

Article no.: HD0603
Date of print: 26.09.2011

DURELASTIC-Härter MEKP-50
Revision date: 02.11.2010

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

Article no. (manufacturer / supplier): HD0603
Identification of the substance or preparation: DURELASTIC-Härter MEKP-50
Supplier (manufacturer/importer/downstream user/distributor):
Emil Frei GmbH & Co.KG
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(24-Hour-Number)

2. Hazards identification

Hazard designation:



O Oxidizing



C Corrosive

Information pertaining to special dangers for human and environment

7 May cause fire.
22 Harmful if swallowed.
34 Causes burns.

3. Composition/ Information on ingredients

chemical characterization (preparation)

Description: Preparation based on peroxide

Hazardous ingredients:

EC No:	Identification of the hazard:	danger symbol(s):	% by weight
CAS No.:	R phrases:	Remark:	
INDEX no.:	REACH No:		
215-661-2	2-Butanon-peroxid	C,E	25 < 50
1338-23-4	2-7-22-34		
231-765-0	hydrogen peroxide solution	C,O	1 < 2,5
7722-84-1	5-8-20/22-35		
008-003-00-9			
201-159-0	butanone	Xi,F	1 < 2,5
78-93-3	11-36-66-67		
606-002-00-3			

Additional information

* Substance with a common (EC) occupational exposure limit value.
Full text of R-phrases: see section 16.

4. First-aid measures

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

In case of eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

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After ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

5. Firefighting measures

Suitable extinguishing media:

alcohol resistant foam, Carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

Strong water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

Additional information:

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. Accidental release measures

Personal precautions

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

Environmental measures

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

methods for cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

7. Handling and storage

Handling

Advices on safe handling

Only use the material in places where open light, fire and other flammable sources can be kept away. Use only spark proof tools. Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protective equipment: refer to chapter 8. Follow the legal protection and safety regulations.

Storage

Requirements for storerooms and containers:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Lighting and other electric equipment must be explosion protected in order to avoid hot surfaces, sparks and other ignition sources. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Always close containers tightly after the removal of product.

Hints on joint storage

Keep away from combustible material. Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

Further information on storage conditions

Always keep in containers that correspond to the material of the original container. Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition.

8. Exposure controls / Personal protection

Technical measures to prevent exposure

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

EC No:	Description:	type:	Limit value	unit
CAS No.:			STEL (EC) TWA (EC)	
215-661-2	2-Butanon-peroxid		1,5	

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1338-23-4			0,2		
231-765-0	hydrogen peroxide solution		2,8	1,4	mg/m3
7722-84-1			2	1	ppm
201-159-0	butanone		899	600	mg/m3
78-93-3			300	200	ppm

Additional information

Stated values are taken from the then applicable German TRGS 900 or the German VCI table for exposure limit values.

TWA (EC): Occupational exposure limit value

STEL (EC): Short term occupational exposure limit value

Occupational exposure controls:

Respiratory protection:

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection:

For prolonged or repeated handling the following glove material must be used: Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended glove articles: DIN EN 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection:

Wear closely fitting protective glasses in case of splashes.

Body protection:

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

9. Physical and chemical properties

Appearance:

Physical state: liquid

Colour: colorless

Odour: typical

Safety relevant basis data

	unit	Method	Remark:
Flash point (°C):	62 °C	--	
Ignition temperature (AIT):			
lower explosion limit:	not applicable Vol-%	--	
Upper explosion limit:	not applicable Vol-%	--	
Vapour pressure (at temperature in °C): 20	not applicable mbar		
density(at temperature in °C): 20	1,10 g/cm³	--	
Water solubility (g/l):	not soluble		
Viscosity:	19-22 mPas		
Solid content (%):	100 % by weight		
solvent content:			
Organic solvents:	0 % by weight		
Water:	0 % by weight		
Decomposition temperature:	> 50 °C		

10. Stability and reactivity

Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

Materials to avoid

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, benzene.

11. Toxicological information

No data on preparation itself available.

Practical experience

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Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

12. Ecological information

Overall evaluation:

There is no information available on the preparation itself.
Do not allow to enter into surface water or drains.

Results of PBT assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. Disposal considerations

Appropriate disposal / Product

Recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Control report for waste code/ waste marking according to EAKV:

160903 peroxides, for example hydrogen peroxide

Contaminated packaging:

Recommendation:

Cleaned containers may be recycled. Vessels not properly emptied are special waste.

14. Transport information

Transport according to ADR/RID, IMDG and ICAO/IATA.

Land transport (ADR/RID)

Class:	5.2
Hazard label:	5.2
UN-No.:	3105
Proper Shipping Name contains:	Organic peroxide type D, liquid METHYLETHYLKETONPEROXID
Packing Group:	not applicable
Tunnel restriction code:	D

Sea transport (IMDG)

Class:	5.2
Hazard label:	3 (8)
EmS-No.:	F-E, S-C
UN-No.:	3105
Proper Shipping Name contains:	ORGANIC PEROXIDE TYPE D, LIQUID METHYLETHYLKETONPEROXID
Packing Group:	not applicable
Marine pollutant:	not applicable

Air transport (ICAO-TI / IATA-DGR)

Class:	5.2
Hazard label:	5.2
UN-No.:	3105
Proper Shipping Name contains:	Organic peroxide type D, liquid METHYLETHYLKETONPEROXID
Packing Group:	not applicable

15. Regulatory information

EU legislation

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Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

Labelling (67/548/EEC or 1999/45/EC)

Danger symbol(s) and danger term(s) for dangerous materials and preparations:



O Oxidizing



C Corrosive

Contains:

2-Butanon-peroxid

R phrases:

7 May cause fire.
22 Harmful if swallowed.
34 Causes burns.

S-phrases:

3/7 Keep container tightly closed in a cool place.
14 Keep away from .? .
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
50 Do not mix with .? .
60 This material and its container must be disposed of as hazardous waste.

Special provisions concerning the labelling of certain mixtures

not applicable

Other regulations (EU):

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/l) ISO 11890-2: 0
VOC-value (in g/l) ASTM D 2369: 0

National regulations

Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

16. Other information

Wording of the r-phrases under paragraph 3:

2 Risk of explosion by shock, friction, fire or other sources of ignition.
7 May cause fire.
22 Harmful if swallowed.
34 Causes burns.
5 Heating may cause an explosion.
8 Contact with combustible material may cause fire.
20/22 Harmful by inhalation and if swallowed.
35 Causes severe burns.
11 Highly flammable
36 Irritating to eyes.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.