P. O. Box 380 Amherst, Ohio 44001

MATERIAL SAFETY DATA SHEET

LIQUID POWDER TRACING DYE RED

SECTION I - IDENTIFICATION CHEMICAL NAME..... MIXTURE
TRADE NAME..... LIQUID POWDER TRACING DYE FLUORESCENT RED CHEMICAL FAMILY...... XANTHANE
CHEMICAL FORMULA...... PROPRIETARY PROD. CAS # HAZARDOUS COMPONENTS HAZARDOUS % TLV (Units) NONE AS PER PART 29 CFR 1910.1200 SECTION III - PHYSICAL DATA . ACIDITY..... SECTION V - HEALTH HAZARD DATA THRESHOLD LIMIT VALUE... NOT ESTABLISHED

OVER EXPOSURE EFFECTS... CONTACT WITH EVES MAY RESULT IN SEVERE IRRITATION,
CONTACT WITH SKIN MAY RESULT IN IRRITATION, INGESTION
MAY RESULT IN GASTRIC DISTURBANCES. FIRST AID PROCEDURES.... FLUSH EYES WITH FLOWING WATER AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. WASH AFFECTED SKIN AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IF SWALLOWED, DILUTE WITH WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION. ** NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS . ** HAZARDOUS POLYMERIZATION. DOES NOT OCCUR POLYMERIZATION AVOID..... N/A SECTION VIII - SPECIAL PROTECTION
RESPIRATORY PROTECTION. N/A
VENTILATION. N/A
PROTECTIVE GLOVES. TO PREVENT SKIN CONTACT.
EYE PROTECTION. GOGGLES. MATERIAL SAFETY DATA SHEET EQUIPMENT..... EYE WASH FOUNTAINS SHOULD BE EASILY ACCESSIBLE.
HANDLING AND STORAGE.... KEEP CONTAINER CLOSED. KEEP FROM FREEZING BECTION IX - SPECIAL PRECAUTIONS
HAZARD CLASS... N/A
DOT SHIPPING NAME... COAL TAR DYESTUFF
REPORTABLE QUANTITY (RQ). N/A
UN NUMBER... N/A
N/A
N/A
PACKAGING SIZE... VARIOUS FOOT NOTES

N/A - Not Applicable

This information is furnished without warranty, representation, or license of any kind, except that it is accurate to the best of Norlab's knowledge or obtaned from sources belived by Norlab to be accurate. Norlab does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own test.

P. O. Box 380 Amherst, Ohio 44001 MATERIAL SAFETY DATA SHEET

LIQUID POWDER TRACING DYE VIOLET

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SECTION 1 - IDENTIFICATION
   CHEMICAL FAMILY...... TRIPHENYLMETHANE CHEMICAL FORMULA...... PROPRIETARY
                          SECTION II - HAZARDOUS INGREDIENTS
HAZARDOUS % TLV (Units) PROD. CAS
   HAZARDOUS COMPONENTS
                                                                    PROD. CAS #
                       NONE AS PER PART 29 CFR 1910.1200
                               SECTION III - PHYSICAL DATA
  SECTION IV - FIRE AND EXPLOSION HAZARD DATA
  SECTION V - HEALTH HAZARD DATA
 THRESHOLD LIMIT VALUE.... NOT ESTABLISHED OVER EXPOSURE EFFECTS....
FIRST AID PROCEDURES....
                                            - REACTIVITY DATA
 CHEMICAL STABILITY......
CONDITIONS TO AVOID.....
INCOMPATIBLE MATERIALS...
 DECOMPOSITION PRODUCTS...
 POLYMERIZATION AVOID.....
                        SECTION VII - SPILL OR LEAK PROCEDURE
 FOR SPILL .....
 WASTE DISPOSAL METHOD ....
                            SECTION VIII - SPECIAL PROTECTION
RESPIRATORY PROTECTION...

VENTILATION...

PROTECTIVE GLOVES...

OTHER PROTECTIVE

EQUIPMENT...

EYE WASH FOUNTAINS SHOULD BE EASILY ACCESSIBLE.

HANDLING AND STORAGE...

KEEP CONTAINER CLOSED. KEEP FROM FREEZING.
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N/A - Not Applicable

P. O. Box 380 Amherst, Ohio 44001

 $N/A = Not \cdot Applicable$

MATERIAL SAFETY DATA SHEET

LIQUID POWDER TRACING DYE BLUE

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SECTION 1 - IDENTIFICATION
 CHEMICAL FAMILY...... TRIPHENYLMETHANE
CHEMICAL FORMULA...... 42090 ( COLOR INDEX FORMULA )
 SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS HAZARDOUS % TLV (Units) PROD. CAS #
 HAZARDOUS COMPONENTS
                            NONE AS PER PART 29 CFR 1910.1200
BECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE... NOT ESTABLISHED

OVER EXPOSURE EFFECTS... CONTACT WITH EYES MAY RESULT IN SEVERE IRRITATION.

CONTACT WITH SKIN MAY RESULT IN IRRITATION. INGESTION

MAY RESULT IN GASTRIC DISTURBANCES.
FIRST AID PROCEDURES.... FLUSH EYES WITH FLOWING WATER AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. WASH AFFECTED SKIN AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IF SWALLOWED, DILUTE WITH WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.
                                           ** NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS . **
                                        SECTION VI - REACTIVITY DATA
CHEMICAL STABILITY..... STABLE
CONDITIONS TO AVOID..... N/A
INCOMPATIBLE MATERIALS... UNKNOWN
DECOMPOSITION PRODUCTS... CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN
 HAZARDOUS POLYMERIZATION. DOES NOT OCCUR POLYMERIZATION AVOID.... N/A
 SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION. N/A
VENTILATION. N/A
PROTECTIVE GLOVES. TO PREVENT SKIN CONTACT.
EYE PROTECTION. GOGGLES.

OTHER PROTECTIVE
 EQUIPMENT..... EYE WASH FOUNTAINS SHOULD BE EASILY ACCESSIBLE. HANDLING AND STORAGE.... KEEP CONTAINER CLOSED. KEEP FROM FREEZING
  SECTION IX - SPECIAL PRECAUTIONS
 PACKAGING SIZE..... VARIOUS
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BLUE

P. O. Box 380 Amherst, Ohio 44001 MATERIAL SAFETY DATA SHEET

LIQUID POWDER TRACING DYE ORANGE

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SECTION I - IDENTIFICATION
      CHEMICAL FAMILY..... XANTHENE CHEMICAL FORMULA..... PROPRIETARY
       SECTION II - HAZARDOUS INGREDIENTS
      HAZARDOUS COMPONENTS
                                               HAZARDOUS %
                                                                    TLV (Units)
                                                                                                PROD. CAS #
                                 NONE AS PER PART 29 CFR 1910.1200
        SECTION III - PHYSICAL DATA
    BOILING Point(F)... N/A
FREEZING POINT (F)... 30 ° F.
VOLATILITY/VOL(Z)... N/A
WAPOR PRESSURE (mm Hg)... N/A
VAPOR PENSITY (Air=1)... N/A
VAPOR DENSITY (Air=1)... N/A
SOLUBILITY IN H2O... 100 %
APPEARANCE/DDGR... DARK ORANGE, NO CHARACTERISTIC ODOR
SPECIFIC GRAVITY (H2O=1)... APPROXIMATELY 1
EVAPORATION RATE... N/A
ACIDITY... N/A
   SECTION V - HEALTH HAZARD DATA
  THRESHOLD LIMIT VALUE.... NOT ESTABLISHED
OVER EXPOSURE EFFECTS... CONTACT WITH EYES MAY RESULT IN SEVERE IRRITATION.
CONTACT WITH SKIN MAY RESULT IN IRRITATION. INGESTION
MAY RESULT IN GASTRIC DISTURBANCES.
 FIRST AID PROCEDURES.... FLUSH EYES WITH FLOWING WATER AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. WASH AFFECTED SKIN AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IF SWALLOWED, DILUTE WITH WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.
                                             ** NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS . **
 BECTION VI - REALIZATION......

CHEMICAL STABILITY...... STABLE
CONDITIONS TO AVOID......... N/A
INCOMPATIBLE MATERIALS... UNKNOWN
DECOMPOSITION PRODUCTS... CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGEN
                                        BECTION VI - REACTIVITY DATA
 HAZARDOUS POLYMERIZATION. DOES NOT OCCUR POLYMERIZATION AVOID.... N/A
 SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL SPILLS SHOULD BE CONTAINED AND PLACED IN SUITABLE CONTAINERS.

WASTE DISPOSAL METHOD... DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.
 BECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION... N/A
VENTILATION......N/A
PROTECTIVE GLOVES.....TO PREVENT SKIN CONTACT,
EYE PROTECTION......GOGGLES,
SECTION IX - SPECIAL PRECAUTIONS
NA #..... N/A
PACKAGING SIZE..... VARIOUS
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N/A = Not Applicable

Amherst, Ohio 44001

MATERIAL SAFETY DATA SHEET

LIQUID POWDER TRACING DYE YELLOWGREEN

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BECTION I - IDENTIFICATION
   CHEMICAL FAMILY..... XANTHENE CHEMICAL FORMULA...... 45350
   SECTION 11 - HAZARDOUS INGREDIENTS
                                            HAZARDOUS % TLV (Units)
   HAZARDOUS COMPONENTS
                                                                                              PROD. CAS #
                               NONE AS PER PART 29 CFR 1910.1200
  BECTION III - PHYSICAL DATA

BOILING POINT (F). N/A

FREEZING POINT (F). 30 ° F.

VOLATILITY/VOL(Z). N/A

MELTING POINT. N/A

VAPOR PRESSURE (mm Hg). N/A

VAPOR DENSITY (Air=1) N/A

SOLUBILITY IN 120. 100%

APPEARANCE/ODOR. BROWN, NO CHARACTERISTIC ODOR

SPECIFIC GRAVITY (H2O=1). APPROXIMATELY 1

EVAPORATION RATE. N/A

ACIDITY. N/A
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        SECTION IV - FIRE AND EXPLOSION HAZARD DATA
  SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE... INGESTION IN RATS LD 50-6,800 mg/kg

DVER EXPOSURE EFFECTS... CONTACT WITH EYES MAY RESULT IN SEVERE IRRITATION.

CONTACT WITH SKIN MAY RESULT IN IRRITATION. INGESTION

MAY RESULT IN GASTRIC DISTURBANCES.
FIRST AID PROCEDURES.... FLUSH EYES WITH FLOWING WATER AT LEAST 15 MINUTES. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. WASH AFFECTED SKIN AREAS THOROUGHLY WITH SOAP AND WATER. IF IRRITATION DEVELOPES, CONSULT A PHYSICIAN. REMOVE AND LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. IF SWALLOWED, DILUTE WITH WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.
                                            ** NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS . **
BECTION VI — REACTIVITY DATA

WITH STABLE CONDITIONS TO AVOID..... N/A
INCOMPATIBLE MATERIALS... UNKNOWN
DECOMPOSITION PRODUCTS... CARBON MONOXIDE, CARBON DIOXIDE, AND OXIDES OF NITROGE
 HAZARDOUS POLYMERIZATION. DOES NOT OCCUR POLYMERIZATION AVOID.... N/A
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BECTION VIII — SPECIAL PROTECTION

RESPIRATORY PROTECTION. N/A
VENTILATION. N/A
PENTILATION. N/A
FORDECTIVE GLOVES. TO PREVENT SKIN CONTACT.
EYE PROTECTION. GOGGLES.
OTHER PROTECTIVE
EQUIPMENT. EYE WASH FOUNTAINS SHOULD BE EASILY ACCESSIBLE.
HANDLING AND STORAGE. KEEP CONTAINER CLOSED. KEEP FROM FREEZING
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