

## SAFETY DATA SHEET

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# Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

deffner & Johann

## 2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)

Page 2

Revised edition: 27.05.2015

Version: 1.2

Printed: 07.10.2016

### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Polyvinyl Acetate Copolymer

*Article No.:* 2510 000

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Raw material for industrial purposes.  
Adhesive, coating material, primer  
Binding agent*

*Uses advised against:*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Deffner & Johann GmbH

*Address:* Mühlackerstraße 13, D-97520 Rödthlein

*Tel./Fax.:* Tel. +49 9723 9350-0, Fax +49 9723 9350-25

*Internet:*

*E-Mail:* E-Mail: info@deffner-johann.de

*Importer:*

#### 1.4. Emergency No. *Tel. +49 9723 9350-0 (Mo. - Fr.: 8:00 - 15:00 Uhr)*

*Emergency No.:*

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation  
(EC) No. 1272/2008 (CLP/GHS)*

*Flammable liquids, hazard category 2  
Eye irritation, hazard category 2  
Specific Target Organ Toxicity (single exposure), hazard category 3*

H225 Highly flammable liquid and vapour.

Cat.: 2

H319 Causes serious eye irritation.

Cat.: 2

H336 May cause drowsiness or dizziness.

Cat.: 3

*Classification according to Directive No.  
67/548/EC or No. 1999/45/EC*

Flammable (F) R11 Highly flammable

Irritating (Xi) R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

*Safety Phrases:*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation*

next page: 2

# Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

## 2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)

Page 3

Revised edition: 27.05.2015

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(EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS02-2



GHS07

Signal word:

Danger

Hazard designation:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety designation:

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

Ethyl acetate

### 2.3. Other Hazards

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

Chemical Characterization: Organic solution based on a copolymer of vinyl acetate.

Information on Components / Hazardous Ingredients:

Ethyl acetate (F,Xi; R11-36-66/67; H225-319-336); REACH Reg. No. 01-2119475103-46-xxxx	< 38 %	CAS-Nr: 141-78-6 EINECS-Nr: 205-500-4 EC-Nr: 607-022-00-5
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Ethanol (F; R11; H225; 319); REACH Reg.-Nr. 01-2119457610-43	< 1 %	CAS-Nr: 64-17-5 EINECS-Nr: 200-578-6 EC-Nr: 603-002-00-5
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Vinyl acetate (F; Xn; R11-20-37-40; H225-332-335-351); REACH Reg. No. 01-2119471301-50-	< 0.5 %	CAS-Nr: 108-05-4 EINECS-Nr: 203-545-4
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next page: 3

**2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)**

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XXXX

EC-Nr:

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*Additional information:*

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**4. First Aid Measures**

**4.1. Description of the First Aid Measures**

*General information:*

*Seek medical attention in case of complaints.*

*After inhalation:*

*Supply fresh air and keep patient calm.*

*Give artificial respiration in case breathing is not regular or if it has stopped.*

*If breathing is difficult call a physician.*

*After skin contact:*

*Remove contaminated clothing. Wash off immediately with plenty of water and soap.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.*

*Seek medical attention if irritation persists.*

*After ingestion:*

*Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Consult physician immediately.*

*Never give anything by mouth to an unconscious person.*

**4.2. Most important Symptoms and Effects, both Acute and Delayed**

*Symptoms:*

*Swallowing: may cause nausea.*

*Inhalation: can cause dizziness.*

*Prolonged or repeated contact can irritate eyes and skin.*

*Effects:*

**4.3. Indication of any Immediate Medical Attention and special Treatment needed**

*Treatment:*

*First-aid measures must be specified together with the responsible physician for industrial medicine.*

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**5. Fire-Fighting Measures**

**5.1. Extinguishing Media**

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray jet.*

*Unsuitable extinguishing media:*

*None known.*

**5.2. Special Hazards arising from the Substance or Mixture**

*Special hazards:*

**2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)**

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*Fluid and vapors are highly flammable.  
In case of fire: formation of carbon oxides and smoke.*

**5.3. Advice for Firefighters**

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Avoid contamination of sewage system, open water ways and ground water.*

*Contaminated extinguishing water and debris should be disposed of according to local regulations.*

*Cool exposed containers with water spray.*

*Do not inhale explosion and fire gases.*

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**6. Accidental Release Measures**

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.*

*Provide adequate ventilation. Keep away from sources of ignition.*

**6.2. Environmental Precautions**

*Environmental precautions:*

*Prevent contamination of soil, drains and surface waters.*

**6.3. Methods and Material for Containment and Cleaning Up**

*Methods and material:*

*Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.*

*This product and its container must be disposed as hazardous waste.*

**6.4. Reference to other Sections**

*Protective clothing, see Section 8.*

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**7. Handling and Storage**

**7.1. Precautions for Safe Handling**

*Instructions on safe handling:*

*Provide adequate ventilation.*

*Avoid contact with eyes and skin.*

*Keep away from flames and sparks.*

*Hygienic measures:*

*Keep away from foodstuffs and drinks.*

**7.2. Conditions for Safe Storage, including any Incompatibilities**

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Requirements for storage areas and containers:*

*Store the product in the original container.*

**2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)**

*Information on fire and explosion protection:*

*Do not store together with oxidizing products.  
Keep away from sources of ignition - do not smoke.  
Do not store together with: acids and strong alkalis.*

*Storage class (VCI):*

*Further Information:*

*The product is slightly hazardous to water. Consider national regulations regarding handling and storage.*

**7.3. Specific End Use(s)**

*Further information:*

*The technical guidelines for the application of this product/mixture should be followed.*

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**8. Exposure Controls/Personal Protection**

**8.1. Parameters to be Controlled**

*Parameters to be controlled (DE):*

*TRGS 900*

*Ethyl acetate (141-78-6): 3000 mg/m<sup>3</sup>, 800 ppm (STEL); 1500 mg/m<sup>3</sup>; 400 ppm (TWA)*

*Ethanol (64-17-5): 1920 mg/m<sup>3</sup>, 1000 ppm (STEL); 960 mg/m<sup>3</sup>, 500 ppm (TWA)*

*Vinyl acetate, CAS 108-05-4, EINECS No. 203-545-4*

*Parameters to be controlled:*

*Ethyl acetate (141-78-6): EH40 (UK): 1460 mg/m<sup>3</sup>, 400 ppm (STEL); 730 mg/m<sup>3</sup>, 200 ppm (TWA); VLEP/GWBB (BE): 1461 mg/m<sup>3</sup>, 400 ppm (TWA); VLEP (FR): 1400 mg/m<sup>3</sup>, 400 ppm (TWA)*

*Ethanol (64-17-5): EH40 (UK): 1920 mg/m<sup>3</sup>, 1000 ppm (TWA); VLEP/GWBB (BE): 1907 mg/m<sup>3</sup>, 1000 ppm (TWA); VLEP (FR): 9500 mg/m<sup>3</sup>, 5000 ppm (STEL); 1900 mg/m<sup>3</sup>, 1000 ppm (TWA); MAC (NL): 1900 mg/m<sup>3</sup> (STEL), 260 mg/m<sup>3</sup> (TWA)*

*Vinyl acetate (108-05-4): IOELV (EU): 35.2 mg/m<sup>3</sup>, 10 ppm (STEL); 17.6 mg/m<sup>3</sup>, 5 ppm (TWA); TLV (USA, IT, GR): 35.2 mg/m<sup>3</sup>, 10 ppm (STEL); 17.6 mg/m<sup>3</sup>, 5 ppm (TWA); MAC (NL): 36 mg/m<sup>3</sup> (STEL); 18 mg/m<sup>3</sup> (TWA); VLEP (FR): 35.2 mg/m<sup>3</sup>, 10 ppm (STEL); 35.2 mg/m<sup>3</sup>, 10 ppm (STEL)*

*Derived No-Effect Level (DNEL):*

*Ethyl acetate (141-78-6):*

*1468 mg/m<sup>3</sup> (worker, inhalation, short-term exposition - systemic and local effect)*

*63 mg/m<sup>3</sup> (worker, skin contact, long-term exposition - systemic)*

*734 mg/m<sup>3</sup> (worker, inhalation, long-term exposition - systemic and local effects)*

*734 mg/m<sup>3</sup> (consumer, inhalation, long-term exposition - systemic and local effects)*

*37 mg/m<sup>3</sup> (consumer, skin contact, long-term exposition - systemic)*

*367 mg/m<sup>3</sup> (consumer, inhalation, long-term exposition - systemic and local effect)*

**2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)**

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4.5 mg/m<sup>3</sup> (consumer, swallowing, long-term exposition - systemic)  
Ethanol (CAS 64-17-5):  
1900 mg/m<sup>3</sup> (worker, inhalation, short-term exposition - local effect)  
343 mg/kg kg/d (worker, skin contact, long-term exposition - systemic)  
950 mg/m<sup>3</sup> (worker, inhalation, long-term exposition - systemic); (consumer, inhalation; short-term exposition - local effect)  
206 mg/kg kg/d (consumer, skin contact, long-term exposition - systemic)  
114 mg/kg (consumer, inhalation, long-term exposition - systemic)  
87 mg/kg kg/d (consumer, swallowing, long-term exposition - systemic)  
Vinyl acetate (108-05-4):  
35.2 mg/m<sup>3</sup> (worker, inhalation, short-term exposition - systemic and local effect)  
0.42 mg/m<sup>3</sup> (worker, skin contact, long-term exposition - systemic)  
17.6 mg/m<sup>3</sup> (worker, inhalation, long-term exposition - systemic and local effects)

*Predicted No-Effect Concentration (PNEC):*

*Ethyl acetate:*  
Fresh water: 0.24 mg/l  
Seawater: 0.024 mg/l  
Fresh water sediment: 1.15 mg/kg  
Seawater sediment: 0.115 mg/kg  
Soil: 0.148 mg/kg  
Sewage treatment system (STP): 650 mg/l  
Intermittent release: 1.65 mg/l  
Oral: 200 mg/kg  
*Ethanol (CAS 64-17-5):*  
Fresh water: 0.96 mg/l  
Seawater: 0.79 mg/l  
Fresh water sediment: 3.6 mg/kg  
Seawater sediment: 2.9 mg/kg  
Soil: 0.63 mg/kg dwt  
Sewage treatment system (STP): 580 mg/l  
Oral: 720 mg/kg  
Intermittent release: 2.75 mg/l  
*Vinyl acetate:*  
Fresh water: 0.016 mg/l  
Seawater: 0.0016 mg/l  
Water: 0.126 mg/l  
Fresh water sediment: 0.067 mg/kg  
Seawater sediment: 0.0067 mg/kg  
Soil: 0,0035 mg/kg  
Sewage treatment system (STP): 6 mg/l

*Additional Information:*

**2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)**

Page 8

Revised edition: 27.05.2015

Version: 1.2

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**8.2. Exposure Controls***Technical protective measures:**Ensure adequate ventilation, especially in confined areas.**Protect from electrostatic charging, this mixture contains an organic solvent.**Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.**Personal Protection**General protective measures:**Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.**Avoid contact with skin, eyes and clothing.**Wash contaminated clothes before reuse.**Respiratory protection:**Required in case of insufficient ventilation.**Respiratory protection with steam filter (EN 141).**Hand protection:**Protective gloves (EN 374)**Protective gloves should be changed regularly, especially after intensive contact with the product.**Protective glove material:**Butyl rubber (480 min; 0.5 mm).**Eye protection:**Safety glasses with protective shields (EN 166).**Body protection:**Environmental precautions:**Prevent contamination of open water ways and sewage system.  
Avoid contamination of ground water.***9. Physical and Chemical Properties****9.1. Information on Basic Physical and Chemical Properties***Form: highly viscous liquid**Color: colorless**Odor: ester-like**Odor threshold: 0.006-0.686 µm (Ethyl acetate)**pH-Value: not determined**Melting temperature: not determined**Boiling temperature: 73.5°C**Flash point: -10°C**Evaporation rate: 4.5 (Ethyl acetate)*

next page: 8



# Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

## 2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)

Page 9

Revised edition: 27.05.2015

Version: 1.2

Printed: 07.10.2016

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*Flammability (solid, gas):*

*Highly inflammable*

*Upper explosion limit:*

*11.5 Vol.% (Ethyl acetate)*

*Lower explosion limit:*

*2.2 Vol.% (Ethyl acetate)*

*Vapor pressure:*

*98.3 hPa (20°C; Ethyl acetate)*

*Vapor density:*

*No information available.*

*Density:*

*not determined*

*Solubility in water:*

*insoluble (20°C)*

*Coefficient of variation (n-Octanol/Water):*

*0.68 logPow (Ethyl acetate)*

*Auto-ignition temperature:*

*not applicable*

*Decomposition temperature:*

*not determined*

*Viscosity, dynamic:*

*9000 mPa.s (20°C)*

*Explosive properties:*

*not applicable*

*Oxidizing properties:*

*no information available*

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*No data available.*

*Other information:*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*No decomposition if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Reacts with acids, bases and oxidizing agents.*

**2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)**

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**10.4. Conditions to Avoid**

*Conditions to avoid:*

*Avoid contact with heat, sparks and open fire.  
Protect from frost.*

*Thermal decomposition:*

**10.5. Incompatible Materials**

*Strong acids, bases and oxidizing agents.*

**10.6. Hazardous Decomposition Products**

*Risk of ignition.  
In case of fire: formation of toxic decomposition products.  
Carbon monoxide and dioxide, fumes and irritant gases.*

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**10.7. Further Information**

**11. Toxicological Information**

**11.1. Information on Toxicological Effects**

*Acute Toxicity*

*LD50, oral:*

*Ethyl acetate (141-78-6): 4934 mg/kg (rabbit)  
Ethanol (64-17-5): 10470 mg/kg (rat; OECD 401)  
Vinyl acetate (108-05-4): 3500 mg/kg (rat)*

*LD50, dermal:*

*Ethyl acetate (141-78-6): 20000 mg/kg (rabbit)  
Vinyl acetate (108-05-4): 7440 mg/kg (rabbit)*

*LC50, inhalation:*

*Ethyl acetat (141-78-6): > 22.5 mg/kg (rat)  
Ethanol (64-17-5): 117 mg/kg (rat; OECD 403)  
Vinyl acetate (108-05-4): 15.8 mg/kg (4h, rat)*

*Primary effects*

*Irritant effect on skin:*

*Ethyl acetate (141-78-6): no skin irritation.  
Ethanol (64-17-5): no skin irritation (OECD 404)  
Vinyl acetate (108-05-4): no skin irritation (OECD 404)*

*Irritant effect on eyes:*

*Ethyl acetate (141-78-6): may irritate eyes.  
Ethanol (64-17-5): can irritate eyes (OECD 405)  
Vinyl acetate (108-05-4): no irritant effect*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*Ethyl acetate (141-78-6): not sensitizing (guinea pig; OECD 406).  
Ethanol (64-17-5): not sensitizing (OECD 429)*

**2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)**

*Vinyl acetate (108-05-4): not sensitizing*

*Mutagenicity:*

*Ethyl acetate (141-78-6): In vivo genetic-toxicity: micronucleus negative (hamster); In vitro genetic-toxicity: Ames-Test negative (OECD 471)*

*Ethanol (64-17-5): In vivo genetic-toxicity: no mutagenic effects (OECD 476); In vitro genetic-toxicity: no mutagenic effects (mouse, OECD 478)*

*Vinyl acetate (108-05-4): In vivo genetic-toxicity: no mutagenic effect; In vitro genetic-toxicity: Ames-Test negative (OECD 471)*

*Reproductive toxicity:*

*Ethyl acetate (141-78-6): no negative effects*

*Ethanol (64-17-5): The classification criteria are not met (mouse; OECD 416).*

*Vinyl acetate (108-05-4): no negative effects*

*Cancerogenicity:*

*Ethyl acetate (141-78-6): The classification criteria are not met.*

*Ethanol (64-17-5): The classification criteria are not met.*

*Vinyl acetate (108-05-4): Can probably cause cancer (oral, rat)*

*Teratogenicity:*

*Vinyl acetate (108-05-4): The classification criteria are not met.*

*Specific target organ toxicity (STOT):*

*Ethyl acetate (141-78-6): Single exposure: may cause drowsiness or dizziness.*

*Vinyl acetate (108-05-4): Single exposure: may cause respiratory irritation.*

*Additional toxicological information:*

**12. Ecological Information**

**12.1. Aquatic Toxicity**

*Fish toxicity:*

*Ethyl acetate: LC50: 220 mg/l (96h; Pimephales promelas); NOEC: < 9.65 mg/l*

*Ethanol: LC50: 14.2 mg/l (96h; Pimephales promelas)*

*Vinyl acetate: NOEC: 0,16 mg/l (Pimephales promelas)*

*Daphnia toxicity:*

*Ethyl acetate: EC50: 165 mg/l (48h; Daphnia magna); Chronic: 2.4 mg/l*

*Ethanol: EC50: 5012 mg/l (48h; Daphnia magna)*

*Vinyl acetate: EC50: 12.6 mg/l (48h; Daphnia magna)*

*Bacteria toxicity:*

*Vinyl acetate: 6 mg/l (16h; Pseudomonas putida)*

*Algae toxicity:*

*Ethyl acetate: EC50: 5600 mg/l (48h, Scenedesmus subspicatus)*

*Ethanol: EC50: 675 mg/l (72h, Chlorella vulgaris)*

*Vinyl acetate: EC50: 12.7 mg/l (72h, Pseudokirchneriella)*

# Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

deffner & Johann

## 2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)

Page 12

Revised edition: 27.05.2015

Version: 1.2

Printed: 07.10.2016

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*subcapitata)*

### 12. 2. Persistency and Degradability

*Ethyl acetate: readily biodegradable*  
*Ethanol: readily biodegradable (84 %, 20d).*  
*Vinyl acetate: readily biodegradable*

### 12. 3. Bioaccumulation

*Ethyl acetate: no bioaccumulation*  
*Ethanol: log Kow -0.3, BCF 0.66. No bioaccumulation.*  
*Vinyl acetate: no bioaccumulation*

### 12. 4. Mobility

*Ethyl acetate: not expected to adsorb on soil.*  
*Ethanol: the product is mobile in aqueous environment. Not expected to adsorb on soil.*  
*Vinyl acetate: not expected to adsorb on soil.*

### 12. 5. Results of PBT- und vPvP Assessment

*The contents of the preparation do not comply with the criteria for the classification as PBT or vPvB.*

### 12. 6. Other Adverse Effects

*Water hazard class:*

*1 (German Regulation) (Assessment by list): slightly hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Not considered to be environmentally harmful.*  
*No special effects or hazards known.*

*AOX Value:*

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## 13. Disposal Considerations

### 13. 1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Packaging may be disposed of in the same manner as the product.*

*Waste Code No.:*

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## 14. Transport Information

### 14. 1. UN Number

*ADR, IMDG, IATA*

*1173*

### 14. 2. UN Proper Shipping Name

*ADR/RID:*

*ETHYLACETAT*

*IMDG/IATA:*

*ETHYL ACETATE*

### 14. 3. Transport Hazard Classes

*ADR Class:*

*3*

next page: 12

# Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

deffner & Johann

## 2510 000 Polyvinyl Acetate (PVAC, in 60 % Ethyl Acetate)

Page 13

Revised edition: 27.05.2015

Version: 1.2

Printed: 07.10.2016

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	<i>Hazard no.:</i>	3
	<i>Classification code:</i>	F1
	<i>Tunnel no.:</i>	D/E
	<i>IMDG Class (sea):</i>	3
	<i>Hazard no.:</i>	3
	<i>EmS No.:</i>	F-E, S-D
	<i>IATA Class:</i>	3
	<i>Hazard no.:</i>	3
<b>14. 4.</b>	<b>Packaging Group</b>	
	<i>ADR/RID:</i>	II
	<i>IMDG:</i>	II
	<i>IATA:</i>	II
<b>14. 5.</b>	<b>Environmental Hazards</b>	
		None
<b>14. 6.</b>	<b>Special Precautions for User</b>	
		Dangerous goods
<b>14. 7.</b>	<b>Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code</b>	
		not applicable
<b>14. 8.</b>	<b>Further Information</b>	
<b>15.</b>	<b>Regulatory Information</b>	
<b>15. 1.</b>	<b>Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture</b>	
	<i>Water hazard class:</i>	1, slightly hazardous for water (German Regulation, Assessment by list)
	<i>Local regulations on chemical accidents:</i>	
	<i>Employment restrictions:</i>	
	<i>Restriction and prohibition of application:</i>	
	<i>Technical instructions on air quality:</i>	
<b>15. 2.</b>	<b>Chemical Safety Assessment</b>	
		This product contains substances which have been pre-registered according to the REACH Regulation (EC) 1907/2006.
<b>15. 3.</b>	<b>Further Information</b>	
<b>16.</b>	<b>Other Information</b>	
		This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.