R.M. NUMBER 50006015

MATERIAL SAFETY DATA SHEET

NFPA DESIGNATION 704

HAZARD RATING

4=Extreme
3=High
2=Moderate
1=Slight
0=Insignificant

CROWN

INDUSTRIAL PRODUCTS CO., INC.
HEBRON, IL. 60034 PHONE 815/648-2424

I IDENTIFICATION

EMERGENCY NIGHT NUMBER 815-338-2141

CHEMICAL NAME
Mixture

FORMULATION NUMBER
154,028AI

TRADE NAME & PRODUCT NUMBER
Blue Toolmaker's Ink #6015, 6017

DOT IDENTIFICATION NUMBER

SYNONYMS
NA

II PRODUCT AND COMPONENT DATA

COMPONENT(S) CHEMICAL NAME	CAS REGISTRY NO.	%(APPROX,)	ACGIH-TLV TWA (ppm)	ACGIH-TLV STEL	OSHA PEL (ppm)	Listed as a Carcinogen in NTP, IARC or OSHA1910(Z)
Methyl Ethyl Ketone	78-93-3	>70	200	300	200	No
Toluene	108-88-3	1-10	100	150	200	No
Propylene Glycol Methyl Ethyl Ether Acetate	108-65-6	1-10	Not established			No

III PHYSICAL DATA

APPEARANCE AND ODOR
Blue/Ketone Odor

SPECIFIC GRAVITY
>1

BOILING POINT
175°F

VAPOR DENSITY IN AIR
>1

VAPOR PRESSURE
70.6 mmHg @ 20°C

% VOLATILE BY VOLUME
85-90%

EVAPORATION RATE
(Ether = 1) <1

SOLUBILITY IN WATER
Neg.

IV REACTIVITY DATA

STABILITY
Stable

CONDITIONS TO AVOID
Open flames or electrical arcs.

INCOMPATIBILITY (materials to avoid)

Avoied alkaline materials and mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Burning can produce carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION

FLASH POINT (Method used)	FLAMMABLE LIMITS IN AIR	LEL	UEL
28°F T.C.C.		1.8	9.5

EXTINGUISHING AGENTS

Carbon Dioxide, dry chemical, foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

VI TOXICITY AND FIRST AID

EXPOSURE LIMITS:

See Section II for exposure limits of each individual component.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Not established.

ACUTE TOXICITY:

INHALATION: High vapor concentrations may result in dizziness, headaches, or unconsciousness.

INGESTION: Not likely.

EYE CONTACT: May cause irritation. Possible corneal injury.

SKIN CONTACT: Prolonged contact will cause defatting of the skin leading to irritation and dermatitis.

SKIN ABSORPTION: Not likely to be absorbed in toxic amounts.

FIRST AID — CALL A PHYSICIAN

EYES: Flush with water for 15 minutes or until irritation subsides.

SKIN: Remove all contaminated clothing. Wash skin with soap and water.

INHALATION: Remove from exposure immediately. If breathing is stopped or irregular, begin artificial respiration and administer oxygen.

INGESTION: Do NOT induce vomiting. Drink plenty of water.

CHRONIC TOXICITY

CARCINOGENICITY: None

TERATOGENICITY: Not established

MUTAGENICITY: Not established

TARGET ORGAN AFFECTED: Prolonged exposure above the OSHA permissible exposure limits may result in kidney and liver damage.

VII PERSONAL PROTECTION AND CONTROLS

RESPIRATORY PROTECTION

Respiratory protection program should be in accordance with 29 CFR 1910.134.

VENTILATION

Local exhaust is adequate.

SKIN PROTECTION

Gloves: Polyethylene or Neoprene.

EYE PROTECTION

Safety glasses are recommended.

HYGIENE

Wash skin with soap and water.

OTHER CONTROL MEASURES

Protective clothing and equipment: See 29 CFR 1910.133 & 132.

VIII STORAGE AND HANDLING PRECAUTIONS

Keep product containers cool, dry and away from all sources of ignition. Use and store this product with adequate ventilation.

IX SPILL LEAK AND DISPOSAL PRACTICES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate all ignition sources. Ventilate area. Flammable liquid - handling equipment must be grounded to prevent sparking. Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Soak up residue with inert material.

WASTE DISPOSAL METHOD

Care must be taken to dispose of product and/or containers to prevent environmental contamination. They must be disposed of in accordance with the Clean Air Act, the Clean Water Act and any other relevant regulations.

X TRANSPORTATION

DOT HAZARD CLASSIFICATION

ORM-D

PLACARD REQUIRED

None

LABEL REQUIRED

ORM-D

NAME(print) Jeffrey M. Banasek

SIGNATURE Jeffrey M. Banasek

TITLE Chemist

DATE OF LAST REVISION August 22, 1988

This formulation is subject to change without notice. In case of accident, please use the phone number provided.

A HAZARDOUS INGREDIENT IS ONE WHICH MEETS ONE OR MORE OF THE FOLLOWING CRITERIA:

1. It is listed in the annual registry of toxic effects of chemical substances, or is known to be toxic within the parameters that registry, and is present at a level of 1% or greater of the composition, except that chemicals identified as carcinoge under 29 CFR 1910.1200 (d) (4) shall be listed if the concentrations are 0.1% or greater.

2. It has an OSHA established ***PEL or Ceiling Concentration (C) or an American Conference of G ernmental Industrial Hygienist's (ACGIH) TLV or, C, and by the nature of the product or its known use, is likely to becc airborne.

***Permissible Exposure Limits

3. It contributes to one or more of the following hazards to the product: A - Flashpoint below 200° F. (CC), or subject spontaneous heating or decomposition; B - Causes skin burns (DOT); C - Strong oxidizing agent (DOT); D - Subject to hazardous polymerization.

Each hazardous ingredient should be listed by chemical, generic or proprietary name, its level in the product should be expres as 1% or less, 1-10%, 11-30%, 31-50%, 51-70%, or greater than 70%, or by other means if such information is proprietary. Recc mended ACGIH or registry of toxic effects of chemical substances TLV or C values are only listed with appropriate notati where OSHA values are not available.