



BY APPOINTMENT
TO HER MAJESTY THE QUEEN
MANUFACTURERS OF LEATHER
J. HEWIT & SONS LTD, EDINBURGH

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HEALTH AND SAFETY AND TECHNICAL INFORMATION

DYE-FIX

1. Identification of the substance/preparation and of the company/undertaking

Trade name Dermafix WE liq (Dye-Fix)

Use of the substance/preparation.

Industry sector : Textile processing industry
Type of use : Textile auxiliary
Fixing agents

Use of the substance/preparation.

Industry sector : Paper, pulp and board industry
Type of use : Auxiliary for the paper industry

Identification of the company

Clariant Distribution UK Ltd
Unit 2, Rawdon Park
LS19 7BA Yeadon, LEEDS
Telephone no. : +44 113 239 7920

Information about the substance/preparation

Textile, Leather & Paper Chemicals
Product Safety, ++41-(0)61-469-5121
e-mail: TLP.PS@clariant.com
Emergency telephone number : 00800-5121 5121 (24 h)

2. Hazards identification

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

3. Composition/information on ingredients

Chemical characterization

methylolamide
cationic

Hazardous ingredients

Acetic Acid
Concentration : 4 %
CAS number : 64-19-7
EINECS number : 200-580-7
Hazard symbols C
R phrases 10 35

Cyanoguanidine polymer (monomers are on EINECS)

Concentration : 40 - 50 %
Hazard symbols N
R phrases 51/53

The text of the R-phrases is shown in section 16.

4. First aid measures

After inhalation

Immediately seek fresh air after inhaling of dust, vapour or aerosol.

After contact with skin

In case of contact with skin, clean with soap and water.

After contact with eyes

Immediately rinse eyes with running water and seek medical advice.

After ingestion

If swallowed seek medical advice immediately (treat symptomatically).

5. Fire-fighting measures

Suitable extinguishing media

compatible with all usual extinguishing media

Extinguishing media that must not be used for safety reasons

No restrictions

Special hazards from the substance itself, its combustion products or from its vapours

hydrogen chloride
nitrogen oxides

Further information

This product is not combustible

6. Accidental release measures

Methods for cleaning up/taking up

Pick up with absorbent material (eg sand, sawdust). Rinse away rest with water

Additional information

Take up as such and consider recycling.

7. Handling and storage

Advice on safe handling

No special measures required.

Advice on protection against fire and explosion

No special measures required.

Further information on storage conditions

Keep containers tightly closed.
Do not store at temperature exceeding 50 °C
Do not store at temperatures below -5 °C

8. Exposure controls / personal protection

Occupational exposure controls

Additional advice on system design

Good general ventilation should be provided to keep vapor concentrations below the recommended exposure limit.

Exposure limit values

Acetic acid

CAS number : 64-19-7
EU. Directive 91/322/EEC on indicative exposure limits
EU OEL - Directive on indicative exposure limits
Revision : 29/05/1991
Threshold Limit Values
Values: 25 mg/m³ 10 ppm

Formaldehyde

CAS number : 50-00-0
Table 1: List of approved workplace exposure limits 2007
UK OEL - EH40 WELs
Revision : 17/10/2007
Long-term exposure limit (8-hour TWA reference period)
Values: 2.5 mg/m³ 2 ppm

Formaldehyde

CAS number : 50-00-0
Table 1: List of approved workplace exposure limits 2007
UK OEL - EH40 WELs
Revision : 17/10/2007
Short-term exposure limit (15-minute reference period)
Values: 2.5 mg/m³ 2 ppm

General protective measures Avoid contact with eyes and skin

Respiratory protection : If ventilation insufficient, use a respiratory protection apparatus

Hand protection : Use impermeable, CE-approved gloves for the manipulation of chemical products. Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements

Eye protection : safety glasses

9. Physical and chemical properties

Form : aqueous solution
Colour : light yellow
Odour : yes
Melting point : not applicable
Boiling point : approx. 100 °C
Flash point : no flash point up to the boiling point
Density : 1.2 g/cm³ (20 °C, 1,013 hPa)
Solubility in water : miscible
pH value : 2.5 - 3.5 (20 °C)
Viscosity (dynamic) : 55 mPa.s
Method : Brookf-Visc.RVT Sp.1

10. Stability and reactivity

Hazardous reactions

Partial hydrolysis with water releasing formaldehyde

Hazardous decomposition products

Possibility of splitting-off of small amounts of formaldehyde.

Conditions to avoid

Avoid contact with alkaline materials.

11. Toxicological information

Acute oral toxicity : LD50 > 2,000 mg/kg (rat)
Method : internal test

Irritant effect on skin : non-irritant (rabbit)
Method : internal test

Irritant effect on eyes : irritant (rabbit)
Method : internal test

12. Ecological information

Biodegradability : approx. 60 % (14 d, TOC)
Method : HOECHST method
< 10 % (28 d, BOD/CODX100)
Method : OECD 301F * 1992 * Manometric respirometry

Fish toxicity : LC0 1 mg/l (96 h, rainbow trout (salmo gairdneri, oncorhynchus mykiss))
Method : mod. routine bioassay method of 1.11.74
LC50 3 mg/l (96 h, rainbow trout (salmo gairdneri, oncorhynchus mykiss))
Method : mod. routine bioassay method of 1.11.74

Bacteria toxicity : IC50 > 100 mg/l (activated sludge)
Method : OECD 209 * 1984 activated sludge.Respir.inhib.

Chemical oxygen demand (COD): 170 mg/g
Method : DIN 38409-H41

Biochemical oxygen demand (BOD5) : < 10 mg/g
Method : OECD 301F * 1992 * Manometric respirometry
5 d

13. Disposal considerations

Product

Dispose of in accordance with local authority regulations

Uncleaned packaging

Consider recycling.

Composition

C , Cl , H , N , Na , O ,

14. Transport information

ADR

Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.
Class:	8
Packing group:	III
UN no.	UN 3265
Primary risk:	8
Hazard no.	80
Remarks	Shipment permitted
Hazard inducer(s):	Methylol amide derivative

ADNR

Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.
Class:	8
Packing group:	III
UN no.	UN 3265
Primary risk:	8
Remarks	Shipment permitted
Hazard inducer(s):	Methylol amide derivative

RID

Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.
Class:	8
Packing group:	III
UN no.	UN 3265
Primary risk:	8
Hazard no. :	80
Remarks	Shipment permitted
Hazard inducer(s):	Methylol amide derivative

IATA

Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.
Class:	8
Packing group:	III
UN/ID number:	UN 3265
Primary risk:	8
Remarks	Shipment permitted
Hazard inducer(s):	Methylol amide derivative

IMDG

Proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.
Class:	8
Packing group:	III
UN no.	UN 3265
Primary risk:	8
Remarks	Shipment permitted
Hazard inducer(s):	Methylol amide derivative
Marine pollutant:	Marine Pollutant
EmS :	F-A S-B

15. Regulatory information

Labelling in accordance with EC-Directives

Labelling according to EC Directives:

Hazard symbols

Xi	Irritant
N	Dangerous for the environment

R phrases

36

Irritating to eyes.

51/53

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

S phrases

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Wear eye/face protection.

26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

29

Do not empty into drains.

61

Avoid release to the environment. Refer to special instructions/Safety data sheets.

57

Use appropriate container to avoid environmental contamination.

16. Other information**Text of the R-phrases assigned to the ingredients/components mentioned in****section 3 :**

10

Flammable.

35

Causes severe burns.

51/53

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

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply