

ZERO-IN UNIVERSAL

Version 1

Revision date 10.06.2008

Print Date 10.06.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Product name : ZERO-IN UNIVERSAL
Product code : M222300K005000
Use : Photoengraving emulsion

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2. HAZARDS IDENTIFICATION



Hazardous components : Tripropylene glycol diacrylate (tpgda)

R-phrase(s) :

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) :

Avoid contact with skin.

Wear suitable gloves.

Use appropriate container to avoid environmental contamination.

This material and/or its container must be disposed of as hazardous waste.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Photoengraving emulsion

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Hazardous components :

Components	CAS-No.	EEC-No.	Symbol(s)	R-pharse(s)	Concentration [%]
Oligomer-Acrylic Urethane Aliphatic			Xi	R36	>= 7 - < 10
Tripropylene glycol diacrylate (tpgda)	42978-66-5		Xi, N	R43, R36/37/38, R51/53	>= 3 - < 5
Modified acrylate oligomer			Xi	R36	>= 5 - < 7

4. FIRST AID MEASURES

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
Never give anything by mouth to an unconscious person.
- After Inhalation : Remove to fresh air.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
If unconscious place in recovery position and seek medical advice.
- After Skin contact : Take off all contaminated clothing immediately.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Do NOT use solvents or thinners.
Put shower on working place
- After Eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes,
holding the eyelids apart.
Remove contact lenses.
Seek medical advice.
Put eye-washer on working place
- After Ingestion : If accidentally swallowed obtain immediate medical attention.
Keep at rest.
Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Keep containers and surroundings cool with water spray.
- Extinguishing media which must not be used for safety reasons : Do NOT use water jet.

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Specific hazards during fire fighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.
Ventilate the area.
Refer to protective measures listed in sections 7 and 8.
Material can create slippery conditions.

Environmental precautions : Try to prevent the material from entering drains or water courses.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Clean with detergents. Avoid solvents.
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice : Refer to section 15 for specific national regulation.

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7. HANDLING AND STORAGE

Handling

Safe handling advice : Avoid exceeding of the given occupational exposure limits (see section 8).
Use only in area provided with appropriate exhaust ventilation.
Avoid contact with skin, eyes and clothing.
Smoking, eating and drinking should be prohibited in the application area.
Avoid inhalation of vapour or mist.
For personal protection see section 8.
Thoroughly mix before using
After using, store in a well-sealed container

Storage

Requirements for storage areas and containers : Observe label precautions.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store in accordance with the particular national regulations.
Store between 5° an 35°C in a dry, well ventilated place away from source of heat, ignition and direct sunlight.
No smoking.
Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Provide adequate ventilation.

Hand protection : For prolonged or repeated contact use protective gloves.
Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
Skin should be washed after contact.
Wash your hands and put on barrier creams

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Skin should be washed after contact.
Personnel should wear protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

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Flash point : > 63 - 100 °C

Density : 1,06 g/cm³

Viscosity : > 60 s
Transversale section: 6 mm
Method: 2431 '84 (ISO 6)

Solids by weight : 41 %

10. STABILITY AND REACTIVITY

Conditions to avoid : Our products were manufactured in compliance with safety standards to avoid decomposition and degrading under the defined conditions. Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring it.

Hazardous reactions : Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity : Inhalation of airborne droplets may cause irritation of the respiratory tract.

Skin irritation : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin.
The product may be absorbed through the skin.

Note : The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

12. ECOLOGICAL INFORMATION

Further information : The product contains dangerous substances for the environment (see chapter n° 2), The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

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Tripropylene glycol
diacrylate (tpgda)

R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water courses or the soil.
Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

14. TRANSPORT INFORMATION

ADR : Not classified as dangerous in the meaning of transport regulations.

IMDG : Not classified as dangerous in the meaning of transport regulations.

IATA : Not classified as dangerous in the meaning of transport regulations.

15. INFORMATION ABOUT NORMS

Hazardous components which must be listed on the label:

- Tripropylene glycol diacrylate (tpgda)

Symbol(s) : Xi Irritant

R-phrases : R43 May cause sensitization by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : S24 Avoid contact with skin.
S37 Wear suitable gloves.
S57 Use appropriate container to avoid environmental contamination.
S60 This material and/or its container must be disposed of as hazardous waste.

Exceptional labelling of special preparations :

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16. OTHER INFORMATION**Further information**

Oligomer-Acrylic Urethane Aliphatic	R36	Irritating to eyes.
Tripropylene glycol diacrylate (tpgda)	R43 R36/37/38 R51/53	May cause sensitization by skin contact. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Modified acrylate oligomer	R36	Irritating to eyes.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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SDS updated to the last Regulation (EC) No 1907/2006