

MATERIAL SAFETY DATA SHEET

The Clorox Company

MSDS Name: PINESOL YELLOW.

MSDS Number: YEJ62801

Revision Number

MSDS Date: 25-JUL-2000

Page Number: 1 of 8

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: PINESOL YELLOW

For Cust. Serv./Tech. Info.: CHROMA INJECTA COLOR SYSTEMS
385 EAST JOE ORR ROAD
CHICAGO HEIGHTS IL 60411

Contact: DOUGLAS A. THOMPSON
Telephone/Fax: (708) 758-0500 (708) 758-0686
Emergency Phone (24 Hour): EVENING ADMINISTRATOR
(708) 758-0500

Product Class: LIQUID COLOR
Trade Name: INJECTA COLOR
Product Code: YEJ62801

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS #	Approximate % (w/w)
TECHNICAL WHITE OILS	8042-47-5	10 - 30
AZO YELLOW	31837-42-0	10 - 30
TITANIUM DIOXIDE	13463-67-7	10 - 30
AZO YELLOW	129423-54-7	< 5.0

NON-HAZARDOUS AND OTHER INGREDIENTS
BELOW REPORTABLE LEVELS. BALANCE %

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: INGESTION MAY CAUSE NAUSEA, VOMITING, PAIN, UPSET STOMACH, DIARRHEA. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. PROLONGED EXPOSURE MAY CAUSE EYE, NOSE AND RESPIRATORY TRACT IRRITATION. DO NOT SWALLOW. SEE SECTIONS 3, 5 AND 6.

MATERIAL SAFETY DATA SHEET

MSDS Name: PINESOL YELLOW

MSDS Number: YEJ62801

Revision Number

MSDS Date: 25-JUL-2000

Page Number: 2 of 8

PRIMARY ROUTES OF EXPOSURE: EYE. SKIN. INHALATION (BREATHING).

EYE CONTACT: MAY CAUSE SLIGHT TO MILD IRRITATION.

SKIN CONTACT: MAY CAUSE SLIGHT TO MILD IRRITATION.

INHALATION (BREATHING): CAN BE IRRITATING TO EYES, NOSE, AND RESPIRATORY TRACT FOLLOWING PROLONGED EXPOSURE. CAN CAUSE WHEEZING, COUGHING, SHORTNESS OF BREATH, AND TIGHTNESS IN THE CHEST.

INGESTION (SWALLOWING): NOT HAZARDOUS IN NORMAL INDUSTRIAL USE. MAY CAUSE NAUSEA, VOMITING, PAIN, DIARRHEA AND UPSET STOMACH.

TARGET ORGANS / CHRONIC EFFECTS: LUNGS AND RESPIRATORY SYSTEM. EYES.

CONDITIONS AGGRAVATED BY EXPOSURE: LUNGS AND RESPIRATORY SYSTEM.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT: IMMEDIATELY FLUSH WITH WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. PROFESSIONALLY WASH CLOTHING AND SHOES BEFORE RE-USE.

INHALATION (BREATHING): REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK IMMEDIATE MEDICAL ATTENTION. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

INGESTION (SWALLOWING): SEEK MEDICAL ATTENTION. IMMEDIATELY INDUCE VOMITING, AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTES TO PHYSICIANS: TREATMENT SHOULD BE DIRECTED AT PREVENTING ABSORPTION, ADMINISTERING TO SYMPTOMS (IF THEY OCCUR), AND PROVIDING SUPPORTIVE THERAPY.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability Class

Flash Range: 265.°F (129.44°C)

MATERIAL SAFETY DATA SHEET

MSDS Name: PINESOL YELLOW

MSDS Number: YEJ62801

Revision Number

MSDS Date: 25-JUL-2000

Page Number: 3 of 8

Explosive Range: Tag Closed Cup
Not Applicable

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: SMOKE, SOOT AND TOXIC/IRRITATING FUMES (i.e. CARBON DIOXIDE, CARBON MONOXIDE, ETC.).

FIRE AND EXPLOSION HAZARDS: DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASSES MAY BE GENERATED DURING COMBUSTION OR DECOMPOSITION.

EXTINGUISHING MEDIA: SMALL FIRES: DRY CHEMICAL, OR CARBON DIOXIDE.
LARGE FIRES: WATER SPRAY, FOG OR FOAM.

FIRE FIGHTING PROCEDURES/EQUIPMENT: FIRE FIGHTERS AND OTHERS WHO MAY BE EXPOSED TO THE PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED WITH NIOSH-APPROVED, POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS (SCBA) AND FULL PROTECTIVE CLOTHING.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

EVACUATION: ISOLATE HAZARD AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING.

CONTAINMENT: SAFELY STOP DISCHARGE. CONTAIN MATERIAL, AS NECESSARY, WITH A DIKE OR BARRIER. STOP MATERIAL FROM CONTAMINATING SOIL, OR FROM ENTERING SEWERS OR BODIES OF WATER.

CLEAN-UP/PERSONAL PROTECTIVE EQUIPMENT: APPROPRIATE SAFETY MEASURES AND PROTECTIVE EQUIPMENT SHOULD BE USED. USE AIR RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS IN ENCLOSED SPACES OR IF AIRBORNE EXPOSURE LIMITS CAN BE EXCEEDED. SEE SECTION 8.

COLLECTION AND DISPOSAL: STOP DISCHARGE, IF SAFE TO DO SO. USE PROPER PROTECTIVE EQUIPMENT. COVER SPILLS WITH ABSORBENT CLAY OR SAWDUST AND PLACE INTO CLOSED CHEMICAL WASTE CONTAINERS. DISPOSE OF ACCORDING TO APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

REPORTING: SPILLS OF THIS MATERIAL IN EXCESS OF A COMPONENTS RQ MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER (1-800-424-8802) AND TO THE APPROPRIATE STATE AND LOCAL EMERGENCY RESPONSE ORGANIZATIONS.

MATERIAL SAFETY DATA SHEET

MSDS Name: PINESOL YELLOW
MSDS Number: YEJ62801
Revision Number:
MSDS Date: 25-JUL-2000
Page Number: 4 of 8

SECTION 7 - HANDLING AND STORAGE

STORAGE CONDITIONS: STORE IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT, IGNITION SOURCES AND DIRECT SUNLIGHT. KEEP CONTAINERS TIGHTLY CLOSED.

TRANSFERS: NO SPECIAL PRECAUTIONS ARE NEEDED. FOLLOW GOOD MANUFACTURING AND HANDLING PRACTICES.

PERSONAL HYGIENE: WASH THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING, DRINKING, SMOKING AND USING RESTROOM FACILITIES. WASH CONTAMINATED GOGGLES, FACESHIELD AND GLOVES. PROFESSIONALLY LAUNDER CONTAMINATED CLOTHING AND SHOES BEFORE RE-USE.

EMPTY CONTAINER PRECAUTIONS: ATTENTION! THIS CONTAINER CAN BE HAZARDOUS WHEN EMPTY. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED SINCE EMPTY CONTAINERS MAY RETAIN PRODUCT RESIDUES. DO NOT RE-USE EMPTY CONTAINER WITHOUT PROFESSIONAL CLEANING FOR FOOD, CLOTHING OR PRODUCTS FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN CONTACT CAN OCCUR.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
TECHNICAL WHITE OILS					
	5.00 mg/M3	N/est	N/est	N/est	5.00 mg/M3
AZO YELLOW					
	N/est	N/est	N/est	N/est	N/est
TITANIUM DIOXIDE					
	10.00 mg/M3	N/est	N/est	N/est	15.00 mg/M3
AZO YELLOW					
	N/est	N/est	N/est	N/est	N/est

ENGINEERING CONTROLS/VENTILATION: LOCAL EXHAUST VENTILATION IS RECOMMENDED WHEN VAPORS, MISTS, OR DUSTS CAN BE RELEASED IN EXCESS OF ESTABLISHED AIRBORNE EXPOSURE LIMITS.

MATERIAL SAFETY DATA SHEET

MSDS Name: PINESOL YELLOW
MSDS Number: YEJ62801
Revision Number:
MSDS Date: 25-JUL-2000
Page Number: 5 of 8

EYE PROTECTION: WEAR CHEMICAL SPLASH GOGGLES. AN EYE WASH FACILITY SHOULD BE READILY AVAILABLE.

SKIN PROTECTION: WEAR PROTECTIVE CLOTHING AND APPROPRIATE IMPERVIOUS GLOVES. BECAUSE A VARIETY OF GLOVES EXIST, CONSULT GLOVE MANUFACTURER TO DETERMINE THE PROPER TYPE FOR A SPECIFIC OPERATION.

RESPIRATORY PROTECTION: AVOID BREATHING VAPOR AND/OR MISTS. WEAR NIOSH/MSHA-APPROVED EQUIPMENT. DETERMINE THE APPROPRIATE TYPE BY CONSULTING THE RESPIRATOR MANUFACTURER. HIGH AIRBORNE CONCENTRATIONS MAY NECESSITATE THE USE OF SELF-CONTAINED BREATHING APPARATUS (SCBA) OR A SUPPLIED AIR RESPIRATOR. RESPIRATORY PROTECTION PROGRAMS MUST BE IN COMPLIANCE TO 29 CFR 1910.134

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	LIQUID
Appearance/Color:	YELLOW
Odor:	CHARACTERISTIC
Solubility (in water):	WATER DISPERSIBLE
pH Value:	Not Applicable
Boiling Range:	550.°F (287.78°C)
Vapor Pressure (mmHg):	Not Applicable
Melting Point:	Not Applicable
Evaporation Rate:	Non Volatile
Vapor Density:	Heavier than air
Partition Coefficient	Not Applicable
% Volatile Weight	Not Applicable
% Volatile	Not Applicable
Specific Gravity:	1.11409
Molecular Weight:	PROPRIETARY
Heavy Elements (ppm)	0.

NOTE: THE PHYSICAL DATA PRESENTED ABOVE ARE TYPICAL VALUES AND SHOULD NOT BE CONSTRUED AS A SPECIFICATION.

SECTION 10 - STABILITY AND REACTIVITY

MATERIAL SAFETY DATA SHEET

MSDS Name: PINESOL YELLOW

MSDS Number: YEJ62801

Revision Number

MSDS Date: 25-JUL-2000

Page Number: 6 of 8

Stability: This product is stable

Hazardous Polymerization: Hazardous polymerization will not occur

CONDITIONS TO AVOID: HIGH TEMPERATURES.

INCOMPATIBILITY WITH OTHER MATERIALS: OXIDIZERS. ACIDS. AMPHOTERIC METALS (i.e. COPPER, ALUMINUM, ZINC)

SECTION 11 - TOXICITY INFORMATION

Route	Species	Exposure and Dose
AZO YELLOW		
Oral	Rat, adult	LD50 15000. mg/kg
AZO YELLOW		
Oral	Rat, adult	LD50 2000. mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

NO DATA ARE AVAILABLE ON THIS PRODUCT.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL: DISPOSE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

GENERAL STATEMENTS: FEDERAL REGULATIONS MAY APPLY TO EMPTY CONTAINER. STATE AND/OR LOCAL REGULATIONS MAY BE DIFFERENT.

GENERAL RECOMMENDATIONS: OF THE METHODS OF DISPOSAL CURRENTLY AVAILABLE, IT IS RECOMMENDED THAT AN ALTERNATIVE BE SELECTED ACCORDING TO THE FOLLOWING ORDER OF PREFERENCE, BASED ON ENVIRONMENTAL ACCEPTABILITY: 1) RECYCLE OR REWORK, IF FEASIBLE; 2) INCINERATE AT AN AUTHORIZED FACILITY; OR 3) TREAT AT AN ACCEPTABLE WASTE TREATMENT FACILITY.

SPECIAL INSTRUCTIONS: BE SURE TO CONTACT THE APPROPRIATE GOVERNMENT ENVIRONMENTAL AGENCIES IF FURTHER GUIDANCE IS REQUIRED.

MATERIAL SAFETY DATA SHEET

MSDS Name: PINESOL YELLOW
MSDS Number: YEJ62801
Revision Number:
MSDS Date: 25-JUL-2000
Page Number: 7 of 8

SECTION 14 - TRANSPORT INFORMATION

UN Number NR
UN Pack Group
UN Class
ICAO/IATA Class
Shipping Name PINESOL YELLOW

DOT LABEL.....: NON-REGULATED
DOT LABEL.....: NON-REGULATED
DOT LABEL NO...: NOT APPLICABLE

SECTION 15 - REGULATORY INFORMATION

SECTION 16 - OTHER INFORMATION

USER'S RESPONSIBILITY: A BULLETIN SUCH AS THIS CANNOT BE EXPECTED TO COVER ALL POSSIBLE INDIVIDUAL SITUATIONS. AS THE USER HAS THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE, ALL ASPECTS OF AN INDIVIDUAL OPERATION SHOULD BE EXAMINED TO DETERMINE IF, OR WHERE, PRECAUTIONS - IN ADDITION TO THOSE DESCRIBED HEREIN - ARE REQUIRED. ANY HEALTH HAZARD AND SAFETY INFORMATION HEREIN SHOULD BE PASSED ON TO YOUR CUSTOMERS OR EMPLOYEES, AS THE CASE MAY BE.

DISCLAIMER OF LIABILITY: THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. ALL CHEMICALS MAY PRESENT UNKNOWN HEALTH HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS WHICH EXIST. FINAL DETERMINATION OF SUITABILITY OF THE CHEMICAL IS THE SOLE RESPONSIBILITY OF THE USER. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL, LAWS AND REGULATIONS.

MATERIAL SAFETY DATA SHEET

MSDS Name: PINESOL YELLOW

MSDS Number: YEJ62801

Revision Number

MSDS Date: 25-JUL-2000

Page Number: 8 of 8

*** END OF MSDS ***