

SAFETY DATA SHEET

RHO INK WHITE 3

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: RHO INK WHITE 3
PART No.: LTKW00003
SUPPLIER: DURST PHOTOTECHNIK
JULIUS DURST STRASSE 11
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2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EINECS No.	CAS No.	CONTENTS	SYMBOL	RISK (R No.)
MULTIFUNCTIONAL ACRYLATE NOS			10-30 %	Xi	36/38
TRIS(2-HYDROXYETHYL) ISOCYANURATE TRIACRYLATE	254-843-6	40220-08-4	5-10 %	Xi	41
VINYLCAPROLACTAM	218-787-6	2235-00-9	5-10 %	Xn	22, 36
ACRYLIC ACID, MONOALKYL, -ARYL OR -ALKYLARYL (ESTERS OF NOS)			10-30	Xi, N	36/37/38, 51/53

The full text for all R-phrases are shown in section 16.

3 HAZARDS IDENTIFICATION

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

4 FIRST AID MEASURES

INHALATION: Move the exposed person to fresh air at once.
INGESTION: DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Get medical attention.
SKIN: Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
EYES: Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Fire can be extinguished using: Powder, foam or CO2. DO NOT use water if avoidable.
SPECIAL FIRE FIGHTING PROCEDURES: Use water SPRAY only to cool containers! Do not put water on leaked material. Avoid water in straight hose stream; will scatter and spread fire.
UNUSUAL FIRE & EXPLOSION HAZARDS: Generates massive smoke during fire.

6 ACCIDENTAL RELEASE MEASURES



SPILL CLEANUP METHODS: Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Shovel into dry containers. Cover and move the containers. Flush the area with water.

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7 HANDLING AND STORAGE

USAGE PRECAUTIONS:	Avoid inhalation of vapours. Avoid spilling, skin and eye contact.
STORAGE PRECAUTIONS:	Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Protect from light, including direct sun rays. Store separated from: Acids. Alkalies. Oxidising material. Avoid storing for very long periods.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT COMMENTS:	OES = Occupational Exposure Standard.
PROTECTIVE EQUIPMENT:	 
PROCESS CONTROL MEASURES:	Provide eyewash station.
VENTILATION:	All handling to take place in well ventilated area.
RESPIRATORS:	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
PROTECTIVE GLOVES:	Protective gloves and goggles must be used if there is a risk of direct contact or splash. Use protective gloves made of: Multi-layer material (eg 4H, Saranex). Nitrile. Unsuitable materials: Rubber (natural, latex).
EYE PROTECTION:	Wear splash-proof eye goggles to prevent any possibility of eye contact.
OTHER PROTECTION:	Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENIC WORK ROUTINES:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. No eating or drinking while working with this material.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid.	COLOUR:	White.
ODOUR/TASTE:	Characteristic.		
PHYSICAL DATA COMMENTS:	pH value: Not applicable. Product does not dissociate in water.		
SOLUBILITY DESCRIPTION:	Soluble in: Organic solvents (most).		
SOLUBILITY VALUE (g/100g H2O/20°C):	<10		
BOILING POINT (°C):	>100 @ 760mmHg		
SPECIFIC GRAVITY (Water=1):	1.02 - 1.1 @ 25 °C	VAPOUR DENSITY (air=1):	>1
VAPOUR PRESSURE:	<1mmHg @ 25 °C	EVAPORATION RATE:	<0.05(BuAc=1)
VISCOSITY:	10 - 30 cps @ 25 °C	FLASH POINT (°C):	>90
FLASH POINT METHOD:	CC (Closed cup).		

10 STABILITY AND REACTIVITY

STABILITY:	Normally stable. Avoid: Heat, sparks, flames.
CONDITIONS TO AVOID:	Will react violently with: Free radical initiators. Strong oxidising agents. Strong alkalis.
HAZARDOUS POLYMERIZATION:	May polymerize.
POLYMERIZATION DESCRIPTION:	Store in original container to avoid contamination. Avoid alkalis, strong acids and heat.
HAZARDOUS DECOMPOSITION PRODUCTS:	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

TOXIC CONC.- LC50:	No std.
TOXICOLOGICAL INFORMATION:	Acrylate components have irritant properties. Prolonged or repeated contact with skin or mucous membranes may result in irritant symptoms such as redness, blistering or dermatitis. Symptoms may be delayed.
SKIN:	Irritating to skin.
EYES:	Irritating to eyes.

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12 ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

GENERAL/CLEANING: European Waste Catalogue Number (EWC) 08 03 12
DISPOSAL METHODS: Incinerate in suitable combustion chamber. Collect in marked containers and deliver to approved depot. Dispose of in accordance with Local Authority requirements. Dispose of containers as special waste.

14 TRANSPORT INFORMATION

GENERAL: Not regulated.
ROAD:
RAIL:
SEA:
AIR:

15 REGULATORY INFORMATION

LABEL FOR SUPPLY:



IRRITANT

RISK PHRASES: R-36/38 Irritating to eyes and skin.
R-52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES: S-24/25 Avoid contact with skin and eyes.
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-60 This material and its container must be disposed of as hazardous waste.

UK REGULATORY REFERENCES: Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP 3), S.I. 2002 No. 1689.

UK ENVIRONMENTAL LISTINGS: Water Resources Act 1991.
Special Waste Regulations 1996.

EC DIRECTIVES: Dangerous Preparations Directive 1999/45 and its amendments.

APPROVED CODE OF PRACTICE: Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES: Occupational Exposure Limits EH40.
Introduction to Local Exhaust Ventilation HS(G)37.
CHIP for everyone HSG(108).

16 OTHER INFORMATION

INFORMATION SOURCES: Dangerous Properties of Industrial Materials Report, N.Sax et.al.

REVISION DATE: Revision 2, 06-01-2003

REVISION No. /REPLACES SDS ISSUED: Revision 1, 01-08-2002

R-PHRASES (Full Text): R-22 Harmful if swallowed.
R-36 Irritating to eyes.
R-41 Risk of serious damage to eyes.
R-36/37/38 Irritating to eyes, respiratory system and skin.
R-36/38 Irritating to eyes and skin.
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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