

Material Safety Data Sheet

Quick Identifier: Printing Ink 350-BR-4004 (Silver)

RUCO Druckfarben
A.M. Ramp & Co. Gmbh
D-65814 Eppstein/Ts.

Hazard Ratings: Health 2
Flammability 2
Reactivity 0

Section I

Distributors: ITW Imtran. **Information:** Tel: +49-6198-3040 (RUCO)
Address: 39 Shelley Road Tel: 978-372-3443 (Imtran)
City/State/Zip: Haverhill, MA 01835 Fax: 978-372-9817

Person Responsible for Preparation: Dr. H. Nitschke **Date Prepared:** Sept. 1996

Section II Hazardous Ingredients

Hazardous Component(s) (Chemical & Common name(s))	OSHA PEL (ppm)	ACGIH TLV (ppm)	Other Exposure Limits (ppm)	Range (weight-%)	CAS-No.
Butylglycolacetate	-		20 (MAK)	20 - 50	112-07-2
Aliphatic Hydrocarbons	-		200 (MAK)	10 - 20	64742-82-1

The product does not contain any ingredients being classified toxic according to EU regulations

Section III Physical & Chemical Characteristics

Boiling Point 142 °C (288 °F) **Specific Gravity (H₂O = 1)** 1.2 **Vapor Pressure (mbar)** 7.0

Vapor Density Heavier than air (3-4) **VOC (ingredients with vapor pressure > 0.1 mbar)** 581 g/l

Solubility In Water insoluble **Reactivity In Water** none

Appearance & Odor Colored Paste with odor of organic solvents **Melting Point** Unknown

Section IV Fire & Explosion Data

Flash Point 39 °C (102 °F) **Method Used** Closed cup **Flammable Limits** In Air % by Volume **LEL (Lower)** 0.6 **UEL (Upper)** 8.4

Auto-Ignition Temperature 240 °C (464 °F) **Extinguishing Media** Chemical powder, foam, carbon dioxide

Special Fire Fighting Procedures Full protective equipment including self contained breathing apparatus should be used. Foam in large quantities. Cool endangered containers with water.

Unusual Fire & Explosion Hazards Do not inhale fumes or decomposition products. Toxic gases may be generated by burning and thermal decomposition.

Section V Physical Hazards (Reactivity Data)

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continued

Stability	Instable () Stable (X)	Conditions To Avoid
Incompatibility (Materials to Avoid)	Strong oxidizers	
Hazardous Decomposition Products	unknown	
Hazardous Polymerization	May Occur () Will Not Occur (X)	Conditions To Avoid

Section VI Health Hazards

1. Acute Harmful by inhalation or skin contact	2. Chronic May cause skin irritation	
Signs & Symptoms of Exposure In case of overexposure: Dizzy feeling, headache, reddening of the skin, irritation of the eyes.		
Medical Conditions Generally Aggravated By Exposure	Skin Allergies	
Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program ()Yes (X)No I.A.R.C. Monographs ()Yes (X)No	OSHA ()Yes (X)No
Emergency & First Aid Procedures	Routes of Entry: Inhalation Fresh air supply. Eyes Rinse immediately with plenty of water. See a physician for medical treatment. Skin Wash immediately with soap and water. Ingestion Call medical assistance.	

Section VII Special Precautions & Spill/Leak Procedures

Precautions To Be Taken In Handling & Storage	Use only with skin and eye protection. Keep away from ignition sources. Avoid contact with skin, eyes and mucous membranes. Do not eat, drink or smoke during handling. Do not empty into drains.
Steps To Be Taken In Case Material Is Released Or Spilled	Remove sources of ignition and ventilate polluted area. Take up remnants with liquid-binding material like sand, kieseguhr, etc. All spills should be cleaned up immediately.
Waste Disposal Methods (Consult Federal, State & Local Regulations)	Follow federal, state and local regulations to dispose of or incinerate waste material.

Section VIII Special Protection Information/Control Measures

Respiratory Protection (Specific Type)	Use sufficient ventilation to keep vapor concentration below TLV-value.			
Ventilation	Local Exhaust (yes)	Mechanical (general)	Special ---	Other ---
Protective Gloves	Chemical resistant gloves (rubber)			
Eye Protection	Chemical resistant and splash-proof safety goggles			
Other Protective Clothing or Equipment	none			
Work/Hygienic Practices	Do not eat, drink or smoke during handling. Remove contaminated clothing.			

The information contained herein is based on technical data believed to be reliable. However, since the conditions under which this information may be applied are beyond our control, we can assume no liability for results of its application.