

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 26/07/2005

Internal No.:

Replaces date: 25/11/2002

Barrikade EW-Klar A-component

1. IDENTIFICATION OF PRODUCT AND COMPANY

| | |
|---|---|
| <input checked="" type="checkbox"/> Approved for use | <input type="checkbox"/> Godkjent for distribusjon. |
| <input type="checkbox"/> Approved for laboratory use | <input type="checkbox"/> |
| <input type="checkbox"/> Approved by Hesselberg Bygg AS | <input type="checkbox"/> |

| | |
|--------------------|-------------------------------|
| TRADE NAME | Barrikade EW-Klar A-component |
| GROUP NAME | Barrikade |
| APPLICATION | BINDERS |

Producer/importer

| | |
|--------------------|--|
| Company | A/S Sigurd Hesselberg, Hesselberg Bygg |
| Address | P.O. Box 1023 Jeløy |
| Postal code | N-1510 Moss |
| Country | Norway |
| E-mail | bygg@hesselberg.no |
| Internet | www.hesselberg.com |
| Telephone | + 47 69 27 30 00 |
| Fax | + 47 69 27 46 30 |

| | | |
|-------------|---------------------------|---------------------|
| Name | E-mail | Phone (work) |
| Ole Stræte | ole.straete@hesselberg.no | + 47 69 27 69 15 |

Emergency Telephones

| | |
|------------------------|--------------------|
| Emergency Phone | Information |
| + 47 22 59 13 00 | |

2. COMPOSITION/INFORMATION ON INGREDIENTS

| No | Ingredient name | EC No. | CAS No. | Conc. (wt%) | Classification |
|----|--|-----------|------------|-------------|----------------------------|
| 1 | Bisfenol-A-diglycidylether (reaction product); homologs with mol weight <= 700 | 500-033-5 | 25068-38-6 | < 80 % | Xi,R36/38 - R43 - R51/53 |
| 2 | Bisphenol F-diglycidylether | | 9003-36-5 | < 20 % | Xi,N,R36/38 - R43 - R51/53 |
| 3 | Glycidylether of C12-C14 alcohols | 271-846-8 | 68609-97-2 | < 15 % | Xi,N,R36/38 - R43 - R51/53 |

Legend: T+=Very toxic, T=Toxic, C=Corrosive, Xn=Harmful, Xi=Irritant, E=Explosive, O=Oxidising, F+=Extremely flammable, F=Highly flammable, N=Dangerous for the environment

3. HAZARDS IDENTIFICATION



Irritating

Dangerous for
the
environment

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 26/07/2005

Internal No.:

Replaces date: 25/11/2002

Barrikade EW-Klar A-component

HEALTH

Irritating to eyes and skin. May cause sensitization by skin contact.

ENVIRONMENT

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES



GENERAL

If in doubt, get medical advice. Show this safety data sheet to the physician present.

INHALATION

Immediately move the exposed person to fresh air.

SKIN CONTACT

Remove contaminated clothing, watches etc. Wash skin thoroughly with soap and water. Do NOT use solvents or thinners. Get medical advice if irritation persists.

EYE CONTACT

Flush with large amounts of water (open eyelids) for at least 15 minutes. If eye irritation persists, consult a specialist.

INGESTION

Give plenty of water to drink. If a person vomits when lying on his back, place him in a stable position, lying on one side. DO NOT INDUCE VOMITING!

MEDICAL INFORMATION

Persons with rash are directed to skin expert for examination of allergic dermatitis.

5. FIRE-FIGHTING MEASURES



EXTINGUISHING MEDIA

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

IMPROPER EXTINGUISHING MEDIA

Do not use water jet.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Use special protective clothing. Standard protective equipment may be unsuitable. Use self-contained breathing apparatus if the substance is involved in fire.

OTHER INFORMATION

Containers close to fire should be removed immediately or cooled with water.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 26/07/2005

Internal No.:

Replaces date: 25/11/2002

Barrikade EW-Klar A-component

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS

Avoid skin contact. Provide good ventilation. Keep away from sources of ignition - No smoking.

ENVIRONMENTAL PRECAUTIONS

Prevent product from entering drains. Do not contaminate surface water. Avoid subsoil penetration.

METHODS FOR CLEANING UP

Remove spill with absorbent materials and/or mechanical equipment, and dispose of in accordance with section 13.

7. HANDLING AND STORAGE



HANDLING ADVICE

Avoid contact with skin, eyes and clothing. Provide sufficient air exchange and/or exhaust ventilation in work rooms. Provide good ventilation. Open and handle container with care.

STORAGE

Keep container tightly closed. Keep away from food, drink and animal feed. Store at room temperature.

8. EXPOSURE CONTROL/PERSONAL PROTECTION



EXPOSURE CONTROL

Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothing.

RESPIRATORY PROTECTION

Use respiratory protection

EYE PROTECTION

Wear approved goggles or face shield.

HAND PROTECTION

Barrier creams may help to protect the exposed areas of the skin, Use protective gloves of: 4H multilayered gloves. Polyethylene/ethylenevinyl alcohol (PE/EVOH).

PROTECTIVE CLOTHING

Wear protective shoes, protective suit

OTHER INFORMATION

Change work clothing daily before leaving workplace. Remove contaminated clothing immediately and wash contaminated skin as soon as possible.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 26/07/2005

Internal No.:

Replaces date: 25/11/2002

Barrikade EW-Klar A-component

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------|---------------------|
| Physical State | Liquid. |
| Colour | Clear. |
| Odour | Weak |
| Solubility | Immiscible in water |

Physical and chemical parameters

| Parameter | Value / Unit | Method | Note |
|---------------|--------------------------|--------|------|
| Boiling point | > 200 °C | | |
| Flash point | ~ 130 °C | | |
| Density | = 1,13 kg/m ³ | | |
| Viscosity | ~ 1000 cP | | |

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID

Avoid static electric discharge

MATERIALS TO AVOID

Strong oxidizing agents.strong acids and strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide.Burning produces bad-smelling and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxic testresults

| | | |
|-----------------|--------------|------------------|
| Acute oral tox. | > 5000 mg/kg | LD50 (rotte/rat) |
|-----------------|--------------|------------------|

SKIN CONTACT

Irritating.

EYE CONTACT

Irritating.

SENSITIZATION

The product contains an epoxy resin, which may cause sensitization and development of allergy.

12. ECOLOGICAL INFORMATION

MOBILITY

Not soluble in water.

DEGRADABILITY

Not readily biodegradable.

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 26/07/2005

Internal No.:

Replaces date: 25/11/2002

Barrikade EW-Klar A-component

OTHER EFFECTS

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CONCLUSION

Avoid subsoil penetration. Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Larger quantities must be disposed of at approved hazardous waste treatment facility or storage site, together with appropriate hazard waste documents.

CATEGORY OF WASTE

07 02 08 other still bottoms and reaction residues

14. TRANSPORT INFORMATION

Classified as Dangerous Goods: Yes No N/A

UN No.: 3082

PROPER SHIPPING NAME

Environmentally hazardous substance, liquid, n.o.s.

ADR/RID

| | | | |
|--------|---|----------------|-----|
| Class: | 9 | Packing group: | III |
|--------|---|----------------|-----|

IMDG

| | | | |
|-----------|---|----------------|---------|
| Class: | 9 | Packing group: | III |
| Sub Risk: | | EMS: | F-A S-F |

IATA

| | | | |
|--------|---|----------------|-----|
| Class: | 9 | Packing group: | III |
|--------|---|----------------|-----|

15. REGULATORY INFORMATION



Irritating



Dangerous for the environment

EC-Label No Yes N/A

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 26/07/2005

Internal No.:

Replaces date: 25/11/2002

Barrikade EW-Klar A-component

COMPOSITION

Bisfenol-A-diglycidylether (reaction product); homologs with mol weight ≤ 700 (< 80 %), Bisphenol F-diglycidylether (< 20 %), Glycidylether of C12-C14 alcohols (< 15 %)

R-PHRASES

| Nr. | R-Phrase text |
|--------|---|
| R36/38 | Irritating to eyes and skin. |
| R43 | May cause sensitisation by skin contact. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

S-PHRASES

S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S-28 After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection.. S-61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

REFERENCES

Norwegian Labour Inspectorate: Regulations concerning hazard labelling (health, fire, explosion).

OTHER INFORMATION

Contains epoxy components. Seek more information from the producer.

16. OTHER INFORMATION



VENDOR NOTES

Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification.

LIST OF RELEVANT R-PHRASES

| Nr. | R-Phrase text |
|--------|---|
| R36/38 | Irritating to eyes and skin. |
| R43 | May cause sensitisation by skin contact. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

ISSUED:

26/07/2005

REVISION HISTORY

| Version | Rev. date | Responsible | Changes |
|---------|------------|-------------|---------|
| 1.0.0 | 28/07/2005 | Ole Stræte | Update |

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 26/07/2005

Internal No.:

Replaces date: 25/11/2002

Barrikade EW-Klar A-component

SDS prepared by

| | |
|--------------------|--|
| Company | A/S Sigurd Hesselberg, Hesselberg Bygg |
| Address | P.O. Box 1023 Jeløy |
| Postal code | N-1510 Moss |
| Country | Norway |
| E-mail | bygg@hesselberg.no |
| Internet | www.hesselberg.com |
| Telephone | + 47 69 27 30 00 |
| Fax | + 47 69 27 46 30 |

| Name | E-mail | Phone (work) |
|-------------|---------------------------|---------------------|
| Ole Stræte | ole.straete@hesselberg.no | + 47 69 27 69 15 |