

Rev 1-31-03

Rupert, Gibbon & Spider, Inc

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64900-0250  
-1000

Material Safty Data Sheet

Product Name: Dye-Set Concentrate

Product Code: JAC-762

Dye set

PRODUCT IDENTIFICATION

VERSION DATE: 03/25/93  
DATE PRINTED: 11/19/90  
MSDS NUMBER: 1111940729

CHEMICAL FAMILY:  
DYE FIXATIVE (RESINOUS MATERIAL)

HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	HAZARD DATA:
FORMALDEHYDC (50-00-0)	0.7	SKIN AND EYE IRRITANT INHALATION HAZARD INGESTION HAZARD SENSITIZER
METHANOL (67-56-1)	2.6	SEE EFFECTS OF OVEREXPOSURE SKIN AND EYE IRRITANT INHALATION HAZARD INGESTION HAZARD SKIN ABSORPTION HAZARD SEE EFFECTS OF OVEREXPOSURE

PHYSICAL DATA

PHYSICAL DATA	LOW	HIGH	UNITS	COMMENT
BOILING POINT		100	°C	
DENSITY	1.26		G/CM3	TYPICAL AT 25°C
SOLUBILITY IN WATER				SOLUBLE
PH	2.7	4.7		AS IS
VISCOSITY	35		CPS	TYPICAL AT 25°C
% VOLATILE		60	%	AT 100°C
SPECIFIC GRAVITY (WATER =1)	>1			
VAPOR DENSITY (AIR=1)		1		

APPEARANCE AND ODOR:  
REDDISH AMBER LIQUID.

FIRE AND EXPLOSION HAZARDS

FLASH POINT: >100 °C CLOSED CUP

FLASH POINT: >212 °F CLOSED CUP

EXTINGUISHING MEDIA:  
CARBON DIOXIDE, HALER, ALCOHOL FOAM OR DRY CHEMICAL.

SPECIAL PROCEDURES:  
USE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.  
USE WATER SPRAY TO COOL DRUMS IN FIRE AREA.

UNUSUAL HAZARDS:  
EMITS TOXIC AND CORROSIVE FUMES UNDER FIRE CONDITIONS.  
CLOSED CONTAINERS MAY RUPTURE (DUE TO PRESSURE BUILDUP) WHEN EXPOSED TO HEAT OR FLAMES.

HEALTH INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE:  
SEE EFFECTS OF OVEREXPOSURE

PRIMARY ROUTE OF EXPOSURE: INHALATION: YES SKIN ABSORPTION: YES INGESTION: NO

V-1895

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## ----- EMPLOYEE PROTECTION ----- (CONTINUED)

## PROTECTIVE CLOTHING:

CLOTHING SUITABLE TO PREVENT SKIN CONTACT.  
 SAFETY GOGGLES OR FULL FACE SHIELD.  
 CHEMICAL RESISTANT GLOVES.

## ADDITIONAL PROTECTIVE MEASURES:

USE ENGINEERING CONTROLS SUCH AS LOCAL OR GENERAL EXHAUST TO  
 MAINTAIN AIRBORNE CONCENTRATIONS BELOW EXPOSURE LIMITS.  
 EMERGENCY SHOWERS AND EYE WASHES SHOULD BE AVAILABLE IN AREAS OF USE.  
 WASH HANDS AND FACE BEFORE EATING, DRINKING OR SMOKING.

## ----- SPECIAL PRECAUTIONS -----

## OCCUPATIONAL EXPOSURE LIMITS (CONTINUED)

T.L.V.: TWA 200 PPM 260 MG/M3 METHANOL (67-56-1)  
 T.L.V.: STEL 250 PPM 310 MG/M3 METHANOL (67-56-1)  
 METHANOL IS DESIGNATED BY OSHA FOR SKIN EXPOSURE.  
 OSHA TABLE Z-1-A FINAL RULE LIMITS

## ----- OTHER REGULATORY CONTROLS -----

## OTHER REGULATORY CONTROLS:

THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

THIS PRODUCT CONTAINS THE TOXIC CHEMICAL OR CHEMICALS LISTED BELOW,  
 WHICH ARE SUBJECT TO THE SUPPLIER NOTIFICATION REQUIREMENTS OF  
 SECTION 313 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF  
 1986 ("SARA") AND THE REQUIREMENTS OF 40 CFR PART 372.

METHANOL (67-56-1): 2%  
 FORMALDEHYDE (50-00-0): 0.7%

THIS NOTICE MUST NOT BE DETACHED FROM THE FOREGOING MSDS. IF THE  
 MSDS IS COPIED FOR ANY REASON, INCLUDING DISTRIBUTION, THIS NOTICE  
 MUST ALSO BE COPIED AND ACCOMPANY ALL REDISTRIBUTED MSDS'. FAILURE  
 TO DO SO MAY SUBJECT YOU TO PENALTIES UNDER LAW.

## ----- CHANGES -----

THIS REVISION HAS INVOLVED CHANGES IN THE FOLLOWING SECTIONS:

PHYSICAL DATA  
 FIRE AND EXPLOSION HAZARDS  
 OCCUPATIONAL EXPOSURE LIMITS  
 EMERGENCY AND FIRST AID PROCEDURES  
 REACTIVITY DATA  
 SPILL OR LEAK PROCEDURES/WASTE DISPOSAL  
 EMPLOYEE PROTECTION  
 SPECIAL PRECAUTIONS  
 OTHER REGULATORY CONTROLS

## OSHA HEALTH HAZARDS:

CARCINOGEN  
 EYE HAZARD  
 IRRITANT  
 LIVER TOXIN  
 REPRODUCTIVE TOXIN

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-----HEALTH INFORMATION----- (CONTINUED)

EYE AND SKIN CONTACT.

EFFECTS OF OVEREXPOSURE:

THIS PRODUCT CONTAINS RESIDUAL FORMALDEHYDE. SKIN CONTACT WITH FORMALDEHYDE CAN CAUSE IRRITATION, REDDNING, AND SWELLING. EYE CONTACT WITH LIQUID FORMALDEHYDE CAN CAUSE SEVLE IRRITATION, BURNS, AND PERMANENT IRREVERSTBLE DAMAGE. EYE CONTACT WITH THE VAPOR CAUSES IRRITATION, TEARING, AND A BURNING SENSATION. FORMALDEHYDE VAPORS WHEN INHALED ARE HIGHLY IRRITATING AND CAN CAUSE INFLAMMATION OF THE LINING OF THE NOSE, THROAT, AND LUNGS. WHEN TAKEN INTERNALLY, FORMALDEHYDE CAUSES SEVLE STOMACH PAINS, DIARRHEA, AND VIOLENT VOMITING.

THIS PRODUCT CONTAINS METHANOL. SKIN CONTACT WITH METHANOL CAN LEAD TO DEFATTING OF THE SKIN AND MILD IRRITATION OR DERMATITIS. EYE CONTACT MAY RESULT IN IRRITATION. EFFECTS OF OVEREXPOSURE WHEN INGESTED INCLUDE CENTRAL NERVOUS SYSTEM EFFECTS RESEMBLING ALCOHOLIC INTOXICATION: AFTER 6-30 HRS. VOMITING, ABDOMINAL PAIN, VISUAL DISTURBANCES, SHORTNESS OF BREATH, DELIRIUM, UNCONSCIOUSNESS, COMA AND DEATH RESULT; INHALATION AND SKIN ABSORPTION ARE ALSO ROUTES OF EXPOSURE; THE SYMPTOMS ARE SIMILAR TO THE ABOVE; LIVER AND IN PARTICULAR EYE DAMAGE RESULTING IN TEMPORARY OR PERMANENT BLINDNESS ALSO OCCURS; 100 TO 200 ML OF METHANOL IS FATAL TO HUMANS. AS LITTLE AS 10 ML CAUSES PERMANENT BLINDNESS.

TOXICITY:	ROUTE	TEST	DOSE	UNITS	COMMENTS
	ORL-RAT	LD50	800	MG/KG	FORMALDEHYDE
	URL-RAT	LD50	5,623	MG/KG	METHANOL

TOXICITY TEXT:

FORMALDEHYDE IS LISTED BY IARC AND NTP AS AN ANIMAL CARCINOGEN. HOWEVER NTP FOUND HUMAN EPIDEMIOLOGICAL EVIDENCE INADEQUATE TO ASSESS CARCINOGENICITY IN MAN. FORMALDEHYDE IS LISTED AS AN OSHA CARCINOGEN. FORMALDEHYDE CAUSES HYPERSENSITIVITY LEADING TO CONTACT DERMATITIS; IT IS ALSO REPORTED TO BE A MUTAGEN IN-VIVO AND IN-VITRO. FORMALDEHYDE HAS BEEN REPORTED TO CAUSE REPRODUCTIVE EFFECTS WHEN INHALED; INCLUDING CYTOLOGICAL CHANGES OF THE EMBRYO OR FETUS, METABOLIC AND BEHAVIORIAL EFFECTS ON NEWBORNS, AND SPERMATOGENESIS AND OTHER EFFECTS ON MALES. METHANOL IS A MODERATE SKIN AND EYE IRRITANT. INHALATION STUDIES ON ANIMALS HAVE SHOWN TOXIC EFFECTS ON FETUSES AND DEVELOPMENTAL ABNORMALITIES OF THE MUSCULOSKELETAL, CARDIOVASCULAR, UROGENITAL AND ENDOCRINE SYSTEMS AS WELL AS UNSPECIFIED BEHAVIORIAL EFFECTS ON NEWBORNS. METHANOL IS REPORTED TO SHOW LIMITED EVIDENCE OF MUTAGENICITY IN-VITRO AND IN-VIVO.

MEDICAL CONDITIONS AGGRAVATED:

ANY EXISTING EYE, SKIN, OR RESPIRATORY CONDITION.

CARCINOGEN: IARC: YES NTP: YES OSHA: YES

PRODUCT CONTAINS FORMALDEHYDE.

-----OCCUPATIONAL EXPOSURE LIMITS-----

Item Numbers: 64900-0250, 64900-1000

T.L.V.: (1) THA	1.0	PPM
T.L.V.: (1) STEL	0.0	PPM

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## -----OCCUPATIONAL EXPOSURE LIMITS----- (CONTINUED)

## TEXT:

(1) OSHA (ACTION LEVEL): 0.5 PPM. ACCEPTABLE MAXIMUM PEAK ABOVE THE  
 ACCEPTABLE CEILING CONCENTRATION FOR AN 8 HOUR SHIFT = 10 PPM FOR 30 MINUTES.  
 FORMALDEHYDE: OSHA FORMALDEHYDE STANDARD CFR 1910.1043  
 SEE SPECIAL PRECAUTIONS FOR OCCUPATIONAL EXPOSURE LIMITS FOR METHANOL.

## ----- EMERGENCY AND FIRST AID PROCEDURE -----

## INHALATION:

CONSULT PHYSICIAN IF IRRITATION OF RESPIRATORY PASSAGES OCCURS.

## EYE CONTACT:

HOLD EYES OPEN AND FLUSH EYES FOR AT LEAST 15 MINUTES WITH LARGE  
 QUANTITIES OF WATER. SEEK MEDICAL ATTENTION.

## SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH SOAP AND  
 PLENTY OF WATER. CONSULT PHYSICIAN IF IRRITATION CONTINUES.

## INGESTION:

IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE STOMACH CONTENTS.  
 SEEK MEDICAL ATTENTION IMMEDIATELY.

## ADDITIONAL MEASURES:

IF OVEREXPOSURE OR DIFFICULTY IN BREATHING OCCURS, REMOVE VICTIM TO  
 FRESH AIR. RESTORE BREATHING IF NECESSARY. SEEK MEDICAL ATTENTION.

## ----- REACTIVITY DATA -----

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID:  
 STRONG OXIDIZERS.

## HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY GENERATE  
 CARBON DIOXIDE, CARBON MONOXIDE AND OXIDES OF NITROGEN AND SULFUR

## ----- SPILL OR LEAK PROCEDURES/WASTE DISPOSAL -----

## SPILL OR LEAK PROCEDURES:

WEARING APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT, CONTAIN SPILL,  
 VENTILATE AREA OF SPILL OR LEAK  
 COLLECT ONTO INERT ABSORBENT. PLACE IN SUITABLE CONTAINER.

## WASTE DISPOSAL:

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

## -----EMPLOYEE PROTECTION-----

## RESPIRATORY PROTECTION:

~~IF AIRBORNE CONCENTRATIONS POSE A HEALTH HAZARD, BECOME IRRITATING,  
 OR EXCEED OSHA EXPOSURE LIMITS, USE A NIOSH APPROVED RESPIRATOR IN  
 ACCORDANCE WITH OSHA RESPIRATORY PROTECTION REQUIREMENTS UNDER  
 29 CFR 1910.134.~~

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-----OTHER REGULATORY CONTROLS----- (CONTINUED)

SKIN HAZARD

HAZARD COMMUNICATION LABEL: 131.7

SARA HAZARD CLASS:

ACUTE: YES CHRONIC: YES FIRE HAZARD: NO PRESSURE: NO REACTIVITY: NO

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