DATE: 01/12/2018

SECTION 1. IDENTIFICATION

Product name: Permanent Dyeset Concentrate
Product number: JAC1762, JAC2762, JAC3762
Formula: Mixture
Chemical family: Polymer in aqueous dispersion
Synonyms: Dye fixative

Recommended use of the chemical and restrictions on use
Recommended use: Textile auxiliary – fixative for dye.
Recommended restrictions on use: unknown

Manufacturer: Rupert, Gibbon & Spider, Inc.
Manufacturer Address: 1147 Healdsburg Avenue
Healdsburg CA 95448
Number: 800-442-0455
Emergency Number: CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 800-442-0455

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin sensitization: Category 1
Carcinogenicity: Category 2
Specific target organ toxicity - single exposure: Category 1

GHS Label element
Hazard pictograms:

Signal word: Danger
Hazard statements:
- H317 May cause an allergic skin reaction
- H351 Suspected of causing cancer
- H370 Causes damage to organs

Precautionary statements

Prevention:
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves.
- P281 Use personal protective equipment as required.

Response:
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.

Storage:
- P405 Store locked up.

Disposal:
- P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>&lt; 1.5</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>&lt; 0.375</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

If inhaled   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.

In case of skin contact   Wash thoroughly with soap and water for 15 minutes. If skin
            irritation occurs, seek medical attention.

In case 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.

If swallowed   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.

Most important symptoms and effects, both acute and delayed   The possible symptoms known are those derived from the labelling
            (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 (CO2)
Dry chemical
Water spray

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Thermal decomposition may produce oxides of carbon, nitrogen and sulfur.

Further information : 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 absorbants. 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 materials for containment and cleaning up:

Pick up with absorbent material (eg sand, sawdust). Rinse away rest with water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes.

Conditions for safe storage : Keep container closed
### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters/Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methanol</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ST</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>50-00-0</td>
<td>Formaldehyde</td>
<td>C</td>
<td>0.3 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA (Formaldehyde)</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>

**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
- The value in mg/m³ is approximate.
- Formaldehyde 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
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

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**Personal protective equipment**

- **Respiratory protection**: NIOSH approved respirator- chemical cartridge respirator with appropriate cartridge, if required.
- **Hand protection**
  - **Remarks**: Butyl Rubber, PVC or Neoprene.
- **Eye protection**: Tightly fitting safely goggles
- **Skin and body protection**: Wear suitable protective equipment.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance**: Liquid
- **Colour**: amber
- **Odour**: like acetic acid, weakly
- **Odour Threshold**: not determined
- **pH**: 2.5-4.5
- **Melting point/Freezing point**: not determined
- **Boiling point & boiling range**: approx. 212 °F / 100 °C
- **Flash point**: > 200 °F / 93 °C
  - **Method**: TCC
- **Evaporation rate**: not determined
- **Flammability (solid, gas)**: not applicable
- **Upper explosion limit**: not tested.
- **Lower explosion limit**: not tested.
Vapour pressure: not determined
Relative vapour density: not determined
Relative Density: not determined
Solubility(ies):
  Water solubility: completely soluble
Partition coefficient:
  n-octanol/water: not determined
Auto-ignition temperature: not tested.
Decomposition temperature: no data available

Viscosity:
  Viscosity, dynamic: not determined
  Viscosity, kinematic: not determined
Impact sensitivity: not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical 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

Information on likely routes of exposure

   Eye contact
   Skin contact
   Ingestion
   Inhalation
   Skin Absorption

Acute toxicity

Product:

   Acute oral toxicity   LD50 (rat): Remarks: not tested.
   Acute toxicity estimate: 4,000 mg/kg
   Method: Calculation method

   Acute inhalation toxicity Acute toxicity estimate: > 40 mg/l
   Exposure time: 4 h
   Test atmosphere: vapour
   Method: Calculation method

   Acute dermal toxicity   Acute toxicity estimate: > 5,000 mg/kg
   Method: Calculation method

Components:

67-56-1:
   Acute oral toxicity   LDO (Humans): 428 mg/kg

50-00-0:
   Acute oral toxicity   LD50 (rat): 800 mg/kg

Carcinogenicity

IARC   Listed
OSHA   Listed
NTP    Listed

Experience with human exposure

Product:

General Information   The possible symptoms known are those derived from the labelling
                      (see section 2).
                      Permanent Dyeset Concentrate SDS
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
67-56-1:
Toxicity to fish       LC50 (Oncorhynchus mykiss (rainbow trout)): 19,000 mg/1
                       Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates       LC50: > 10,000 mg/1
                       Exposure time: 24 h
Toxicity to bacteria       IC50 (activated sludge): > 1,000 mg/1
                       Exposure time: 3 h

Persistence and degradability

Components:
67-56-1:
Biodegradability       Exposure time: 28 d
                       Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:
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

Other adverse effects

Product:
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

Permanent Dyeset Concentrate SDS
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

DOT: not restricted
IATA: not restricted
IMDG: not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>100</td>
<td>20000</td>
</tr>
</tbody>
</table>

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:
50-00-0    Formaldehyde    < 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 MSDS's that are copied and distributed for this material.

Methanol 67-56-1    < 1.5%
Formaldehyde 50-00-0 < 0.375%

CA Proposition 65
This product contains a chemical known to the state of California to cause cancer.

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

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZioC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

This product has not been evaluated for FDA regulatory requirements. Revision Date : 01/03/2018

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.

US/EN