective gloves resistant to chemicals made off polychloropren, Minimum coat thickness 0.6 mm,

Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camapren 722> made by www.kcl.de.

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.

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

Eye protection

Safety goggles with side protection

Skin protection

Dust resistant protective clothing.

9. Physical and chemical properties

General information

Physical state Solid

Colour

Odour Odourless

Important health, safety and environmental information

Test method

pH-Value (at 20 °C) :

n.a.

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Changes in the physical state

Boiling point	n.a.
Flash point	n.a.
Water solubility : at (20 °C)	Soluble

10. Stability and reactivity

Conditions to avoid

Hydrogen fluoride is liberated on heating at high temperatures in the presence of water vapor.

Materials to avoid

Contact with strong acids liberates hydrogen fluoride.

Hazardous decomposition products

Metallic oxides

11. Toxicological information

Acute toxicity

Brazing/welding vapours and fumes from brazing/welding may cause metal fumes fever. Symptoms can appear 4 to 12 hours after. (headache, dizziness, dryness, cough, nausea and fever)

Risk of fluorose

Corrosive and irritant effects

May cause irritation by prolonged inhalation of brazing/welding fumes.

Further information

The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

12. Ecological information

Ecotoxicity

No data available.

LC50 (96) Fish: > 100 mg/l (NaF)

Further information

Product is not allowed to discharge into the ground water or aquatic environment.

Slightly water hazardous.

13. Disposal considerations

Advice on disposal

It is not possible to give this product a waste code number according to the European waste catalogue because only the intended use of the user consents the assignment of a specific code number. The waste code number must be agreed with the disposer / manufacturer / competent authority.

Where possible recycling is preferred to disposal.

Dust and in exhaust systems separated particles dispose of in compliance with local regulations.

Waste disposal number of waste from residues/unused products

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160507 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded inorganic chemicals consisting of or containing dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

14. Transport information

Land transport (ADR/RID)

Inland waterways transport

Marine transport

Air transport

Further Information

No hazardous material as defined by the transport regulations.

15. Regulatory information

Labelling

As an article the product does not need to be labelled in accordance with EC-directives or respective national laws.

Although this product does not require a hazard warning label, we recommend that the safety advice should be observed.



Indication of danger

Xn - Harmful

Hazardous component(s) to be indicated on label

Sodium fluoride

R phrases

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.

S phrases

- 23 Do not breathe fumes and aerosols .
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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- 51 Use only in well-ventilated areas.
36/37 Wear suitable protective clothing and gloves.

National regulatory information

Water contaminating class 1 - slightly water contaminating
1999/13/EC (VOC) 0 %

16. Other information

Full text of R-phrases referred to under sections 2 and 3

- 22 Harmful if swallowed.
25 Toxic if swallowed.
31 Contact with acids liberates toxic gas.
32 Contact with acids liberates very toxic gas.
36/38 Irritating to eyes and skin.

Other data

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.

Literature:
