

SECTION 1: Identification of the substance/mixture and of the company/undertaking

PRODUCT INFORMATION:

1.1 PRODUCT IDENTIFIER: CERAMIC SPRAY, ABI-SHIELD CERAMIC PROTECTIVE SPRAY Part Numbers 192.0228.1, 192.0228.12
TRADE NAMES: Ceramic Spray, Ceramic Protective Spray, Protective Ceramic Coating Spray
1.2 INTENDED USE OF PRODUCT: Industrial Use Only - Protective Coating for Tips & Nozzles of MIG Welding Torches.

1.3 COMPANY DETAILS:

Manufacturer/Supplier: Alexander Binzel Schweißtechnik GmbH & Co. KG
 Postfach 10 01 53 / D- 35331 Gießen, Germany Phone: + 49 (0) 6408/59-0
 Contact for information: Technical documentation Phone: + 49 (0) 6408/59-0 technischedokumentation@binzel-abicor.com

DISTRIBUTION USA & CANADA: ABICOR BINZEL

650 Medimmune Court Suite 110 Frederick, MD 21703
 Information: Phone 301-542-4867 Website: <http://binzel-abicor.com/US/eng/home/>

1.4 EMERGENCY TELEPHONE NUMBERS:

USA: Poison Control Center - Phone Number 1-800-222-1222
Canada: CANUTEC (CALL COLLECT) (613) 996-6666
Germany: Emergency poison control centre Mainz - 24-hour hotline Phone: +49 (0) 6131 19240

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No. 1272/2008 (CLP)
- GHS Classification in accordance with 29 CFR 1910.1200 OSHA Hazard Communication Standard
- Aerosol 1, H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- Eye Irritant 2, H319 Causes serious eye irritation.
- STOT SE 3, H336 May cause drowsiness or dizziness.
- 2.2 Label elements
- Labelling according to Regulation (EC) No.1272/2008 and CLP regulation.
- GHS labelling according to 29 CFR 1910.1200 OSHA Hazard Communication Standard
- Hazard pictograms:



- Signal word Danger
- Hazard-determining components of labelling: acetone
- Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
- Precautionary statements P103 Read label before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information: Buildup of explosive mixtures possible without sufficient ventilation.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:			
CAS: 67-64-1 EINECS: 200-662-2	acetone	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	50-100%
CAS: 78-93-3 EINECS: 201-159-0	butanone	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	12.5-25%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Do not leave affected persons unattended.
Personal protection for the First Aider.
Take affected persons out of danger area and lay down.
- **After inhalation:** Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Protect unharmed eye.
If symptoms persist consult doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
ABC powder
Use fire extinguishing methods suitable to surrounding conditions.
Alcohol resistant foam
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Use only in well ventilated areas.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.
Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Protect from frost.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Storage class:** 2 B

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- 7.3 Specific end use(s)

No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:

No further data; see item 7.

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

67-64-1 acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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78-93-3 butanone

WEL	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
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- Ingredients with biological limit values:

78-93-3 butanone

BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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- Additional information:

The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.

- Respiratory protection:

- Protection of hands:



Protective gloves

Only use chemical protective gloves made of material suitable for this product, the use of this product, and any associated materials.
The glove material has to be impermeable and resistant to the preparation and use of this product.

-Material of gloves

No recommendation on suitable gloves can be given as it not only depends on the glove material, but also the quality of the glove material which varies from manufacturer to manufacturer.
Recommended material is synthetic rubber gloves.
Recommended glove thickness; greater than 16 mils.

-Penetration time of glove material

The manufacturer of the glove should be able to provide information to which chemicals their gloves are resistant to, and for what duration.
Test need to be performed based on the length of time this product and any associated materials will or could make contact with the gloves and cause the gloves to have penetration/break through.
These test need to be used to qualify penetration/break through times, based on diffusion and the degradation of the protective gloves for the duration and also the manner in which the protective gloves are used.
Because of various factors including but not limited to; this product's ingredient percentage variables during manufacture, practical conditions during testing; the lowest time achieved during the test needs to be reduced by 50% however can't be higher than the manufacturer's stated recommendations.

- Eye protection:



Tightly sealed goggles

- Body protection:

Protective work clothing
Impervious protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Aerosol

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Colour:	White
- Odour:	Characteristic
- Odour threshold:	Not determined.
- pH-value:	Not determined.
- Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.*
- Flash point:	Not applicable, as aerosol.*
- Flammability (solid, gaseous):	Not applicable.
- Ignition temperature:	365 °C
- Decomposition temperature:	Not determined.
- Self-igniting:	Product is not selfigniting.
- Danger of explosion:	Not determined.
- Explosion limits:	
Lower:	1.5 Vol %
Upper:	13.0 Vol %
- Density at 20 °C:	0.73 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.
- Evaporation rate	Not applicable.
- Solubility in / Miscibility with water:	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water):	Not determined.
- Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
- 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values relevant for classification:

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)

78-93-3 butanone

Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)
Inhalative	LC50/4 h	40 mg/l (mouse) 34.5 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- Aspiration hazard

Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

67-64-1 acetone

IC50	20,000 mg/l (rabbit)
LC50/96 h	7500 mg/l (Leuciscus idus (Aland))
	5540 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
EC50	> 100 mg/l (daphnia)
LC 50	20,000 mg/l (rabbit)
LC50	12600 mg/l (daphnia)
NOEC	1700 mg/l (Pseudomonas putida)
NOEC	4740 mg/l (Pseudokirchneriella subcapitata)

78-93-3 butanone

LC50/96 h	>3000 mg/l (fish)
EC50	1382 mg/l (daphnia)

- 12.2 Persistence and degradability

No further relevant information available.

- 12.3 Bioaccumulative potential

No further relevant information available.

- 12.4 Mobility in soil

No further relevant information available.

- Additional ecological information:

- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment

- PBT:

Not applicable.

- vPvB:

Not applicable.

- 12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

- Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number

- ADR, IMDG, IATA

UN1950

- 14.2 UN proper shipping name

- ADR

1950 AEROSOLS

- IMDG

AEROSOLS

- IATA

AEROSOLS, flammable

- 14.3 Transport hazard class(es)

- ADR



- Class

2 5F Gases.

- Label

2.1

- IMDG, IATA



- Class

2.1

- Label

2.1

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<ul style="list-style-type: none"> - 14.4 Packing group - ADR, IMDG, IATA 	<p>Void</p>
<ul style="list-style-type: none"> - 14.5 Environmental hazards: 	<p>Not applicable.</p>
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Danger code (Kemler): - EMS Number: - Stowage Code - Segregation Code 	<p>Warning: Gases.</p> <p>-</p> <p>F-D,S-U</p> <p>SW1 Protected from sources of heat.</p> <p>SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p> <p>SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>
<ul style="list-style-type: none"> - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> - Transport/Additional information: 	
<ul style="list-style-type: none"> - ADR - Limited quantities (LQ) - Excepted quantities (EQ) - Transport category - Tunnel restriction code 	<p>1L</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p> <p>2</p> <p>D</p>
<ul style="list-style-type: none"> - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 	<p>1L</p> <p>Code: E0</p> <p>Not permitted as Excepted Quantity</p>
<ul style="list-style-type: none"> - UN "Model Regulation": 	<p>UN 1950 AEROSOLS, 2.1</p>

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - Named dangerous substances - ANNEX I
 - Seveso category
 - Qualifying quantity (tonnes) for the application of lower-tier requirements
 - Qualifying quantity (tonnes) for the application of upper-tier requirements
 - 15.2 Chemical safety assessment:
- | | |
|--|---|
| <ul style="list-style-type: none"> None of the ingredients is listed. P3b FLAMMABLE AEROSOLS | <ul style="list-style-type: none"> 5,000 t 50,000 t A Chemical Safety Assessment has not been carried out. |
|--|---|

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
 - Department issuing SDS:
 - Contact:
 - Abbreviations and acronyms:
 - Sources
- | | |
|--|--|
| <ul style="list-style-type: none"> research & development research & development | <p>H225 Highly flammable liquid and vapour.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</p> <p>IMDG: International Maritime Code for Dangerous Goods</p> <p>IATA: International Air Transport Association</p> <p>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</p> <p>EINECS: European Inventory of Existing Commercial Chemical Substances</p> <p>ELINCS: European List of Notified Chemical Substances</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society)</p> <p>LC50: Lethal concentration, 50 percent</p> <p>LD50: Lethal dose, 50 percent</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>vPvB: very Persistent and very Bioaccumulative</p> <p>Aerosol 1: Aerosols – Category 1</p> <p>Flam. Liq. 2: Flammable liquids – Category 2</p> <p>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</p> <p>STOT SE 3: Specific target organ toxicity (single exposure) – Category 3</p> <p>Internet:</p> <ul style="list-style-type: none"> - www.echa.com - www.baua.de - www.gestis.itrust.de (IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance) |
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**SAFETY DATA SHEET
CERAMIC SPRAY**

Trade name: **Ceramic spray**

- * Data compared to the previous version altered.

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