

Material Safety Data Sheet

Product name: Haze Cleaner

Cleaning fluid

Revised on January 17, 2012

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1. Product name, company name

Product:

Fluid Cleaner

Manufacturer:

Ergon Armor

P.O. Box 1639

Jackson, MS 39215-1639

Tel.: 1-601-933-3540

Fax: 1-601-933-3369

2. Formulation / information on components

Chemical characterisation: solvent/surfactant blend

Hazardous components:

CAS No.	Name	Classification.	R phrases
100-51-6 < 85 %	Benzyl alcohol	Xn	20/22

(See Section 16 for a description of R phrases)

3. Possible hazards in preparation

Hazard classification: Xn Harmful to health

Particular hazard warnings for health and environment: 20/22

Harmful if inhaled or swallowed.

Eye irritant: 36

4. First aid measures

General instructions:

When symptoms occur, or if in doubt, seek medical attention. In cases of loss of consciousness, do not administer medication via the mouth.

After inhalation:

Ensure a fresh air supply, place the casualty in the resting position and keep the casualty warm. In cases of irregular breathing or cessation of breathing, start rescue breathing. If the casualty is unconscious, place the casualty in the recovery position and seek medical attention.

After skin contact:

Immediately remove contaminated or soiled clothing. Thoroughly clean soaked skin with water and soap or other appropriate cleaning agent.

After eye contact:

Hold eyelids open and flush for at least ten minutes with copious amounts of clean running water; seek medical attention.

After swallowing:

Seek medical attention at once! Keep patient calm. Do not induce vomiting!

5. Fire prevention measures

Appropriate extinguishing media:

Foam (alcohol-proof), carbon dioxide, powder, spray mist (water)

Inappropriate extinguishing media for safety reasons:

Water jet

Particular hazards due to the substance, its oxidation products or gases produced:

When on fire, a thick, black smoke is produced. The inhalation of harmful decomposition products can cause serious damage to health.

Particular health protection:

Breathing protection is necessary as applies. Closed containers near the centre of the fire should be cooled with water.

6. Accidental release measures

Personal precautions:

Keep away from possible ignition sources. Use only in well-ventilated surroundings. Do not breathe in vapour or aerosols.

Observe protection regulations (see Sections 7 and 8)

Environmental protection measures:

Process for cleaning and containment:

Contain released material with absorption media (e.g. sand, kieselguhr, vermiculite) and transfer to suitable containers for disposal according to the local regulations.

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7. Storage and handling

Handling

Instructions for safe handling:

Avoid the formation of flammable and explosive solvent-air mixtures in the air. Keep below explosion limits. Keep open flame, fire and other ignition sources away. Avoid contact with the eyes and skin. Do not inhale vapour or spray mist. Do not eat, drink or smoke while working.

See Section 8 for personal protection equipment. Follow the legal safety and protection regulations.

Instructions on fire and explosion protection:

Solvent vapours are heavier than air and spread over the ground. In combination with air, the vapours create an explosive mixture.

Storage

Requirements on storage rooms and containers:

Containers should be closed and sealed. Carefully close open containers and store in an upright position to prevent any leakage.

Further information on storage conditions:

Always store in containers that are equivalent to the original storage packaging. Observe the instructions on the label. Keep in a dry, well-ventilated area at a temperature between 5° and 35°C. Protect from heat or direct sunlight. Keep away from ignition sources.

Storage classification: n/a

8. Exposure limitation and personal protection equipment

Technical protection measures

Make sure that the area is well ventilated. This can be implemented through local vapour extraction equipment or through general waste air removal.

Components with limit values related to the workplace that must be monitored:

CAS No.	Name	Classification	R phrases
100-51-6	Benzyl alcohol	Xn	20/22

The values given were taken from the lists valid at the time of production.

Personal protection:

Breathing protection

When spraying with an airless unit, breathing protection must be worn with a type A gas filter in combination with a P2 particle filter.

Hand protection

As spray/splash protection, coated cotton gloves such as KCL "Sahara" are recommended.

Apply protection cream for hand surfaces that could come into contact with the product.

Observe manufacturer's recommendations.

Eye protection

Safety glasses should be worn to protect against spray and splashes.

Body protection

Remove contaminated clothing and wash before wearing again. After contact with skin, thoroughly wash skin surfaces and apply cream.

9. Physical and chemical characteristics

Form: liquid Colour: colourless Odor: mildly aromatic

	Value	Unit	Method
Viscosity at 20°C	3000 – 6000	mPas	Rotation viscosimeter
Density at 20°C	1.09	g/cm ³	Pycnometer
Flash point:	82	°C	Pensky-Martens
Lower explosion limit:	1.3	Vol. %	calculated
Upper explosion limit:	13.0	Vol. %	calculated
Ignition temperature:	265	°C	Literature value
Steam pressure at 20°C	23	mbar	Literature value
(Substance with highest steam pressure)			
Change in state:			
Freezing/melting point:		°C	
Boiling point:		°C	Literature value
Water solubility:	100	in emulsifier	
pH value:	6.00	10g/l	pH electrode
Solid mass:	9.80	%	
Solid volume:	5.08	%	

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10. Stability and reactivity

Conditions to be avoided:

Stable if handled and stored according to the regulations outlined in Section 7.

Substances to be avoided:

Keep away from strong acids and alkalis as well as oxidants in order to prevent exothermic reactions.

Hazardous decomposition products:

At high temperatures, hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke and nitrous oxide may be liberated.

11. Toxicological information

In evaluating the health procedures for this product, the conventional method according to the hazardous chemicals regulation was applied (calculation method).

The appropriate use of this product is as a cleaning material for the removal of an extraneous epoxy resin layer or haze after joining ceramic surfaces with epoxy resin. Henkel Haze Cleaner does not contain any chlorinated or aromatic hydrocarbons; however, the usual precautions are to be upheld when directly working with the product.

Main irritation:

On the skin: irritant to skin and mucous membranes.

On the eyes: irritant

Sensitisation: there is no known sensitisation effect. If used correctly and appropriately, the product does not pose any health hazard in our experience and according to the information available to us.

12. Ecological information

Information on elimination (persistence and degradability)

Test method: determination of biological degradability according to EN 29888 1993 D

Analysis method: DOC determination

Elimination rate: 100 %

Evaluation: readily biodegradable

General notes:

Water hazard class 1 (German Regulation): slightly hazardous for water.

13. Notes on disposal

Product

Recommendation:

Should not be disposed of with domestic refuse

Approach the manufacturer or waste exchange for recycling.

Waste key number:

The waste key number is to be applied according to the industry and process details in accordance with the EWC regulation.

Non-cleaned packaging:

Recommendation: empty container completely.

Residues may represent an explosion hazard.

Containers can be submitted for recycling after appropriate cleaning.

Containers that cannot be cleaned are to be disposed of in the same way as the chemical itself.

14. Shipping regulations

Not a hazardous product in the sense of the shipping regulations.

Product should only be shipped to the shipping regulations for road (ADR), rail (RID), sea (IMDG) and air (ICAO/IATA).

Shipping across land: ADR/RID and GGVS/GGVE (across national borders/domestic shipment)

ADR/RID-GGVS/E class: no hazardous chemical number/letter.

UN No.:

Hazard trigger:

Sea shipping IMDG/GGV Sea

IMDG/GGV Sea class: PG:

UN No:

EmS No.: MFAG:

Marine pollutant:

Correct technical term:

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Air freight: ICAO-TI and IATA-DGR

ICAO/IATA class: PG:

UN No.:

Correct technical term:

Packaging group:

15. Regulations

Classification according to the hazardous chemicals regulations

Code letter and hazard classification of the product:

Xn Harmful to health

Component(s) determining hazard for labelling:

R phrases:

20/22 Harmful to health on inhalation or swallowing.

S phrases:

2 Must be kept out of children's reach.

46 If swallowed, immediately seek medical attention; present either packing or label.

38 In insufficient ventilation, wear breathing protection.

51 Only use in well-ventilated areas

23 Do not inhale the vapours.

23 Do not inhale the aerosols.

Particular classification:

Classification according to the washing and cleaning materials law (Wasch- und Reinigungsmittelgesetz)

Water protection law (Wasserhaushaltsgesetz) information:

Water hazard class: 1

Immissions protection information:

TA-Luft Class I: 0 % Class III: 90 %

(TA Luft is the German technical instruction manual on air protection)

Classification in Switzerland:

Swiss poison class:

BAGT No.:

Product code: M-AB10

Relative risk number according to TRGS 440: 2.5

16. Miscellaneous information

R phrases with respective codes from section 2: 20/22 harmful to health
36 eye irritant

The information contained in this safety data sheet is in accordance with our current level of knowledge and satisfies national and EU law. However, the circumstances under which the product is finally used are beyond our control.

This product may not be added to any other product other than for the purpose specified in Section I. The user is responsible for upholding all necessary legal requirements.

The information contained in this safety data sheet describes the safety requirements of our product and do not represent any assurance as to the product's qualities.

The information contained in this safety data sheet is a requirement of §14 of the German hazardous chemicals regulation (Gefahrstoffverordnung) as on October 26, 1993, last altered by the second regulation for protection from hazardous chemicals of September 19, 1994.