



# SAFETY DATA SHEET

Issuing Date 08-Jul-2015

Revision Date 30-May-2015

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** 7224 X 50 BLACK

### Other means of identification

**Product Code(s)** 8054643

**UN-No**

**Synonyms** No information available

### Recommended use of the chemical and restrictions on use

**Recommended Use** Printing ink.

**Uses advised against** No information available

MARKEM-IMAJE USA  
100 Chastain Center Blvd  
Suite 165  
<br />Kennesaw, GA 30144 - USA  
Phone: 770-421-7700  
Fax: 770-421-7702

### Details of the supplier of the safety data sheet

#### Supplier Address

Markem-Imaje  
150 Congress St. PO Box 2100  
Keene, NH 03431  
(603) 352-1130

### Emergency telephone number

**Chemical Emergency Phone Number** Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

**Emergency Telephone Number** In case of emergency call CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |             |
|-----------------------------------|-------------|
| Acute toxicity - Oral             | Category 4  |
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 1  |
| Respiratory sensitization         | Category 1  |
| Skin sensitization                | Category 1  |
| Carcinogenicity                   | Category 1A |

### GHS Label elements, including precautionary statements

#### Emergency Overview

**Danger****Hazard statements**

Harmful if swallowed  
 Causes skin irritation  
 Causes serious eye damage  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 May cause an allergic skin reaction  
 May cause cancer

**Color** Black**Physical State** Liquid**Odor** Characteristic**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 In case of inadequate ventilation wear respiratory protection  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see .? on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor/physician  
 IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation occurs: Get medical advice/attention  
 Take off contaminated clothing and wash before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

No information available

**Other information**

- May be harmful in contact with skin
- Toxic to aquatic life with long lasting effects
- Toxic to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Nature of the Preparation** Mixture of solvents, polymers, colorants and additives.

| Chemical Name               | CAS-No    | Weight % |
|-----------------------------|-----------|----------|
| Tributyl phosphate          | 126-73-8  | 20 - 30  |
| Carbon black                | 1333-86-4 | 5 - 10   |
| n-Butyl alcohol             | 71-36-3   | 5 - 10   |
| Hydrohexaphthalic anhydride | 85-42-7   | 1 - 5    |
| Formaldehyde                | 50-00-0   | < 1      |

### 4. FIRST AID MEASURES

#### First aid measures

##### **General Advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

##### **Eye Contact**

Immediately flush with plenty of water. Keep eye wide open while rinsing. If symptoms persist, call a physician.

##### **Skin Contact**

Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.

##### **Inhalation**

Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Oxygen or artificial respiration if needed. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

##### **Ingestion**

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

##### **Protection of First-aiders**

Use personal protective equipment.

#### **Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available

#### **Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** May cause sensitization of susceptible persons. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

##### **Suitable Extinguishing Media**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant foam. Water spray.

##### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

##### **Specific Hazards Arising from the Chemical**

Non-combustible but may burn if exposed to flame or other ignition source. Burning produces obnoxious and toxic fumes. Runoff may pollute waterways. Fire or intense heat may cause violent rupture of packages. This material creates a fire hazard because it floats on water. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact.

##### **Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus and protective suit. Fire or intense heat may cause violent rupture of packages. Keep containers and surroundings cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so

**Methods for Cleaning Up** Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling Handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

**Incompatible Products** Incompatible with oxidizing agents. Incompatible with strong acids and bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                  | ACGIH TLV   | OSHA PEL   | NIOSH IDLH  |
|--------------------------------|---|--|---|
| Tributyl phosphate<br>126-73-8 | TWA: 5 mg/m <sup>3</sup> inhalable fraction and vapor | TWA: 5 mg/m <sup>3</sup><br>(vacated) TWA: 0.2 ppm<br>(vacated) TWA: 2.5 mg/m <sup>3</sup>   | IDLH: 30 ppm<br>TWA: 0.2 ppm<br>TWA: 2.5 mg/m <sup>3</sup>  |
| Carbon black<br>1333-86-4      | TWA: 3 mg/m <sup>3</sup> inhalable fraction           | TWA: 3.5 mg/m <sup>3</sup><br>(vacated) TWA: 3.5 mg/m <sup>3</sup>   | IDLH: 1750 mg/m <sup>3</sup><br>TWA: 3.5 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |
| Formaldehyde<br>50-00-0        | Ceiling: 0.3 ppm                                      | TWA: 0.75 ppm<br>(vacated) TWA: 3 ppm unless specified in 1910.1048<br>(vacated) STEL: 10 ppm 30 min unless specified in 1910.1048<br>(vacated) Ceiling: 5 ppm unless specified in 1910.1048<br>STEL: 2 ppm see 29 CFR 1910.1048 | IDLH: 20 ppm<br>Ceiling: 0.1 ppm 15 min<br>TWA: 0.016 ppm   |
| n-Butyl alcohol<br>71-36-3     | TWA: 20 ppm   | TWA: 100 ppm<br>TWA: 300 mg/m <sup>3</sup><br>(vacated) S*<br>(vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 150 mg/m <sup>3</sup>  | IDLH: 1400 ppm<br>Ceiling: 50 ppm<br>Ceiling: 150 mg/m <sup>3</sup>   |

| Chemical Name                          | ACGIH TLV   | OSHA PEL | NIOSH IDLH |
|--|---|----------|------------|
| Hydrohexaphthalic anhydride<br>85-42-7 | Ceiling: 0.005 mg/m <sup>3</sup> inhalable fraction and vapor |          |            |

NIOSH IDLH: Immediately Dangerous to Life or Health.

S\*: Skin Notation

#### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v.

#### Engineering Measures

In case of insufficient ventilation wear suitable respiratory equipment. Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal Protective Equipment

##### Eye/Face Protection

Tightly fitting safety goggles. Face-shield.

##### Skin and Body Protection

Long sleeved clothing. Chemical resistant apron. Lightweight protective clothing. Apron. Impervious gloves.

##### Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn

#### Hygiene Measures

Keep away from food and drink. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible. Provide regular cleaning of equipment, work area and clothing.



Glasses



Gloves



Face Mask

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

|                                   |                |                            |                 |
|-----------------------------------|----------------|----------------------------|-----------------|
| <b>Color</b>                      | Black .        | <b>Odor</b>                | Characteristic. |
| <b>Physical State</b>             | Liquid         | <b>pH</b>                  | NA              |
| <b>Flash Point</b>                | 241°F / 116°C  | <b>Boiling Point/Range</b> | 292°C / 558°F   |
| <b>Autoignition Temperature</b>   | 260°C / 500°F  | <b>Melting Point/Range</b> | Not determined  |
| <b>Flammability Limits in Air</b> |                | <b>Explosion Limits</b>    | Not determined  |
| <b>Upper</b>                      | 11.2           |                            |                 |
| <b>Lower</b>                      | 1.4%           |                            |                 |
| <b>Specific Gravity</b>           | 1.10           | <b>Solubility</b>          | Not determined  |
| <b>Evaporation Rate</b>           | Not determined | <b>Vapor Pressure</b>      | Not determined  |
| <b>Vapor Density</b>              | Not determined | <b>Liquid Density</b>      | 9.21582522      |
| <b>VOC Content(%)</b>             | 5.6847         | <b>VOC (lb/gal)</b>        | 5.61537239      |
| <b>VOC (g/l)</b>                  | 672.87000977   |                            |                 |

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable under normal conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

Incompatible with oxidizing agents. Incompatible with strong acids and bases.

**Hazardous Decomposition Products**

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Phosphorus compounds. Burning produces irritant fumes.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

|                            |  |
|----------------------------|--|
| <b>Product Information</b> | Product does not present an acute toxicity hazard based on known information |
| <b>Inhalation</b>          | There is no data available for this product                                  |
| <b>Eye Contact</b>         | There is no data available for this product                                  |
| <b>Skin Contact</b>        | There is no data available for this product                                  |
| <b>Ingestion</b>           | There is no data available for this product                                  |

**Component Information**

| Chemical Name                          | LD50 Oral                                  | LD50 Dermal  | LC50 Inhalation   |
|--|--|--|---|
| Tributyl phosphate<br>126-73-8         | = 1390 mg/kg ( Rat )                       | > 3100 mg/kg ( Rabbit )                            | = 1.359 mg/L ( Rat ) 4 h<br>= 28 g/m <sup>3</sup> ( Rat ) 1 h |
| Carbon black<br>1333-86-4              | > 15400 mg/kg ( Rat )                      | > 3 g/kg ( Rabbit )                                | -   |
| Formaldehyde<br>50-00-0                | = 600 mg/kg ( Rat )                        | = 270 mg/kg ( Rabbit )                             | = 0.578 mg/L ( Rat ) 4 h                                      |
| n-Butyl alcohol<br>71-36-3             | = 700 mg/kg ( Rat )<br>= 790 mg/kg ( Rat ) | = 3400 mg/kg ( Rabbit )<br>= 3402 mg/kg ( Rabbit ) | > 8000 ppm ( Rat ) 4 h  |
| Hydrohexaphthalic anhydride<br>85-42-7 | = 4040 mg/kg ( Rat )                       | -  | -   |

**Information on toxicological effects**

**Symptoms** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available  
**Mutagenic Effects** No information available  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

| Chemical Name                          | ACGIH | IARC                     | NTP   | OSHA |
|--|-------|--------------------------|-------|------|
| Tributyl phosphate<br>126-73-8         | A3    | No information available | -     | -    |
| Carbon black<br>1333-86-4              | A3    | Group 2B                 | -     | X    |
| Formaldehyde<br>50-00-0                | A2    | Group 1                  | Known | X    |
| n-Butyl alcohol<br>71-36-3             | -     | No information available | -     | -    |
| Hydrohexaphthalic anhydride<br>85-42-7 | -     | No information available | -     | -    |

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

No information available

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

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

No information available

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

**NTP: (National Toxicity Program)**

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

Known - Known Carcinogen

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

X - Present

At the time of printing of this MSDS, available epidemiologic, toxicological and mechanistic data on Carbon Black, does not support an increased risk of cancer in exposed humans.

**Reproductive Toxicity**

No information available

**Specific target organ systemic toxicity (single exposure)**

No information available

**Specific target organ systemic toxicity (repeated exposure)**

No information available

**Chronic Toxicity**

May cause adverse effects on the bone marrow and blood-forming system. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

**Target Organ Effects**

Eyes, Skin, Respiratory system, Lungs, Blood, Kidney, Central nervous system (CNS), Lymphatic System, Respiratory system.

**Aspiration hazard**

No information available

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 1458 mg/kg

ATEmix (dermal) 4030 mg/kg

ATEmix (inhalation-gas) 99999

ATEmix (inhalation-dust/mist) 97.7 mg/L

ATEmix (inhalation-vapor) 99999

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

| Chemical Name                          | Toxicity to Algae  | Toxicity to Fish   | Toxicity to Microorganisms | Daphnia Magna (Water Flea)   |
|--|--|--|----------------------------|--|
| Tributyl phosphate<br>126-73-8         | 1.1: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50<br>4.4: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 | 1.0 - 10.0: 96 h <i>Pimephales promelas</i> mg/L LC50 static<br>7.66 - 8.74: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through<br>13: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through<br>4.2: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static<br>4.5: 96 h <i>Oryzias latipes</i> mg/L LC50<br>8.18: 96 h <i>Pimephales promelas</i> mg/L LC50<br>9.6: 96 h <i>Oryzias latipes</i> mg/L LC50 static |                            | 1.58 - 8.43: 48 h <i>Daphnia magna</i> mg/L EC50 Static  |
| Carbon black<br>1333-86-4              | .?   | -  |                            | 5600: 24 h <i>Daphnia magna</i> mg/L EC50  |
| n-Butyl alcohol<br>71-36-3             | 500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50<br>500: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50         | 100000 - 500000: 96 h <i>Lepomis macrochirus</i> µg/L LC50 static<br>1730 - 1910: 96 h <i>Pimephales promelas</i> mg/L LC50 static<br>1740: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through<br>1910000: 96 h <i>Pimephales promelas</i> µg/L LC50 static  |                            | 1897 - 2072: 48 h <i>Daphnia magna</i> mg/L EC50 Static<br>1983: 48 h <i>Daphnia magna</i> mg/L EC50 |
| Hydrohexaphthalic anhydride<br>85-42-7 | 95.6: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50  | 660: 48 h <i>Leuciscus idus</i> mg/L LC50 static   |                            | 103: 24 h <i>Daphnia magna</i> mg/L EC50   |
| Formaldehyde<br>50-00-0                | .?   | 0.032 - 0.226: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 flow-through<br>100 - 136: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static<br>22.6 - 25.7: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through<br>23.2 - 29.7: 96 h <i>Pimephales promelas</i> mg/L LC50 static<br>1510: 96 h <i>Lepomis macrochirus</i> µg/L LC50 static<br>41: 96 h <i>Brachydanio rerio</i> mg/L LC50 static                     |                            | 11.3 - 18: 48 h <i>Daphnia magna</i> mg/L EC50 Static<br>2: 48 h <i>Daphnia magna</i> mg/L LC50      |

**Persistence and Degradability**

No information available

**Bioaccumulation**

No information available

| Chemical Name                          | Log Pow    |
|--|------------|
| Tributyl phosphate<br>126-73-8         | 2.5        |
| Carbon black<br>1333-86-4              | None known |
| n-Butyl alcohol<br>71-36-3             | 0.785      |
| Hydrohexaphthalic anhydride<br>85-42-7 | 0.56       |
| Formaldehyde<br>50-00-0                | 0.35       |



**Other Adverse Effects** No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste Disposal Methods** Dispose of in accordance with local regulations

### 14. TRANSPORT INFORMATION

**UN-No**  
**Hazard Class**  
**Packing Group**

**IATA** Not regulated  
**UN-No** UN3082  
**Hazard Class**  
**Packing Group** III

**IMDG/IMO** Not regulated

**ADR** Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA** Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name   | CAS-No  | Weight % | SARA 313 - Threshold Values % |
|-----------------|---------|----------|-------------------------------|
| Formaldehyde    | 50-00-0 | 0.253341 | 0.1                           |
| n-Butyl alcohol | 71-36-3 | 5.06682  | 1.0                           |

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** Yes  
**Chronic Health Hazard** No  
**Fire Hazard** No  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Formaldehyde  | 100 lb                      |                        |                           | X                          |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name   | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ   |
|-----------------|--------------------------|------------------------------------|--|
| n-Butyl alcohol | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Formaldehyde    | 100 lb                   | 100 lb                             | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ  |

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No    | California Prop. 65 |
|---------------|-----------|---------------------|
| Carbon black  | 1333-86-4 | Carcinogen          |
| Formaldehyde  | 50-00-0   | Carcinogen          |

**U.S. State Right-to-Know Regulations**

| Chemical Name      | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|--------------------|---------------|--------------|----------|--------------|
| Tributyl phosphate | X             | X            | X        |              |
| Carbon black       | X             | X            | X        |              |
| n-Butyl alcohol    | X             | X            |          |              |
| Formaldehyde       | X             | X            | X        |              |

| Chemical Name               | New Jersey |
|-----------------------------|------------|
| Tributyl phosphate          | X          |
| Carbon black                | X          |
| Formaldehyde                | X          |
| n-Butyl alcohol             | X          |
| Isobutyl alcohol            | X          |
| Hydrohexaphthalic anhydride | X          |

**International Regulations****Mexico - Grade**

Slight risk, Grade 1

| Chemical Name      | Carcinogen Status | Exposure Limits  |
|--------------------|-------------------|--|
| Tributyl phosphate |                   | Mexico: TWA 0.2 ppm<br>Mexico: TWA 2.5 mg/m <sup>3</sup><br>Mexico: STEL 0.4 ppm<br>Mexico: STEL 5 mg/m <sup>3</sup> |
| Carbon black       |                   | Mexico: TWA 3.5 mg/m <sup>3</sup><br>Mexico: STEL 7 mg/m <sup>3</sup>  |
| n-Butyl alcohol    |                   | Mexico: Ceiling 50 ppm<br>Mexico: Ceiling 150 mg/m <sup>3</sup>  |
| Formaldehyde       | A2                | Mexico: Ceiling 2 ppm<br>Mexico: Ceiling 3 mg/m <sup>3</sup>   |

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION****NFPA****HMIS****Personal Protection X****Health Hazard 2****Health Hazard 2****Flammability 1****Flammability 1****Reactivity -****Reactivity 0****Prepared By**Environmental and Safety Department  
150 Congress St. PO Box 2100.  
Keene, NH 03431  
(603) 352-1130**Issuing Date**

08-Jul-2015

**Revision Note**

No information available

**General Disclaimer****The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication****End of Safety Data Sheet**