

TECHNICAL DATA SHEET

Revision date: 28.09.2023

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DuraBlack

SECTION 1: Product Description, Applications, Supplier

Product Description

Anodised aluminum

Applications

DuraBlack is an laser markable aluminum.

Details of the supplier of the technical data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ECKART SIGNPLASTICS GMBH
Technologiepark 10-12
91522 Ansbach
Germany
phone: +49 (0) 981 / 48 75 5-0
fax: +49 (0) 981 / 48 75 5-22
e-Mail: info@eckartgmbh.de
website: www.eckartgmbh.de

SECTION 2: Hazards identification

Material is not hazardous under normal conditions.

SECTION 3: Composition / information on ingredients

Individual components of this product do not contribute to any known hazard.

SVHC-substances are not contained or are below 0.1%.

SECTION 4: First aid measures

Inhalation: At high temperature products of thermal decomposition can be irritating to respiratory system. Remove person into fresh air.

Skin contact: Contact with the product when handled at high temperatures can cause serious burns. Cool with cold water. If skin irritation persists, consult a doctor.

TECHNICAL DATA SHEET

Revision date: 28.09.2023

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Eye contact: Wash with clean water for 15 minutes holding the eyelids open. If eye irritation persists, consult a doctor.

Ingestion: not applicable

SECTION 5: Fire Fighting Measures

Fire and explosive properties

Flash point: none

Explosion data: not applicable

Special hazards: Material as sold is non-combustible. In case of fire may produce toxic fumes.

Suitable extinguishing media recommended:

Use that of surrounding fire.

Protective equipment: Use self-contained breathing equipment independent from circulating air and protective clothes.

Particular risks arising from product/products of combustion/generated gases:

When burned the following substances can be formed:

Metal oxides, Carbon monoxide, Carbon.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment.

Environmental precautions

No special measures necessary.

Methods and material for containment and cleaning up

Retrieve mechanically.

Reference to other sections

none

SECTION 7: Handling and Storage

Handling

During laser marking small quantities of formaldehyde have been detected. Operator exposure was found to be below the 0.5 ppm OSHA action level during normal laser operation. We recommend that during the marking operation an adequate exhaust system, together with an organic vapor filter, be used to reduce the level of the resulting emissions. No smoking, eating or drinking in areas of use.

TECHNICAL DATA SHEET

Revision date: 28.09.2023

Print date: 28.09.2023



Storage

Store away from areas of high temperature, preferably between 20°-26°C (68-80°F).

Do not store together with acids and alkalies. Store in a dry place.

SECTION 8: Exposure Control / Personal Protection

Ensure that there is adequate ventilation and use personal protective equipment.

Eye protection: protective goggles (EN 166)

Hand protection: protective gloves

Skin protection: protective clothes

Respiratory protection: in the case of thermal processing filter apparatus or combination filter A-P2 (DIN EN 14387)

Other: Avoid contact with eyes and skin. Avoid breathing dust.

SECTION 9: Physical and Chemical Properties

Form: solid metal sheet

Colour: black

Odour: none

Density: > 1

Flammability: not highly flammable

Temperature range: -40°C to +350°C

Autoignition temperature: not self-igniting

Vapour pressure: not applicable

Water solubility: not soluble

SECTION 10: Stability and Reactivity

Massive metal is stable and none reactive under normal conditions of use, storage and transport.

Dusts can form an explosive mixture with air. Avoid contact with strong acids and alkalies.

SECTION 11: Toxicological information

No information available.

TECHNICAL DATA SHEET

Revision date: 28.09.2023

Print date: 28.09.2023



SECTION 12: Ecological Information

No information available.

SECTION 13: Disposal Considerations

Product

Aluminum sheets may be recycled. Disposal in an incineration plant in accordance with the regulations of the local authorities.

WasteNo. 060499
170402

Contaminated packaging

WasteNo. 150102
150101

SECTION 14: Transport Information

No subject to regulation.

SECTION 15: Other information

The above state information is based on the present state of knowledge and experience. The data sheet describes products in respect of safety requirements. This information cannot be considered as a quality or product warranty. The product is suitable only for the above mentioned standard usage parameters. The manufacturer declines any responsibility in case of improper use of the product when the product is exposed to stresses exceeding the values stated herein.