

1. description of item production and manufacture

Trade name: ORAGUARD® 289F

Use: laminating film

manufacturer

Orafol Europe GmbH

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Emergency Telephone

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2. possible dangers

risk to human beings and environment: none

3. composition / information about components

chemical characteristics

pvc free polymer film

polyacrylate adhesive

polyester film, siliconised

Dangerous contents

Do not contain hazardous substances neither substances of the "Candidate List of Substances of Very High Concern for authorisation" ECHA (REACH) concentration >0,1 % (w/w) (Relating: film + adhesive)

* The original components which are used in the formulation of these products form the basis of evaluation. This statement refers to the condition when leaving the factory ORAFOL Europe GmbH in Oranienburg.

This information is based on our current knowledge and practical experience. It cannot be excluded that minor traces are included in the materials due to contamination of single raw material components which cannot be avoided from the technical point of view. Routine analyses of our products concerning contents of the above-mentioned components are not carried out. For factors which are beyond our knowledge and control any guarantee and liability cannot be accepted.

The statement refers to our current production. Old stock could deviation from the assessment.

4. recommendations for first medical aid

general information

| | |
|------------------------------------|------|
| after inhalation | none |
| after contact with the skin | none |
| after contact with the eyes | none |
| after having swallowed up | none |
| special information for the doctor | none |

5. recommendation for fire fighting

suitable fire extinguishing media all types

fire extinguishing media which are not suitable for safety reasons

None

special danger by the material itself and from combustion products

hazardous decomposition products at flame temperature: carbon dioxide, carbon monoxide. PVC-films develop gaseous HCl at flame temperature.

special protecting equipment none

additional information none

6. recommendations in case of unintentional escape

recommendations in respect of persons: none

recommendations regarding environment: none

recommendation for cleaning: none

additional information: none

7. handling and storage

information for use with danger

none

information regarding fire prevention and explosion

none

requirements to storage places and storage containers

none

further information

none

8. limitation of exposition and personal protective equipment

supplementary information regarding construction of technical plants

none

contents regarding working place and threshold values that have to be supervised

not applicable

personal protective equipment

| | |
|-----------------------|----------------------------------|
| breathing protection | not necessary |
| hand protection | not necessary |
| eye protection | not necessary |
| body protection | not necessary |
| hygiene recommendatin | as usual regarding working place |

9. physical and chemical properties

phenotype

| | |
|------------|-------------|
| appearance | solid |
| colour | transparent |
| odour | none |

data regarding security

| | |
|-----------------------------------|----------------|
| pH-value | not applicable |
| boiling point | not applicable |
| melting or fusing point | not applicable |
| flash point | not applicable |
| flammability on solid bases | not applicable |
| flammability of gases: | not applicable |
| flammable temperature | not applicable |
| spontaneous ignition of the solid | not applicable |
| spontaneous ignition of the gas | not applicable |
| properties assisting inflammation | not applicable |
| danger of explosion | not applicable |
| limits of explosion | not applicable |
| consistency/density | not applicable |
| water solubility/fat solubility | not applicable |
| viscosity | not applicable |

10. stability and reactivity

| | |
|-------------------------------------|---------------------------------|
| conditions to be avoided | not applicable |
| substances to avoid | not applicable |
| dangerous decomposition of products | none in case of appropriate use |

11. information regarding toxicology

acute toxicology

classification limit LD₅₀/LC₅₀-value

| | |
|--------------|----------------|
| oral | not determined |
| dermatologic | not determined |
| inhalative | not determined |

irritating effects

| | |
|---------|----------------|
| to skin | not applicable |
| to eyes | not applicable |

sensitizing effects

look to general remarks

experience from the practical use

| | |
|---------------------------|----------------|
| experience classification | not applicable |
| other experience | not applicable |

general remarks

Due to generally increasing allergic influences direct contact to the tacky surface should be avoided as far as possible as specific reactions to human skin cannot be excluded.

12. information regarding ecology

information regarding elemination not determined

(product life and decomposition)

environmental properties not applicable

eco- toxic reactions

aquatic effects generally speaking no danger to water
(self classification)

additional ecologic informations none

13. information regarding recycling

recommendation : waste class similar to household waste, is to be recycled according to the local regulations

14. information regarding transportation

additional information: *not classified as a dangerous product in respect to transportation regulations*

15. prescription / instructions

Comply with regulation RoHS Compliance EU Directive 2011/65

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No dangerous product / composition in respect to the classification of risks EEC No: 594/91 dated 4.3.91 is stuck to, also No: 67/548 (very toxic materials).

H phrases: none

P phrases: none

National regulations: Germany

Water hazard class – no hazardous for water.

16. other information

All information given in this certificate is based on our current knowledge and experience; the figures and individual information do not describe any technical data of a product and do not constitute a warranty of properties as defined by technical specifications.