

BLUE AWAY

TECHNICAL DATA SHEET

Blueaway has been used in Europe for years to remove heat-caused "bluing" from chrome and stainless steel, such as chromed exhaust pipes on cycles, discoloration from welding stainless, etc.

Now, Blueaway has been found to be a very effective cleaner for molds using epoxy, hysol and phenolic compounds. Experiments have been made on D-2 tool steel molds hardened to RC 58-60. These molds, after running production, tend to build up wax and compound. Polishing was done by mounted bristle brushes, and in extreme cases, mounted brass brushes using Falcon or Dumore type flexible shaft polishing heads. Polishing was done while molds were hot or cold, both methods being equally effective.

Blueaway is dabbed directly into all cavities. Then, in combination with mounted brushes and isopropyl alcohol as a wetting agent it is used to polish the mold. Isopropyl alcohol, again, is used to dissolve the Blueaway and finally as the agent used when pouring alcohol over the entire mold, when blowing off and drying it with air blast.

Upon completion of this process a clean mounted bristle brush is used to remove all alcohol residue.

This unique cleaner contains no cyanide or toxic chemicals. Its shelf life has been found to exceed 5 years.

Composition:

- Alumina
- Water
- Kerosene
- Emulsifiers
- Oxalic Acid
- Phosphoric Acid

Shelf life: About 5 years, stored cool and dry

Skin irritation: Mild

Eye irritation: Slight causticization (Rinse with water for both skin and eye contamination)

Blueaway contains petroleum distillates. It may be harmful if swallowed. If swallowed, do not induce vomiting. Call physician immediately. Keep out of reach of children.

SAFETY DATA SHEET in accordance with 2001 / 58 / EC

Trade name: **Blue Away**

Issued: July 14, 2010

Revision: 02

Competition Chemicals Inc

P.O. Box 820

Iowa Falls, IA 50126

641-648-5122

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1 Identification of the preparation and company

Product details

Trade name: **Blue Away**

Use: Removal of heat-caused blue discoloration from chrome, stainless, precision metals

Supplier: Happich Fahrzeug- und Industrieteile GmbH
Konsumstr. 45
D-42285 Wuppertal

Emergency telephone number of the company: 641-648-5121

2 Composition / Information on ingredients

Chemical characterization

Polish based on aluminum oxide, dispersed in water/solvent emulsion.

Hazardous ingredients:

EINECS	CAS-No.	Component	wt. %	Symbol	R-Phrases
265-149-8	64742-47-8	Kerosene	20 - 30	Xn	65-66
205-634-3	6153-56-6	Oxalic acid	1 - < 5	Xn	21/22
Polymer	68213-23-0	Fatty alcohol, ethoxylated	1 - < 5	Xn	22-41

Remarks: The classification of a product would be indicated under section 15.
Wording of R-phrases see section 16

3 Hazards identification

Hazard designation:

Information pertaining to particular dangers for man and environment:

4 First aid measures

General information:

Inhalation: Fresh air and keep at rest until symptoms resolve. If pain persists, get medical attention.

Skin contact: Wash off with plenty of water and soap.

Eye contact: Immediately flush eyes with plenty of water with lids lifted. If irritation persists seek medical advice.

Ingestion: In case of ingestion, drink water. Do not induce vomiting. Seek medical advice.

5 Fire-fighting measures

This preparation is not flammable and does not support combustion. The following applies for a fire

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involving this preparation.

Suitable extinguishing agents: Foam, water spray jet, powder, carbon dioxide, sand, earth.

Unsuitable extinguishing media: Full water jet.

Fire and explosion hazards: In case of fire, product may form: unburnt hydrocarbons, carbon oxides, oxides of phosphorus.

Protective equipment: Do not breath vapors. Wear self-contained breathing apparatus.

6 Accidental release measures

Personal precautions: Ensure adequate ventilation. Avoid contact with eyes and skin. See also section 8.

Measures for environmental protection: Do not allow larger quantities to enter the sewage system / ground / soil.

Inform responsible authorities after accidental conduction of larger quantities.

Measures for cleaning / collecting: If possible ventilate the area. Remove from surface with suitable absorbent and place in suitable containers. Disposal according to section 13.

7 Handling and storage

Handling

Information for safe handling: Use in well ventilated areas. Observe the usual precautionary measures for handling chemicals. Wear suitable gloves.

Precautions in case of fire and explosion: No special measures required.

Storage

Requirements to be met by storerooms and containers: Floor must be resistant against solvents and acids.

Information about storage in one common storage facility: Store away from oxidizing agents and strong bases.

Further information on storage conditions: Store in a cool, dry, frost free place. Keep out of reach of children.

8 Exposure controls and personal protection

Additional information on design of technical systems: Ensure adequate ventilation.

Components with critical values that require monitoring at the workplace:

The product contains kerosene which has an Occupational Exposure Limit of: MAK 500mg/m³
(Source: German TRGS)

(For monitoring exposure limits of ingredients of a preparation are only conditionally suitable)

General protective and hygienic measures:

Avoid contact with eyes and skin. Do not eat, drink or smoke during work.

Personal protective equipment

Respiratory protection: None necessary under normal working conditions.

Hand protection: PVC or rubber gloves with prolonged use.

Eye protection: chemical resistant goggles if eye contact can accidentally occur.

Skin protection: Wear an apron or coveralls if exposure is likely to be prolonged.

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The product does not present a significant hazard in normal use. Data above refers to prolonged contact with large quantities of product.

9 Physical and chemical properties

Form: viscous liquid
Colour: blue
Odour: characteristic

Safety-relevant data

Flash point: > 61 °C
pH-value (as is) : appr. 1,0

Other data

Density (g/ml): 1,38
Solubility in water: dispersible, emulsifiable
Viscosity: appr. 1.000 cps (20 °C)
Kinematic viscosity: > 7x10⁻⁶ m²/sec (40°C)

10 Stability and reactivity

Thermal decomposition / Conditions to avoid:

Stable under normal conditions. Avoid temperatures exceeding 50°C.

Hazardous reactions:

Avoid contact with strong oxidizing agents and bases.

Hazardous decomposition products

No decomposition if used under normal conditions. See section 5 for combustion products.

11 Toxicological information

Skin contact: Irritating effect possible (not classified according to EC-regulation)

Eye contact: Irritating effect possible (not classified according to EC-regulation)

Ingestion: The viscosity of this preparation mitigates the risk of aspiration into the respiratory system during ingestion or vomiting.

12 Ecological information

Ecotoxic effects:

No data of the finished product available.

Mobility and bioaccumulation:

Air: solvent partly evaporates within one day from water or ground surfaces

Water: solvent swims on water

Ground: bioaccumulation of the solvent possible

Persistence and degradability

The solvent used in the products is readily biodegradable.

Other ecological information:

Do not allow product to reach ground water, water bodies or sewage system.

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13 Disposal considerations

Product

Recommendation: Dispose of in accordance with all applicable local and national regulations.

Uncleaned packaging

Recommendation: Dispose in accordance with local and national regulations.

14 Transport information

Not classified as hazardous for international transport by land, sea or air.

15 Regulatory information

Classification and labelling according to EC directives

Symbol:

Classification:

R - phrases:

S - phrases:

Recommended phrases:

Keep out of the reach of children. If swallowed, do not induce vomiting. Call physician immediately.

National regulations

For the distribution or handling please comply with the national (regional) regulations or any other national measures that may be relevant.

16 Other information

List of relevant R-phrases in section 2:

- R34: Causes burns.
- R41: Risk of serious damage to eyes.
- R65: Harmful: may cause lung damage if swallowed.
- R66: Repeated exposure may cause skin dryness or cracking.
- R21/22: Harmful in contact with skin and if swallowed.

Additional information

The information provided in this Safety Data Sheet is correct to our best knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

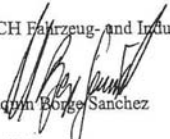
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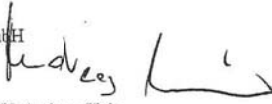
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