


Printing date 02/25/2013

Reviewed on 02/25/2013

1 Company and Substance / Formulation Identification

- **Product identifier**
 - **Product name:** YELLOW JACKET Coolant Dye
 - **Product Code** 69737, 69738, 69739
 - **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
 - **Application of the substance / preparation** Dyestuff/Colouring agent
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Ritchie Engineering Co., Inc.
10950 Hampshire Avenue South
Bloomington, MN 55348
(952) 943-1333
 - **Department:** Regulatory
 - **Emergency Telephone:** 800-545-5075

2 Hazards identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Label elements**
 - **GHS label elements** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void
- **Classification system:**
 - **NFPA ratings (scale 0 - 4)**
 Health = 1
Fire = 0
Reactivity = 0
 - **HMIS-ratings (scale 0 - 4)**

HEALTH	1
FIRE	0
REACTIVITY	0

 Health = 1
Fire = 0
Reactivity = 0

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
 - **Description:** Mixture of the substances listed below with nonhazardous additions.
 - **Hazardous components:** Void

4 First aid measures

- **Description of first aid measures**
 - **General information:** No special measures required.
 - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
 - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Seek medical treatment.
- **Information for doctor:**
 - **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
 - **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
 - **Protection against explosions and fires:** No special measures required.
 - **Special Sensitivity:** Keep container closed when not in use.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements for storerooms and containers:** No special requirements.
 - **Further information about storage conditions:** None.

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- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Technical systems:**
Facilities using this material should be equipped with an eye wash station and a safety shower.
- **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
 - **Personal protective equipment:**
 - **General protective and hygienic measures:**
Product is a concentrated colorant and can stain skin and/or various articles. The hazards of this product should be low under normal industrial and commercial use. Handle with care to minimize exposure. Do not allow product to reach soil or surface waters.
 - **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
 - **Protection of hands:**
Use of gloves suggested; concentrated dye/pigment products may stain skin if directly contacted.
 - **Glove Material** No specified glove material; most liquid-impervious protective gloves will suffice.
 - **Eye protection:** General eye protection suggested when handling any chemical product.
 - **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
 - **General Information**
 - **Appearance:**
 - **Form:** Liquid
 - **Color:** Yellow
 - **Odor:** Odorless
 - **pH-value:** Not determined.
 - **Change in condition**
 - **Melting point/Melting range:** Undetermined.
 - **Boiling point/Boiling range:** 100°C (212 °F)
 - **Flash point:** Not applicable.
 - **Flammability (solid, gaseous):** Not applicable.
 - **Ignition temperature:**
 - **Decomposition temperature:** Not determined.
 - **Auto igniting:** Product is not selfigniting.
 - **Danger of explosion:** Product does not present an explosion hazard.
 - **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.

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· Vapor pressure at 20°C (68 °F):	23 hPa (17 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Solubility in / Miscibility with	
· Water:	Soluble.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
In the case of a fire, oxides of carbon, fumes, and smoke may be produced.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:**
Based on the known information of the ingredients, product is expected to have a low level of acute oral toxicity. (>2,000 mg/kg)
 - **Primary irritant effect:**
 - **on the skin:** Contact may cause irritation.
 - **on the eye:** Contact may cause irritation.
 - **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.

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· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:** Must be specially treated adhering to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· DOT, ADR, IMDG, IATA Void

· **UN proper shipping name**

· DOT, ADR, IMDG, IATA Void

· **Transport hazard class(es)**

· DOT, ADR, IMDG, IATA

· Class Void

· **Packing group**

· DOT, ADR, IMDG, IATA Void

· **Special precautions for user** Not applicable.

· **UN "Model Regulation":** -

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

16 Other information

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of the manufacturer/supplier. The data on this sheet are related only to the specific material designated herein, and the information available for all ingredients at the time of creation. Manufacturer/supplier assumes no responsibility for use or reliance upon these data. Any information that is withheld herein (such as exact chemical identity) has been reserved as a trade secret as per applicable regulations.

· **Contact:** ABH

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