

## Material Safety Data Sheet

### No. 230 Black Actinic Ink for Writing

Chemical Family: Does not apply  
Hazard Classification: (99) Not Applicable

Water	28.99%
Resin	36.23%
Pigment	34.78%

#### *Physical Data*

Boiling Point	212 <sup>0</sup> F	at 760.00 mm Hg
Vapour Pressure	760 mm Hg	at 100 <sup>0</sup> C
Vapour Density	(Air=1)	1
Specific Gravity	(H <sub>2</sub> O=1)	Does not apply
Percent Volatile		28.99%
Evaporation Rate	Depend on relative humidity	
Solubility in water, % by weight	100% in liquid form, Insoluble when dry, on properly applied surface for marking.	
Appearance and odour:	Black liquid, characteristic odour.	

#### *Fire and Explosion Data*

Flash point:	Does not flash
Flammable Limits in air, % by volume:	Not applicable
Extinguishing Media:	Not applicable

Hazardous Decomposition Products: None

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: None

#### *Health Hazard Data*

Threshold Limit Value: Not established

Effects of Overexposure: For Product

Eyes: Can cause severe irritation, redness, tearing, blurred vision.

Skin: By nature of product, none expected; however, all industrial chemicals should be handled with caution to avoid overexposure.

Breathing: By nature of product, none expected; however, all industrial chemicals should be handled with caution to avoid overexposure.

Swallowing: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea.

First Aid:

If on Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

If in Eyes: Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.

If Swallowed: Give two glasses of water; induce vomiting immediately by sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

If Breathed: None should be needed.

#### ***Reactivity Data***

Hazardous Polymerization: Cannot occur.

Stability: Stable

Incompatibility: None known

#### ***Spill or Leak Procedures***

Steps to be taken if material is released or spilled:

Small spill: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Large spill: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shovelled into containers.

Waste disposal method:

Small spill: Allow volatile portion to evaporate in hood. Allow enough time for vapours to completely clear hood duct work. Dispose of remaining material by applicable regulations.

Large spill: Destroy by liquid incineration. Contaminated absorbent may be deposited in a landfill by local, state and federal regulations.

### ***Protective Equipment to be Used***

Respiratory Protection: If TLV of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.

Ventilation: Provide enough mechanical (general and local exhaust) ventilation to maintain exposure below TLV(s).

Protective Gloves: Wear resistant gloves such as: Butyl Rubber

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your safety equipment supplier).

Other Protective Equipment: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

### ***Special Precautions or Other Comments***

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapour, liquid, and solid), all hazard precautions given in the data sheet must be observed.

The information accumulated herein is believed to be accurate. Recipients are advised to confirm before need that the information is current, applicable and suitable to their circumstances.

The above is the complete information known on this material. If you do not find a particular heading that you believe should exist on the Material Safety Data Sheet, you may consider that for that heading the response is "no additional information available" instead of considering it a blank response.