

	Vivacolor Bond		
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SECTION 1: Identification of t	he substance/mixture and of the comp	any/undertaking	
1.1. Product identifier			
Vivacolor Bond			
	ne substance or mixture and uses advised	<u>against</u>	
Use of the substance/mixture			
Processing aid			
1.3. Details of the supplier of the			
Company name:	Jentner Plating Technology GmbH		
Street:	Johann-Staib-Strasse 2		
Place:	D-75179 Pforzheim		
Telephone:	+49 (0)7231 418094 0	Telefax: +49 (0)7231 418094	4 77
e-mail:	info@jentner.de		
Contact person:	Department of Chemistry		
Internet:	www.jentner.de	anaity of Fusikuum	
Responsible Department:	Poison Information Center of the Unive		
1.4. Emergency telephone	0049 (0)761 19240 - 24 h german and	english	
<u>number:</u>			
SECTION 2: Hazards identification	ation		
2.1. Classification of the substan	ce or mixture		
Regulation (EC) No. 1272/2008			
Hazard categories:			
Acute toxicity: Acute Tox. 4			
Acute toxicity: Acute Tox. 4			
Skin corrosion/irritation: Ski			
Serious eye damage/eye ir	ritation: Eye Dam. 1		

Toxic to aquatic life with long lasting effects. 2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard Statements:

Causes skin irritation.

Hazard components for labelling

N,N-Dimethylacrylamid 2,2-Dimethoxy-1,2-diphenylethan-1-on diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2

Reproductive toxicity: Repr. 2

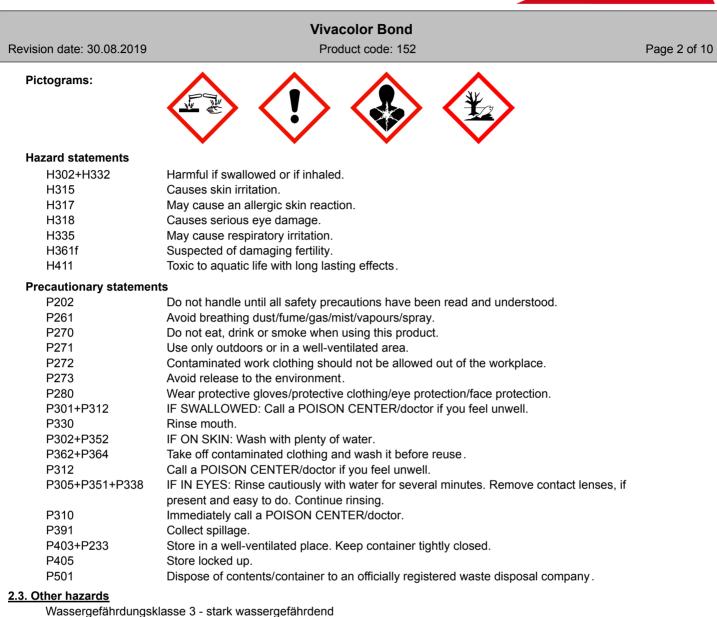
Harmful if swallowed or if inhaled.

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of damaging fertility.

Signal word: Danger



according to Regulation (EC) No 1907/2006



SECTION 3: Composition/information on ingredients

3.2. Mixtures



according to Regulation (EC) No 1907/2006

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Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	•	•	
5888-33-5	exo-1,7,7-Trimethylbicycl	25-50 %		
	227-561-6			
	Skin Irrit. 2, Eye Irrit. 2, S	TOT SE 3, Aquatic Chronic 2; H31	5 H319 H335 H411	
2680-03-7	-7 N,N-Dimethylacrylamid		10-25 %	
	220-237-5			
	Acute Tox. 3, Acute Tox. 3	3, Acute Tox. 4, Eye Irrit. 2; H331 H	I311 H302 H319	
24650-42-8	2,2-Dimethoxy-1,2-diphenylethan-1-on		2,5-10 %	
	246-386-6			
	Skin Sens. 1, Aquatic Acu	ite 1, Aquatic Chronic 1; H317 H4	00 H410	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		2,5-10 %	
	278-355-8	015-203-00-X		
	Repr. 2; H361f	•	•	
2530-83-8	[3-(2,3-epoxypropoxy)pro	2,5-10 %		
	219-784-2			
	Eye Dam. 1; H318			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical advice/attention.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Call a physician in any case!

4.2. Most important symptoms and effects, both acute and delayed

Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2).Foam.Extinguishing powder.



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Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow water used to extinguish fire to enter drains or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from unprotected people. Keep upwind.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.

Further information on handling

Ensure sufficient ventilation when re-packing damaged packages.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Only use containers specifically approved for the substance/product. Handle and open container with care.

Further information on storage conditions

Store in a cool dry place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls



Appropriate engineering controls

Technical ventilation of workplace

Protective and hygiene measures

General Precautions for safe handling of chemicals. Do not eat, drink, smoke or sneeze at the workplace. Avoid contact with skin, eyes and clothes.



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Eye/face protection

Wear suitable protective clothing and eye/face protection.

Hand protection

The material of the gloves should be enough tight and firm against the used substance. After cleaning apply high-fat content skin care cream.

Skin protection

According to danger wear tight, adequate long apron and boots or suitable chemical protection suit.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical an	id chemical properties	
Physical state:	liquid	
Colour:	whitish	
Odour:	characteristic	
pH-Value:		nicht anwendbar0
Changes in the physical state		
Melting point:		not determined
Initial boiling point and boiling range	e:	> 93 °C
Sublimation point:		not determined
Flash point:		77 °C
Explosive properties not explosive.		
Ignition temperature:		not determined
Oxidizing properties Not oxidising.		
Density:		1,4 g/cm³
Water solubility:		unlöslich
Solubility in other solvents not determined		
Flow time:		Daten nicht verfügbar0
Solvent separation test:		not determined
9.2. Other information		
Solid content:		5,8 %

SECTION 10: Stability and reactivity

10.2. Chemical stability

Stable under normal temperature and compression conditions. Light sensitive.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.5. Incompatible materials

Alkalis (alkalis), concentrated.



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Oxidizing agents, strong. Strong acid

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed. Harmful if inhaled. Harmful if swallowed or if inhaled.

ATEmix calculated

ATE (oral) 1580,0 mg/kg; ATE (inhalation vapour) 15,00 mg/l; ATE (inhalation aerosol) 2,500 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
5888-33-5	exo-1,7,7-Trimethylbicyc	exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-ylacrylat					
	oral	LD50 mg/kg	4890	Rat	Gestis		
	dermal	LD50 mg/kg	>5000	Rabbit	Gestis		
2680-03-7	N,N-Dimethylacrylamid						
	oral	LD50 mg/kg	316	Rat	Gestis		
	dermal	LD50 mg/kg	519	Rabbit	Gestis		
	inhalation vapour	ATE	3 mg/l				
	inhalation aerosol	ATE	0,5 mg/l				
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane						
	oral	LD50 mg/kg	24200	Rat			
	dermal	LD50 mg/kg	4250	Rabbit			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (2,2-Dimethoxy-1,2-diphenylethan-1-on)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. (diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-ylacrylat)

STOT-repeated exposure

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.



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Aspiration hazard

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.2. Persistence and degradability

This information is not available.

12.3. Bioaccumulative potential

This information is not available.

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

This information is not available.

12.6. Other adverse effects

This information is not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of this material and its container to hazardous or special waste collection point.

Waste disposal number of waste from residues/unused products

110198 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY; wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising); other wastes containing hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

UN 3082 14.1. UN number: 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylat, Ethanone, 2,2-dimethoxy-1,2-diphenyl) 14.3. Transport hazard class(es): 9 Ш 14.4. Packing group: Hazard label: 9 Classification code: M6 **Special Provisions:** 274 335 601 Limited quantity: 5 L Excepted quantity: E1 Transport category: 3 Hazard No: 90 Tunnel restriction code: Е

Inland waterways transport (ADN)

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<u>14.1. UN number:</u>	UN 3082	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylat, Ethanone, 2,2-dimethoxy-1,2-diphenyl)	
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	
Hazard label:	9	
Classification code:	M6	
Special Provisions:	274 335 601	
Limited quantity:	5 L	
Excepted quantity:	E1	
Marine transport (IMDG)		
14.1. UN number:		
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate, Ethanone, 2,2-dimethoxy-1,2-diphenyl)	
<u>14.3. Transport hazard class(es):</u>	9	
14.4. Packing group:		
Hazard label:	9	
Special Provisions:	274, 335	
Limited quantity:	5 L	
Excepted quantity: EmS:	E1 F-A, S-F	
Air transport (ICAO-TI/IATA-DGR)	r-A, 3-r	
<u>14.1. UN number:</u>	UN 3082	
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornylacrylate, Ethanone, 2,2-dimethoxy-1,2-diphenyl)	
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	
Hazard label:	9	
Special Provisions:	A97 A158	
Special Provisions: Limited quantity Passenger:	30 kg G	
Passenger LQ:	Y964	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	964	
IATA-max. quantity - Passenger:	450 L	
IATA-packing instructions - Cargo:	964	
IATA-max. quantity - Cargo:	450 L	
14.5. Environmental hazards		

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ENVIRONMENTALLY HAZARDOUS: ves

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Water contaminating class (D):

3 - highly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361f	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)