

EC-Material Safety Data Sheet

For chemical substances and preparations according
1907/2006/EG, Article 31

Issue of: 29.07.2009

last revision: 29.07.2009



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

Product details

Trade name: BINZEL BTC-15 Special Cooling Agent
Application of the substance/the preparation: Protective welding agent

Manufacturer/Supplier: Alexander Binzel Schweißtechnik GmbH & Co. KG
Postfach 10 03 62 / D- 35333 Gießen
+ 49 (0) 6408/59-0
Phone: + 49 (0) 6408/59-0
Respondet Person: Material Safety Data Sheets Mrs. Tina Schmatloch
Phone: + 49 (0) 6408/59-0
e-Mail: schmatloch@binzel-abicor.com

Information in case of Emergency: National advisory board for symptoms of intoxication Berlin
Phone: + 49 (0) 3019240
Telefax: + 49 (0) 3030686721

2. Hazards identification

Hazard description: Xi Irritant.
Information concerning particular hazards for human and environment: Induces narcotic effect. The vapours of the product are heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefor keep away from fire and sources of ignition.

R10 Flammable
R36 Irritating to eyes
R67 Vapours may cause drowsiness and dizziness

Classification system: This product requires labeling according to the analyses of the „General rating Principles for preparations of the EC“ in the most recent version.

3. Composition/information on ingredients

Chemical Characterisation: Mixture of the following substances with nonhazardous additives.

Hazardous ingredients

CAS-No. Identification: 67-63-0, Isopropylalkohol
Identification No./No.´s:
EINECS-Number: 200-661-7



R11, 36, 67 10-25%


CAS-No. Identification: 107-21-1, Monoethylenglykol
Identification No./No.´s:
EINECS-Number: 203-473-3



R22 2,5-10%

4. First aid measures (Symptoms)

General advice: Clothing contaminated with product has to be removed immediately.
Inhalation: Provide fresh air, consult physician in case of disorders. In case of loos of consciousness, place and transport affected person in the recovery position.
Skin contact: Wash with plenty of water.
Eye contact: Rinse eyes for several minutes with flowing water holding eyelids apart and consult physician.

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After swallowing: Rinse mouth and drink plenty of water. Do NOT cause vomiting – risk of aspiration! Consult physician immediately.

Information for physician

Hazards: In case of ingestion followed by swallowing an aspiration of the lung could occur, what could lead to chemical pneumonia or suffocation.

5. Fire-fighting measures

Suitable extinguishing media: Carbon dioxide (CO₂), extinguishing powder or water spray jet. Fight larger fire with water spray jet or alcohol resistant foam.

Extinguishing media which must not be used for safety reasons: None.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Can form explosive vapour-air mixtures. Because of the high vapour pressure risk of burst danger of the cans in case of temperature increase. Carbon monoxide (CO) and carbon dioxide (CO₂).

Special protective equipment: Wear a self-contained breathing apparatus.

Additional information: Cool endangered containers with water spray jet. Fire residua and contaminated fire extinguishing water have to be disposed off according to the official regulations. If without risk, remove containers from the danger area.

6. Accidental release measures

Person-related safety precautions: Provide adequate ventilation. When exposed to fumes/dust/aerosol use respirator. Avoid skin and eye contact. Keep away from sources of ignition. Wear protection equipment. Keep unprotected people away.

Measures for environmental protection: Do not allow to enter groundwater, natural waters or canalisation. Condense gases/vapors/mists with water spray jet.

Measures for cleaning/collecting: Provide adequate ventilation. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents, sawdust). Recycle or dispose of in appropriate containers. Treat the recovered material as prescribed in the section on waste disposal.

Additional information: Information about disposal see chapter 13.

7. Handling and storage

Handling

Information for safety handling: Ensure good ventilation/aspiration at the workplace. Ensure good ventilation also on the floor (vapors are heavier than air). Do not inhale vapours/aerosol. Avoid skin and eye contact. Observe the occupational exposure limit value/s (AGW) and/or other limits. Avoid spilling or spraying in closed rooms.

Information about fire- and explosion protection:

Vapors can form an explosive air mixture. Ignitable mixtures can be formed in emptied containers. Keep away sources of ignition – No smoking. Take measures against electrostatic charges. Protect from heat and direct sunlight. Do not spray on flames or glowing objects. Emergency cooling should be provided in the case of surrounding fire. Use explosion proof equipment/fittings and spark-free tools. Use only outdoors or in explosion-proof areas. Hold breathing apparatus ready.

Storage

Requirements to be met by storerooms

and receptacles:

Hits on storage assembly:


Observe water legislations. Observe regulations for the storage of flammable liquids.. Observe the regulations for the storage of flammable liquids. Store separated from food, drink and feeding stuff.

Further information about storage conditions:

Store container in a well-ventilated area. Keep container tightly closed. Store cool, heating leads to pressure increases and burst danger. Store under lock and out of the reach of children.

Storage class

Classification as per German Health and Safety at Work Regulations (BetrSichV): -

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8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

67-63-0 Isopropylalkohol
AGW (Germany): 500 mg/m³, 2000 ml/m³
2 (II); DFG; Y

107-21-1 Monoethylenglykol
AGW (Deutschland): 26 mg/m³, 10 ml/m³
2 (I); DFG; H; Y

IOELV (European Union): Short-term value: 104 mg/m³, 40ml/m³
Long-term value: 52 mg/m³, 20 ml/m³
skin

Additional Information Based on the lists valid during the creation.

Personal protective equipment
General protective and hygienic measures:

Keep away from food, drink and animals feedingstuff. Take off contaminated, soaked clothing immediately. Do not eat, drink, smoke or snort while working. Do not inhale gases/vapours/aerosols. A void eye and skin contact. Wash hands before the breks and after work. Use skin protection cream for preventive skin care.

Respiratory protection: Normally no special measures needed if the workplace limit value/s (AGW) and other limit values are observed permanently and reliably.

Recommended filter device for short-term use:

Gas mask according to EN 14387 type A (organic gases/vapors, boiling point > 65°C/149°F) – Code Colour brown. For details on the using conditions and maximum using concentrations look at the "Rules for the use of respiratory protective devices" (BGR 190).

Protection of hands:

Impermeable gloves. Selection of the glove material on consideration of the breakthrough times, permeation rate and degradation. The material of the gloves has to be impermeable and resistant against the product/the substance/the composition. Before any further use of the glove the density has to be tested. To avoid skin problems the wearing of gloves has to be reduced to the extent necessary. Due to a lack of testing there can be no recommendation made to the glove material for the product/preparation/the chemical mixture.

Material of gloves:

The selection of a suitable glove does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material is not calculable in advance and must therefore be tested before use.

Penetration time of glove material:

The exact point of penetration has to be found out by the manufacturer of the protection gloves and has to be observed.

Eye protection:

Tightly sealed safety goggles.

Body protection:

Protective clothing. Body protectors have to be selected depending on activity and possible exposure.


9. Physical and chemical properties

General Information

Form: fluid
Colour: colorless
Odour: characteristically

Change in physical state

Melting point/range: not determined
Boiling point/range: ~ 80°C / 176°F
Flash point: 23 – 55°C / 73,4 – 131°F
Ignition temperature: 410°C / 770°F
Self-Ignition: The product is not spontaneously inflammable..
Explosion risk: The product is not explosive, however, formation of explosive/ignitable vapour-/air mixtures possible.

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Explosion limits

Upper: 2,0 Vol. %
Lower: 12,0 Vol. %

Vapour pressure at 20°C/68°F: ~ 50h Pa
Density at 20°C/68°F: 0,9 – 1,1 g/cm³

Solubility in/miscibility with water: Completely miscible.

10. Stability and reactivity

Thermal decomposition products: Avoid shock, friction, heat, sparks, static electricity.
Conditions to avoid: Strong oxidizers.
Dangerous reactions: Formation of explosive vapour-air mixture possible. Uncleaned empty trusses could contain product gases which form explosive air mixtures. Because of the high vapour pressure risk of burst danger of the cans at temperature rise.
Hazardous decomposition products: Carbon monoxide (CO) and carbon dioxide (CO²).

11. Toxicological information

Acute toxicity

Primary irritant effect: **on the skin:** Prolonged and/or repeated skin contact may lead to irritation.
on the eye: Irritation.

Sensitization: No sensitizing effects known.

Additional toxicological information: Due to the calculation procedure of the general classification guideline for preparations of the EC in the latest version the product has the following hazards: Irritant. Inhalation of concentrated fumes can cause narcosis similar conditions and lead to headaches, dizziness, etc.

12. Ecological information

General notes: The product is readily biodegradable.
Water hazard class 1 (Self classification): weakly water-endangering
Do not allow undiluted product or large quantities to enter ground water, natural waters, or canalization.

13. Disposal considerations

Product

Recommendation: Disposal according to local, official regulations.

European waste catalogue: The assignment of waste code numbers after the SAB has to be made industry and process specific.

Uncleaned packing

Recommendation: Disposal according to official regulations.


14. Transport information

Landtransport ADR/RID and GGVS/GGVE (transnational/inland)

ADR/RID-GGVS/E Class: 3
Classification code: F1
Kemler-Code: 30
UN-Number: UN 1993
Packing group: III
Hazard label: 3
Description of the good: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL) Special provision 640E
Limited Quantity (LQ): LQ7
Transport category: 3
Code of restriction of tunnel: D/E

Maritime transport IMDG/GGVSee

IMDG/GGVSee-Class: 3
UN-Number: UN 1993
Label: 3
Packing Group: III
EMS-Number: F-E, S-D
Marine pollutant: No

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Real technical name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)

Air transport ICAO-TI and IATA-DGR

ICAO/IATA-Class: 3

UN/ID-Number: UN 1993

Label: 3

Packing Group: III

Real technical name: FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)

15. Regulatory information

Labelling according to EU guidelines

The product is classified and labelled according to EC-Guidelines and respective national laws.

R-phrases: R10 Flammable.

S-Sätze: S2 Keep out of the reach of children.
S16 Keep away from sources of ignition – No smoking.

National regulations

Restrictions of occupation: Observe employment restrictions for young people according to §22 JArbSchG!

Statutory order on

hazardous incident: The concentration limits according to the statutory order on hazardous incidents have to be observed.

Classification according Betriebs-sicherheits-

verordnung (BetrSichV): Flammable.

Water Hazard Class: WGK 1 (Self classification): weakly water-endangering

Other advices:

BGV A 5: Rule for the prevention of accidents „First assistance“
A 008: „Personal protection equipment“
ZH 1/566 „Data sheet for explosion protection measures at solvent cleaning equipment“
BGR 180 „Dealing with solvents“ (former ZH 1/562)
BGR 189 „Use of protective clothing“ (former ZH 1/105)
BGR 190 „use of respiratory protective devices“ (former ZH 1/134)
BGR 192 „Use of eye and face protection“ (previous ZH 1/703)
BGR 197 „Use of skin protection“ (previous ZH 1/708)

BG-Data Sheet:

BGI 536 „Dangerous chemical materials“ (formerly M 051)

BGI 595 „Irritant substances / corrosive substances“ (formerly M 004)

BGI 621 „Solvents“ (formerly M 017)

BGI 623 „Fill over from liquids“


BGI 660 „General Labor protection measures for the handling of hazardous substances“ (formerly

16. Other informations

The information is based on the present state of our knowledge, however, they do not provide an assurance of product features and do not constitute a contractual legal relationship.

Relevant R-phrases: This (r) R-phrase/s is / are valid only for the ingredient (s) and give NOT the classification of the preparation. Labeling of the product see chapter 15.

R11 Highly flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

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