



Europe GmbH

Safety Data Sheet according to
(EG)1907/2006

ORACAL[®] 451

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Version 02/14
Date 01.04.2014

1. description of item production and manufacture

Trade name: ORACAL[®] 451

"Special colours available on request"

Use: self adhesive film

manufacturer

Orafol Europe GmbH

Orafolstrasse 2

D - 16515 Oranienburg

Tel.: + 49 03301 864 0

Fax.: + 49 03301 864 100

E-mail address: p.kanert@orafol.de

Emergency Telephone

Information centre for symptom of poisoning Berlin + 49 030 19 240

2. possible dangers

risk to human beings and environment: none

3. composition / information about components

chemical characteristics

pvc - film

polyacrylate adhesive

silicone - coated paper

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



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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	according to desired tint
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



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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.