

# SAFETY DATA SHEET (SDS)

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Permanent Dyeset Concentrate - Pg 1

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## SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	<b>PERMANENT DYESET CONCENTRATE</b>	
Product Number/Code:	<b>JAC1762 / JAC2762 / JAC3762</b>	
Recommended Use:	Textile auxiliary – fixative for dye	
Description:	Polymer in aqueous dispersion	
Synonym(s):	Dye fixative	
Restrictions on use:	None known	
Emergency Number:	<b>ChemTel, Inc.</b> - Contract #MIS9128344	
	North America: <b>1-800-255-3924</b>	International: <b>1-813-248-0585</b>

## SECTION 2 - HAZARD(S) IDENTIFICATION

<b>Toxicological Data on Ingredients:</b>		
Hazard Classification		
Physical Hazards:	Skin Sensitization	Category 1
Health Hazards:	Carcinogenicity	Category 2
	Specific Target Organ Toxicity (STOT) - Single Exposure	Category 1
Environmental Hazards:	Not classified	
<b>Label Elements</b>		
Pictogram:		
Signal Words:	DANGER	
<b>Hazard Statements-EU:</b>	H317 May cause an allergic skin reaction H351 Suspected of causing cancer H370 Causes damage to organs	

<b>Precautionary Statements-EU:</b>	
Prevention:	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 Wash hands thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P281 Use personal protective equipment as required.</p>
Response:	<p>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P307+P311 IF EXPOSED: Call a POISON CENTER or doctor/physician.</p> <p>P308+P313 IF EXPOSED or concerned:: Get medical advice/attention.</p> <p>P321 Specific treatment (see product label)</p> <p>P332+P313 IF SKIN irritation occurs: Get medical advice/attention.</p> <p>P362 Take off contaminated clothing and wash before reuse.</p>
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an approved waste disposal plant.
Hazard(s) not otherwise classified:	None known

### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical identity</b>	<b>Content in percent (%)*</b>	<b>CAS #</b>
Methanol	< 1.5	67-56-1
Formaldehyde	< 0.375	50-00-0

### SECTION 4 - FIRST AID MEASURES

<b>Description of first aid measures:</b>	
In the event of skin contact:	Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.
In the event of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
In the event of swallowing:	If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do not give sodium bicarbonate, fruit juices, or vinegar. Never give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by physician or poison control center. Call physician or poison control center immediately.
In the event of exposure by inhalation:	Move the victim to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, acute and delayed:	The possible symptoms known are those derived from the labeling (see section 2). No additional; symptoms are known.
Notes to physician:	None known

## SECTION 5 - FIREFIGHTING MEASURES

Suitable extinguishing media:	Water, alcohol-resistant foam, Carbon dioxide (CO <sub>2</sub> ), dry chemical, water spray
Unsuitable extinguishing media:	High volume water jet
Special hazards arising from the substance or mixture:	Thermal decomposition may produce oxides of carbon, nitrogen and sulfur.
Advice for fire fighters:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Contain spill. Small spills may be flushed to the sewer or absorbed on suitable absorbents. Larger spills should be collected as liquid or absorbed. Clean-up may be accomplished by flushing with water if appropriate or remove contaminated soils. Place in appropriate containers.
Methods and material for containment and clean up:	Pick up with absorbent material (eg: sand, sawdust). Rinse away rest with water.

## SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:	Avoid contact with skin and eyes.
Conditions for safe storage including any incompatibilities:	Keep container closed.



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## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters				
CAS #:	Components:	Value Type (form of exposure):	Control parameters/ permissible concentration:	Basis:
67-56-1	Methanol	TWA	200 PPM	ACGIH
	Further information: Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption.			
		STEL	250 ppm	ACGIH
	Further information: Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption.			
		TWA	200 ppm 260 mg/m <sup>3</sup>	NIOSH REL
	Further information: Potential for dermal absorption.			
		ST	250 ppm 325 mg/m <sup>3</sup>	NIOSH REL
	Further information: Potential for dermal absorption.			
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA Z-I
	Further information: The value in mg/m <sup>3</sup> is approximate.			
		TWA	200 ppm 260 mg/m <sup>3</sup>	OSHA PO
	Further information: Skin notation.			
		STEL	250 ppm 325 mg/m <sup>3</sup>	OSHA PO
	Further information: Skin notation.			
50-00-0	Formaldehyde	C	0.3 ppm	ACGIH
	Further information: Eye & Upper Respiratory Tract irritation, Suspected human carcinogen, Sensitizer.			
		TWA	0.016 ppm	NIOSH REL
	Further information: Potential Occupational Carcinogen, See Appendix A.			
		C	0.1 ppm	NIOSH REL
	Further information: Potential Occupational Carcinogen, See Appendix A, 15 minute ceiling value.			
		TWA	0.016 ppm (Formaldehyde)	NIOSH REL
	Further information: Potential Occupational Carcinogen, Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol. See Appendix A.			
		C	0.1 ppm	NIOSH REL
	Further information: Potential Occupational Carcinogen, Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol. See Appendix A, 15 minute ceiling value.			
Engineering measures:		Local ventilation recommended - mechanical ventilation may be used.		
Respiratory protection:		NIOSH approved respirator- chemical cartridge respirator with appropriate cartridge, if required.		
Hand protection:		Butyl Rubber, PVC or Neoprene.		
Eye protection:		Tightly fitting safety goggles		
Skin/body protection:		Wear suitable protective equipment.		

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>General information:</b>	
Appearance and physical state:	Liquid
Color:	Amber
Type of Odor:	Like acetic acid; weakly
Odor threshold:	Not determined
<b>Important health, safety and environmental information:</b>	
Initial Boiling Point and Boiling Range:	Approx. 212°F / 100°C
Melting Point/Freezing Point:	Not determined
Flammability Classification:	Not applicable
Flash Point:	> 200°F / 93°C - Method:TCC
Auto-ignition Temperature:	Not tested
Decomposition Temperature:	No data available
Flammability Limits (lower/upper):	Not tested
Evaporation rate:	Not determined
Vapor Pressure:	Not determined
Vapor Density (Air=1):	Not determined
Octanol/Water Partition Coefficient (log Pow):	Not determined
Specific Gravity:	N/A
Bulk Density:	N/A
Water Solubility:	Completely soluble
pH:	2.5-4.5
Viscosity (dynamic/kinematic):	Not determined
Explosive Properties:	N/A
Impact Sensitivity:	Not determined
Oxidizing Properties:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A
Relative Density:	Not determined

## SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use.
Stability:	Stable
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use. Stable.
Conditions to avoid:	Oxidizer, Alkalis
Incompatible materials:	Oxidizing agents, Alkalis
Hazardous decomposition products:	When handled and stored appropriately, no dangerous decomposition products are known.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Information on toxicological effects:</b>		
Acute toxicity (list all possible routes of exposure)		
Acute Oral Toxicity:	LD50 (rat): Remarks: not tested. Acute toxicity estimate: 4,000 mg/kg Method: Calculation method	
Acute Dermal Toxicity:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method	
Acute Inhalation Toxicity:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method	
Components:		
Methanol	67-56-1	Acute oral toxicity LDO (Humans): 428 mg/kg
Formaldehyde	50-00-0	Acute oral toxicity LD50 (rat): 800 mg/kg
Germ Cell Mutagenicity:		
Carcinogenicity:		
IARC:	Listed	
OSHA:	Listed	
NTP:	Listed	
Experience with human exposure:		
General information:	The possible symptoms known are those derived from the labeling (see section 2).	

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:		
Methanol	67-56-1	
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 19,000 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates:	LC50: > 10,000 mg/l Exposure time: 24 h	
Toxicity to bacteria:	LC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h	
Persistence and degradability:		
Methanol	67-56-1	
Biodegradability:	Exposure time: 28 d Method: OECD Test Guideline 301D	
Bioaccumulative potential:		
Methanol	67-56-1	
Bioaccumulation:	Remarks: Due to the low logPow bioaccumulation is not expected. Partition coefficient: n-octanol/water log Pow: -0.77	
Mobility in soil:	No data available	
Additional ecological information:	No data available	

## SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods:	
RCRA- Resource Conservation and Recovery Authorization Act:	No - not as sold.
Waste Code:	None
Waste from residues:	Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.

## SECTION 14 - TRANSPORT INFORMATION

General Information:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
UN number:	Not relevant
UN proper shipping name:	Not relevant
Transport hazard class:	Not relevant
Packing group:	Not relevant
Environmental Hazards:	
Environmentally hazardous substance:	No
Special precautions for user:	Not relevant

## SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:			
EPCRA (Emergency Planning and Community Right-to-Know Act) - CERCLA Reportable Quantity:			
Component:	CAS #:	Component RQ (lbs):	Calculated Product RQ (lbs):
Formaldehyde	50-00-0	100	20,000
SARA 311/312 Hazards:	Acute Health Hazard; Chronic Health Hazard		
SARA 302:	The following components are subject to reporting levels established by SARA Title III, Section 302:		
	Formaldehyde	50-00-0	< 0.375%
SARA 313:	This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR372. Any such toxic chemical(s) are shown below. This information must be included in all SDS's that are copied and distributed for this material.		
	Methanol	67-56-1	< 1.5%
	Formaldehyde	50-00-0	< 0.375%
CA Proposition 65:	WARNING: This product can expose you to chemicals including methanol and formaldehyde which are known to the State of California to cause cancer and developmental harm. For more information, go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .		
	Methanol	67-56-1	< 1.5%
	Formaldehyde	50-00-0	< 0.375%
Clean Water Act:	Contains no known priority pollutants at concentrations greater than 0.1%.		
The components of this product are reported in the following inventories:	TSCA : On TSCA Inventory AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZioC (New Zealand), PICCS (Philippines), TSCA (USA)		

## SECTION 16 - OTHER INFORMATION

<b>This product has not been evaluated for FDA regulatory requirements.</b>	
<b>HMIS Hazard ID:</b>	
Health:	No information available
Flammability:	No information available
Reactivity:	No information available
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect	

**Disclaimer:**

The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider, Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider, Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

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<b>Abbreviations:</b>	
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of Dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
BfR	Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF	Bioconcentration Factor
BOD5	5-day Biochemical Oxygen Demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLP	Classification, Labeling and Packaging regulation
COD	Chemical Oxygen Demand DOT Department of Transportation DSL Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System IARC International Agency for Research on Cancer IATA International Air Transport Association
ICAO	International Civil Aviation Organization IDLH Immediately Dangerous to Life and Health IMDG International Maritime Dangerous Goods
LD50	Lethal Dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemical Substances
RID	International carriage of dangerous goods by Rail SARA Superfund Amendments and Reauthorization Act STEL Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile Organic Compound
WGK	Wassergefährdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System