



KEYSTONE

MATERIAL SAFETY DATA SHEET

Keystone Aniline Corporation

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24 Hour Emergency Phones

In U.S. Call CHEMTEL 1-800-255-3924
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1-813-248-0585

HMIS RATINGS: HEALTH: 2 FIRE: 1 REACTIVITY: 0 PERSONAL PROTECTION: H

SECTION 1: PRODUCT IDENTIFICATION

Product I.D.: 10240743
Product Name: KEYTRANS BLACK 950
Product Description: Disperse Black Transfer Printing Color
Chemical Family: Anthra-azo-quinolone multiplex
Effective Date: August 25, 2006

SECTION 2: OSHA HAZARDOUS INGREDIENTS

Component	CAS Number	Wt %	OSHA - PEL	ACGIH - TLV	Recommended PEL
DMEA Catalyst	108-01-0	1 - 10%	Not established	Not established	Not applicable
Isopropyl alcohol	67-63-0	.1 - 1%	400 ppm TWA 500 ppm STEL	400 ppm TWA 500 ppm STEL	Not applicable
Styrene acrylic copolymer 99940010	Mixture	10 - 20%	Not established	Not established	Not applicable

Important Notice:

UNPROTECTED CONTACT with Section 2 ingredients may be hazardous based on OSHA 29 CFR 1910.1200 & related appendices, unless noted otherwise for disclosure. Any not listed are confidential, non-hazardous, or below reportable limits. Confidential information is available to medical or emergency personnel. Use ALL PROTECTIVE EQUIPMENT & CLOTHING (Section 8) TO MINIMIZE or ELIMINATE CONTACT. Effects from UNPROTECTED may be unpredictable, depending on individual reactions. End-users are responsible for hazard determination and communication.

SECTION 3: HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW

Emergency Overview:

Harmful if inhaled-Severe eye irritant Moderate skin irritant

Eye Contact:

Depending on degree of UNPROTECTED contact with dust, liquid, splashes, droplets, vapors, aerosols or mists, product may cause MODERATE EYE IRRITATION, pain, redness, stinging sensation, swelling, watering, inflammation, itching, burning feeling and other effects. Heavy or prolonged contact may increase effects to more severe irritation, clouding of cornea or possible damage to eyes. Heated processing of liquids that creates mists or vapors may intensify effects.

Skin Contact:

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Depending on degree of UNPROTECTED exposure, vapors, mists, splashes, aerosols, or dusts of product may cause MODERATE IRRITATION, redness, rash, itching, burning sensation, drying, cracking, pain, inflammation and other effects. Sufficient absorption through skin may cause nausea, headache, discomfort, adding to other exposures. Prolonged or repeated exposure may increase severity. Sensitive or sensitized individuals may have allergic skin reactions with repeated/long-term contact. Repeated exposure to some powdered products may cause some abrasion (wearing away) of skin.

Inhalation:

Depending on degree of exposure, UNPROTECTED inhaling of product vapors, mists, aerosols, or dusts may cause MODERATE IRRITATION of nose, throat, lungs, mucous membranes, headache, dizziness, cough, chest pain, shortness of breath, nausea, mucous production, or other effects. REPEATED OR PROLONGED inhalation may increase effects with reduced pulmonary function, possible chest illness, Central Nervous System effects or other symptoms. Heated processing may worsen effects. Heavy or long-term inhalation of dusts, vapors or mists may be damaging to lungs.

Ingestion:

Depending on amount swallowed, product can cause headache, gastrointestinal irritation, upset stomach, abdominal pain, nausea, vomiting (material aspirated into lungs during vomiting IS A MEDICAL EMERGENCY and may injure lungs), diarrhea, MODERATE IRRITATION of mouth, throat, esophagus, stomach, entire gastrointestinal tract, CNS (Central Nervous System) depression including mental sluggishness, mental confusion, fatigue, weakness, dizziness, drowsiness, faintness, with high dose, severe irritation, and other effects.

Medical Conditions Aggravated by Exposure:

UNPROTECTED or IMPROPERLY PROTECTED contact with vapors, mists, aerosols, splashes or dusts of product by inhalation, eye contact, skin contact or swallowing MAY AGGRAVATE one or more of the following pre-existing medical conditions: Respiratory (breathing related) problems (asthma, allergies, etc.), skin conditions, or disorders, eye conditions or disorders, kidney disorders, liver disorders. Heavy or long-term contact may increase effects. Avoid ALL exposures. Individuals with any of the above-noted conditions should avoid working with chemicals.

Skin Sensitization:

IMPROPER protection from contact with product may cause SKIN SENSITIZATION OR ALLERGIC REACTIONS in some individuals. Effects may include redness, swelling, itching, rash and hives. It may take repeated or prolonged exposure to cause health effects. SENSITIZATION or ALLERGIC REACTIONS ARE UNPREDICTABLE. If symptoms appear, IMMEDIATELY remove person from area of contact, follow Section 4 instructions, GET MEDICAL ATTENTION. Persons known to have or suspected of chemical sensitivity or allergy should not work with chemicals.

Respiratory Sensitization:

Avoid ALL exposures. Persons known to be or suspected of being chemically sensitive or allergic should not work with chemicals. IMPROPERLY protected exposure to product MAY CAUSE RESPIRATORY SENSITIZATION OR ALLERGIC REACTIONS in some individuals. Symptoms may include: Itching watery eyes, swelling of eyelids, sneezing, itchy, runny nose., cough, shortness of breath, asthma-like symptoms such as tight chest, difficult breathing. It may take repeated or prolonged exposure for symptoms of sensitization or allergic reactions to appear. Some may not know they are sensitive until symptoms appear. ALLERGIC & SENSITIZATION REACTIONS CAN BE UNPREDICTABLE. REACTIONS MAY BE LIFE-THREATENING FOR SOME INDIVIDUALS, possibly leading to shock and cardiovascular collapse. If symptoms appear, IMMEDIATELY remove person from contact area, GET MEDICAL HELP and follow Section 4 instructions.

Special Warnings:

None for this material

Unusual Health Hazards:

None for this material

Supplemental Hazard Information:

None at this time

Notes to Physician:

Treat Symptomatically, based on Section 3 Hazard Warnings unless otherwise indicated

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Cancer Information:

Chemical Name	CAS #	WT %	IARC	NTP	OSHA	NIOSH	ACGIH
Isopropyl alcohol	67-63-0	.1 - 1%	Group 3 Unclassifiable as a human carcinogen	NONE	NONE	NONE	NONE

SECTION 4: FIRST AID INSTRUCTIONS

Eye Contact:

Immediately rinse with plenty of water for at least 15 minutes. Get immediate medical attention, as a precaution.

Skin Contact:

Immediately remove contaminated clothing. Wash affected area with soap and rinse with plenty of water. Get medical attention, as a precaution.

Inhalation:

Move person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration, and get emergency medical help immediately. Have this Material Safety Data Sheet available.

Ingestion:

Do not induce vomiting unless directed to do so by emergency medical personnel. Have this Material Safety Data Sheet available.

SECTION 5: FIRE FIGHTING INSTRUCTIONS

Flash Point:

Not applicable

Auto-ignition Temperature:

Not applicable

LEL:

Not applicable

UEL:

Not applicable

Unusual hazards:

None expected

Other Hazards:

None known

Types of Extinguishers:

CO2, dry chemical, foam, water fog or spray depending on type of fire

Fire Fighting Directions:

Wear self-contained breathing equipment and fire-proof clothing. Use water spray to cool fire exposed containers if they cannot be safely moved.

SECTION 6: ACCIDENTAL SPILL OR RELEASE INSTRUCTIONS

Special Precautions:

None known. Follow general precautions shown below.

Reporting:

Check the RQ

Static Discharges:

Take precautionary measures against static discharges when mixing, filling or otherwise dispensing any powders, combustibles, or flammable liquids. Containers should be properly grounded with metal straps, cables or other appropriate means to relieve static electricity build-up.

Environmental Protection:

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Immediately dike liquid spills with inert absorbent material (sand, "Oil Dry" or other commercially available spill absorbent) to contain and soak up liquid. Prevent material from entering floor drains, sewers, or any bodies of water. For powder spills, use sweeping compound, sawdust, or other appropriate material to contain dust. If possible, recover any uncontaminated materials to re-use.

Protective equipment and clothing:

Wear all proper personal protective equipment and clothing to care for spill situation. See section 8 of this MSDS.

Clean up:

After containing liquid spill by diking and soaking up with inert absorbent material, place in labeled container to be sealed for proper and regulated disposal. Only the slightest residue should remain. Try to save uncontaminated material for reuse whenever possible. For powders, use sweeping compound to minimize dust and pick up as much product as possible. Do not allow liquids to seep into drains, sewers, lakes, rivers, etc. Check Sections 1 and 2 for dye description or type. Solvent dye residue may be cleaned by scrubbing with detergent, depending on type. Do not add water to water-soluble dyes. Dye is concentrated. This will increase amount of color to remove. All cleaning or scrubbing liquids used should be absorbed and placed in labeled containers for correct disposal. Call emergency number for assistance if needed.

SECTION 7: HANDLING AND STORAGE**Warnings and Precautions:**

No special precautions anticipated. Wear all PPE in section 8 as a precaution, and avoid physical contact with material.

Personal Protection:

Wear ALL proper personal protective equipment as outlined in section 8 of this MSDS.

Storage & Temperature Conditions:

Keep conditions cool, dry, out of direct sunlight, away from high heat, with at least minimal ventilation. Protect all products containing water from freezing.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Note: Selecting protective equipment & clothing:**

When choosing personal protective equipment and clothing, consider each worker environment, all chemicals being handled, temperature and all other conditions.

Eye protection:

Always wear indirectly vented, splash-proof chemical safety goggles under a clear face-shield. Face shield is not to be used without these goggles.

Skin Protection:

Always wear most impervious gloves such as nitrile or other proper chemical-resistant gloves for the job, along with proper coveralls, rubber or plastic apron, etc. Wash hands before eating, drinking or using restroom. Shower after each shift. Clean contaminated protective equipment and clothing before reusing.

Respiratory Protection:

WHENEVER exposure to product vapors, mists, or aerosols is expected, ALWAYS wear an appropriate NIOSH approved organic vapor/mist air-purifying or air-supplied respirator, with ALL proper filters, as necessary. After each shift, completely clean respirator in compliance with 29 CFR 1910.134.

Eye Washes and Other Protection:

Eye wash stations and drench showers should be located within 100 feet or 10-second walk of the work area per ANSI standard Z358.1-1990.

Ventilation:

Local exhaust should be used to maintain exposure limits below specified amounts recommended by OSHA, NIOSH, or ACGIH and to draw spray, aerosol, vapors, or dusts away from workers and prevent routine inhalation. At least 10 air changes per hour are recommended for good room ventilation.

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Airborne Exposure Limits:

Chemical Name	CAS #	WT %	NIOSH - REL	NIOSH - IDLH	OTHER OEL'S
Isopropyl alcohol	67-63-0	.1 - 1%	400 ppm 980 mg/m3 TWA 500 ppm 1225 mg/m3 STEL	2000 ppm	Not established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

pH:	Not established
% Water Content:	15-30%
% Total Solids / Non-Volatiles:	35-50%
% Total VOC:	Not established
Solvents by weight:	Not applicable / not verified
Boiling Point:	Not established
Color:	Black
Form:	Aqueous liquid
Odor:	Slight ammonia
Freezing/Melting Point:	Not established
Lbs. per gallon:	Not established
Specific Gravity (Liquid):	Not established
Vapor Pressure:	Not established
Water Solubility:	Dispersible
Solvent Solubility:	Test as applicable
Other Properties:	No further data

All Data shown above are typical values, not specifications.

Any quantity of VOC's reported here is calculated based on the U.S. EPA definition. State or local definitions may differ. To request additional Regulatory Compliance Data, call 312-666-2015.

SECTION 10: STABILITY AND REACTIVITY**Stability:**

Product is stable under normal, ambient (controlled) conditions concerning heat, moisture, pressure, ventilation and exposure to incompatible or reactive materials.

Hazardous Polymerization:

Product will not undergo polymerization.

Conditions to Avoid:

High temperatures, oxidizing conditions, incompatibles

Incompatible Materials:

Strong oxidizing agents, reducing agents may destroy color.

Hazardous Decomposition Products:

Oxides of carbon. Heat may yield styrene/acrylic monomers.

Possible Hazard Reactions:

None known

SECTION 11: TOXICOLOGICAL INFORMATION

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Oral LD50 (Rat):	No data currently available
Eye Effects (Rabbit):	No data currently available
Skin Effects (Rabbit):	No data currently available
Mutagenicity:	No data currently available
Inhalation LC50 (Rat):	No data currently available
Skin Sensitization (Guinea Pig):	No data currently available
Respiratory Sensitization:	No data currently available
Additional Toxicity Data:	No data currently available

SECTION 12: ECOLOGICAL DATA

BOD:	No data currently available
COD:	No data currently available
Aquatic Toxicity:	No data currently available
Biodegradability:	No data currently available
Persistence:	No data currently available
Ecotoxicity:	No data currently available
Sewage Treatment:	Undetermined
Other Data:	No additional data is available

SECTION 13: DISPOSAL AND ENVIRONMENTAL CONSIDERATION

Reuse of materials:

Reclaim all uncontaminated material to reuse, recycle or otherwise rework whenever possible.

Contain - Do not release:

Do not release into sewers, water systems, ground systems or ecosystems without proper authorization.

Disposal Methods:

Incinerate, treat, or bury (landfill), after sampling and testing, at facility approved by applicable federal, state, and local authorities.

Empty Containers:

Empty containers may contain residue and/or vapors and should not be reused unless professionally cleaned and reconditioned. Crush if not cleaned, to prevent reuse.

Applicable Regulations: See Section 15 if regulated

Special Instructions: See Section 15 if regulated

SECTION 14: SHIPPING AND TRANSPORTATION INFORMATION

DOT Regulations (Ground):

DOT NOTES: PROTECT FROM FREEZING
NOT REGULATED

IATA Regulations (Air):

IATA NOTES: PROTECT FROM FREEZING
NOT REGULATED

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SECTION 15: REGULATORY INFORMATION

Component	CAS Number	Weight %	Regulatory List
DMEA Catalyst	108-01-0	1 - 10%	14, 15: FL, MA
Isopropyl alcohol	67-63-0	.1 - 1%	13: 1.0% 15: MA, MN, NJ, PA WA

Regulatory List Reference:

NOTE: Regulations only apply when numbers listed below are shown on line(s) above this notation.

Example A: 5, 8 (Indicates chemical is listed as an EPA HAP and a Marine Pollutant)

Example B: 10: D007, 11: 5000 (Indicates chemical is a hazardous waste (Chromium), and is an EHS with RQ of 5000 lbs.)

- 1-Accidental Release Substance
- 2-CERCLA 304 Hazardous Substance (RQ)
- 3-Reserved
- 4-Clean Air Act-Sec. 111 Volatile Organic Compounds (VOC)
- 5-Clean Air Act-Sec. 112 Haz. Air Pollutant (HAP, HAP Code)
- 6-Clean Air Act-Ozone Depleting Chemical (ODC)
- 7-Clean Water Act-RQ
- 8-Clean Water Act-Priority Pollutant (PP) RQ
- 9-Marine Pollutant (MP)
- 10-PSM Highly Hazardous Chemical
- 11-RCRA Hazardous Waste (RCRA Code)
- 12-SARA 302 Extremely Hazardous Substance (EHS) (RQ)
- 13-SARA 313 Toxic Release Inventory (TRI) (TR Conc., TR Threshold)
- 14-SOCMI Chemical
- 15-State Lists
 - CA-California Proposition 65
 - NJ-New Jersey RTK Hazardous Substance List
 - NJ-New Jersey TCPA Extremely Hazardous Substance List
- 16-Supplemental regulatory information (SRI)

List revised 12/29/05 wln (Current list is not applicable to previously issued MSDS')

SARA 311/312 Hazard Categories:

Immediate / Acute Health Hazard:	YES
Chronic / Delayed Hazard:	NO
Fire Hazard:	NO
Sudden Release of Pressure Hazard:	NO
Reactivity Hazard:	NO

NATIONAL CHEMICAL INVENTORIES:

AICS (Australia):	Not yet determined
ASIA-PAC (Asia-Pacific):	Not yet determined
DSL (Canada):	Not yet determined
ECL (Korea):	Not yet determined
EINECS (Europe):	Not yet determined
ENCS (Japan):	Not yet determined
IECSC (China):	Not yet determined
PICCS (Philippines):	Not yet determined
TSCA (US):	Components Listed

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OTHER:

Supplemental Regulatory Information:

For additional International, Federal or State regulatory compliance information not shown: Call 312-666-2015.

SECTION 16: OTHER INFORMATION

Reason for Revision: None at this time

Reviewed: wln 082506

Disclaimer:

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200, and supersedes any previous information. Previously dated sheets are invalid and inapplicable.

END OF MSDS