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Product identification : Preparation of reactive resins

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## 2. HAZARDOUS INGREDIENTS

Ingredient	CAS-Nr.	Concentration [%]	MAK-value [ppm]	Symbol	R-phrase (for 100%)
Epoxy resin, solid, 700<mw<1000	25068-38-6	20 ... 50	n.b.	Xi	36/38-43
TMP-Triacrylate	15625-89-5	10 ... 20	n.b.	Xi	36/38-43
Phenylketone	7473-98-5	1 ... 5	n.b.	Xn N	22-50/53
Hexanedioldiacrylate	13048-33-4	20 ... 50	n.b.	Xi	36/38-43
Pentaerythritolacrylate	3524-68-3	1 ... 5	n.b.	Xi	36/38-43
Acrylate	n.b.	10 ... 20	n.b.	Xi	36/37/38
TPGDA	42978-66-5	1 ... 5	n.b.	Xi N	36/37/38-43-51/53
Phosphin oxide	75980-60-8	1 ... 5	n.b.	Xn N	51/53-62

## 3. HAZARDS IDENTIFICATION

Human health (See also section #15)

- Inhalation : -
- Skincontact : Irritation by prolonged contact. sensibilisation possible.
- Eyecontact : Irritation by direct contact.
- Swallowing : Not known.

Environment : Harmful for aquatic environment. In case of fire may be formed: carbonmonoxide/carbondioxide

## 4. FIRST AID MEASURES

- Inhalation : -
- Skincontact : Dab with soft tissue and wash with plenty of water and soap. Do not use any organic solvent.
- Eyecontact : Immediately rinse with plenty of water, keep eyelid lifted. Notify physician of fotochemical reaction.
- Swallowing : on vomiting lie person on their side and keep respiratory tract free. See physician. Do not induce vomiting.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, carbon dioxide, waterspray Unsuitable media: waterjet

Hint : Do not allow extinguishing agent to soak into soil. Take measures to collect contaminated firefighting agents  
Do not breathe vapours/fumes - use self-contained breathing apparatus

## 6. ACCIDENTAL RELEASE MEASURES

- Person : Avoid contact with skin, eyes and clothes.
- Environment : Prevent material to enter soil, drains or water courses.
- Spill control : Absorb with sand, kieselguhr or other inert material.  
For disposal fill in adequate containers and handle as special waste. See also section #13

## 7. HANDLING AND STORAGE

- Handling : Do not eat or drink at workplace. Be extremely careful when having a sensitive skin
- Storage : keep container well closed after use. Avoid frequent warming above 50 °C.
- Storage : Store in the dark. Guard against the impact of heat and light.  
At elevated temperatures exothermic polymerisation may occur.  
Do not store together with oxidants, strong alkali or strong acids.
- Hints : See also leaflet Nr. 205 of BG Druck und Papier, wiesbaden.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

- Exposure : -
- Respiratory : No special requirements.
- Eyes : when splashes may occur wear splash proof goggles.
- Skin : Apply mild handcream. Use suitable protective gloves. (i.e. neoprene or polyvinyl alcohol)
- General : when handling the product wear usual protective work clothes.

This information is accurate to the best of our knowledge however is furnished without expressed or implied warranty

## 9. PHYSICAL AND CHEMICAL PROPERTIES

pH-value.....	n.a.	Appearance.....	pasteous
Boilingpoint at.....[°C]:	n.b.	odour.....	characteristic
Flashpoint at.....[°C]:	> 100	Shade.....	
Ignitiontemperature at.....[°C]:	n.b.	Supporting fire.....	no
Lower explosion limit.....[vol%]:	n.a.	solubility in water.....	0 % fully soluble components
Upper explosion limit.....[vol%]:	n.a.	Viscosity.....	> 90 sec in DIN-4-cup
vapour pressure.....[mbar]:	1.33	Density.....[g/ml at 20°C]:	ca. 1

## 10. STABILITY AND REACTIVITY

Influence of light (UV) may cause selfignition of unreacted material. The product is combustible  
Elevated temperature, peroxides, alkali and acids can start an exothermic polymerisation.

## 11. TOXICOLOGICAL INFORMATION

Never look into UV-light.

It is possible that direct skin contact may cause skin irritation. The effect will depend on intensity and duration of contact as well as individual disposition. Certain individuals may develop sensitisation or allergic reaction after repeated exposure and have to be moved from the source of contact.

## 12. ECOLOGICAL INFORMATION

Biological degradability exists for some components of the product.  
Do not allow product to enter drains, groundwater or water courses.  
contains: Phenylketone, R22-50/53 + Phosphinnoxide, R51/53-62

## 13. DISPOSAL CONSIDERATIONS

EWcnew: (Used printing inks, containing hazardous material) 08 03 12\* / proposal  
Liquid remainder is special waste. Do not dispose together with normal domestic waste. see local regulations.  
Send via licensed waste handler to dump or incineration in accordance with local regulations.  
collect remainders of ink and waste in a black PE-bag or closed metal container until final disposal.

## 14. TRANSPORT INFORMATION

ADR/RID: UN 3082 UMWELTGEFÄHRDENDER STOFF, FLÜSSIG N.A.G. (Phenylketon), 9, III  
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (phenylketone), 9, UN 3082, III  
IATA: Environmentally hazardous substance, liquid, n.o.s., contains phenylketone, 9, UN 3082, III

## 15. REGULATORY INFORMATION

Flammability.....: No regulation  
contains epoxidic compounds. Follow hints of manufacturer.  
Health risk.....: Xi Irritant Contains: TMP-Triacrylate Hexanediodiacrylate Pentaerythritolacrylate TPGDA  
N Dangerous for the environment  
R-phrases.....: R 36: Irritating to eyes  
R 37: Irritating to respiratory system  
R 38: Irritating to skin  
R 43: May cause sensitization by skin contact (TPGDA)  
R 51: Toxic to aquatic organisms (Phenylketone)  
R 53: May cause long-term adverse effects in the aquatic environment  
S-phrases.....: S 26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice  
S 28: After contact with skin wash immediately with plenty of water and soap  
S 29: Do not empty into drains  
S 35: This material and its container must be disposed of in a safe way

TA-air : 0 % class I 5...10 % class II > 50 % class III WGK (VwVWS): 2

## 16. OTHER INFORMATION

Explanation: n.a. = not applicable n.b. = not known n.m. = not measurable \* = for organic solvents