

Safety Data Sheet

performance through chemistry

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| ECTION 1: Identification of the | substance/mixture and of the compa | any/undertaki | ng |
|---|--|-------------------|---|
| .1. Product identifier | | | |
| Product form | : Mixture | | |
| Product name | : Indigo Stock Solution | | |
| Product code | : LC15587 | | |
| | substance or mixture and uses advised again | | |
| Jse of the substance/mixture | : For laboratory and manufacturing use o | nly. | |
| 1.3. Details of the supplier of the sa | fety data sheet | | |
| LabChem Inc Jackson's Pointe Commerce Park Building ´ Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com | 000, 1010 Jackson's Pointe Court | | |
| 1.4. Emergency telephone number | | | |
| Emergency number | : CHEMTREC: 1-800-424-9300 or 011-70 | 03-527-3887 | |
| SECTION 2: Hazards identification | n | | |
| 2.1. Classification of the substance | | | |
| Classification (GHS-US) | | | |
| | | | |
| | | | |
| | | | |
| Not classified | | | |
| Not classified 2.2. Label elements | | | |
| Not classified 2.2. Label elements GHS-US labeling | | | |
| Not classified 2.2. Label elements GHS-US labeling | | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable | | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the | : None under normal conditions. | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards | | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U | | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable | S) | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform | S) | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance | S) | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance Not applicable | S) | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance Not applicable 3.2. Mixture | S) ation on ingredients | 9/_ | Classification (GHS-US) |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance Not applicable | S) ation on ingredients Product identifier | % 99.82 | Classification (GHS-US) Not classified |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance Not applicable 3.2. Mixture Name | S) ation on ingredients | | |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance Not applicable 3.2. Mixture Name Water | S) ation on ingredients Product identifier (CAS No) 7732-18-5 | 99.82 | Not classified Skin Corr. 1B, H314 |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance Not applicable 3.2. Mixture Name Water Phosphoric Acid, 85% w/w | S) ation on ingredients Product identifier (CAS No) 7732-18-5 (CAS No) 7664-38-2 | 99.82 0.1 | Not classified Skin Corr. 1B, H314 Eye Dam. 1, H318 |
| Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards Other hazards Other hazards not contributing to the classification 2.4. Unknown acute toxicity (GHS-U Not applicable SECTION 3: Composition/inform 3.1. Substance Not applicable 3.2. Mixture Name Water Phosphoric Acid, 85% w/w Potassium Indigotrisulfonate | S) ation on ingredients Product identifier (CAS No) 7732-18-5 (CAS No) 7664-38-2 | 99.82 0.1 | Not classified Skin Corr. 1B, H314 Eye Dam. 1, H318 |

| First-aid measures after inhalation | : Allow victim to breathe fresh air. Allow the victim to rest. | |
|---------------------------------------|---|--|
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. | |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness | |

- ediately with plenty of water. Obtain medical attention if pain, blinking or redness : Rins persist. First-aid measures after ingestion
 - : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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|---|------------------------|---|---|--|
| 4.2. Most important sy | mptoms and effects | , both acute and delayed | | |
| Symptoms/injuries | - | | nazard under anticipated conditions of normal use. | |
| Symptoms/injuries after skin c | | May stain the skin. | · · · · · · · · · · · · · · · · · · · | |
| 4.3. Indication of any immediate medical attention and special treatment needed | | | | |
| Obtain medical assistance. | inneulate medical a | ittention and special treatment neede | u | |
| | | | | |
| SECTION 5: Firefightir | ng measures | | | |
| 5.1. Extinguishing med | lia | | | |
| Suitable extinguishing media | | Foam. Dry powder. Carbon dioxide. W | /ater spray. Sand. | |
| Unsuitable extinguishing medi | ia : | Do not use a heavy water stream. | | |
| 5.2. Special hazards ar | ising from the subs | tance or mixture | | |
| No additional information avai | lable | | | |
| 5.3. Advice for firefight | ters | | | |
| Firefighting instructions | | Use water spray or fog for cooling exp | osed containers. Exercise caution when fighting any | |
| | | chemical fire. Prevent fire-fighting wat | | |
| Protection during firefighting | : | Do not enter fire area without proper p | protective equipment, including respiratory protection. | |
| SECTION 6: Accidenta | l rolozco mozer | | | |
| | | | | |
| | | pment and emergency procedures | | |
| 6.1.1. For non-emergenc | | | | |
| Protective equipment | : | Safety glasses. Gloves. | | |
| Emergency procedures | : | Evacuate unnecessary personnel. | | |
| 6.1.2. For emergency res | sponders | | | |
| Protective equipment | | Equip cleanup crew with proper protect | ction. | |
| Emergency procedures | : | Ventilate area. | | |
| 6.2. Environmental pre | cautions | | | |
| | | uthorities if liquid enters sewers or publi | c waters. | |
| | - | | | |
| | rial for containment | • | a day or diatamagagup conthias soon on receible. Collect | |
| Methods for cleaning up | : | soak up spills with inert solids, such a spillage. Store away from other materi | s clay or diatomaceous earth as soon as possible. Collect als. | |
| 6.4. Reference to other | sections | | | |
| See Heading 8. Exposure con | trols and personal pr | otection. | | |
| SECTION 7: Handling | and storage | | | |
| 7.1. Precautions for sa | | | | |
| Precautions for safe handling | | | with mild soap and water before eating, drinking or ide good ventilation in process area to prevent formation | |
| 7.2. Conditions for safe | e storage, including | any incompatibilities | | |
| Storage conditions | : | Protect from sunlight. Keep container | closed when not in use. | |
| Incompatible products | : | Strong bases. | | |
| Incompatible materials | : | Sources of ignition. Direct sunlight. | | |
| 7.3. Specific end use(s |) | | | |
| No additional information avai | | | | |
| SECTION 8. Exposure | controls/porse | nal protection | | |
| SECTION 8: Exposure controls/personal protection | | | | |
| 8.1. Control parameters | 5 | | | |
| | Indigo Stock Solution | | | |
| ACGIH | Not applicable | | | |
| OSHA Not applicable | | | | |
| Phosphoric Acid, 85% w/w (7664-38-2) | | | | |
| ACGIH | ACGIH TWA (mg | J/M³) | 1 mg/m³ | |
| | | | - | |

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| Phosphoric Acid, 85% w/w (7664-38-2) | | | | | |
|--------------------------------------|---|---------|--|--|--|
| OSHA | OSHA PEL (TWA) (mg/m³) | 1 mg/m³ | | | |
| Potassium Indigotrisulfonat | Determine Indigetricultanete (67607.49.5) | | | | |
| i otassium mugotrisuronat | Potassium Indigotrisulfonate (67627-18-5) | | | | |
| ACGIH | Not applicable | | | | |
| OSHA | Not applicable | | | | |
| | | | | | |
| Water (7732-18-5) | | | | | |
| ACGIH Not applicable | | | | | |
| OSHA | Not applicable | | | | |

| 8.2. Exposure controls | |
|----------------------------------|--|
| Appropriate engineering controls | : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : Wear protective gloves. |
| Eye protection | : Chemical goggles or safety glasses. |
| Respiratory protection | : Wear appropriate mask. |
| Other information | : Do not eat, drink or smoke during use. |

| SECTION 9: Physical and chemical | properties |
|---|---|
| 9.1. Information on basic physical and o | chemical properties |
| Physical state | : Liquid |
| Color | : dark blue |
| Odor | : None. |
| Odor threshold | : No data available |
| рН | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Specific gravity / density | : 1 g/ml |
| Solubility | Soluble in water. Water: Solubility in water of component(s) of the mixture : Phosphoric Acid, 85% w/w: |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |
| 9.2. Other information | |

No additional information available

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| SECTI | SECTION 10: Stability and reactivity | | | | |
|-----------|---|--|--|--|--|
| 10.1. | Reactivity | | | | |
| No additi | ional information available | | | | |
| 10.2. | Chemical stability | | | | |
| Light ser | nsitive. | | | | |
| 10.3. | Possibility of hazardous reactions | | | | |
| Not estal | blished. | | | | |
| 10.4. | Conditions to avoid | | | | |
| Direct su | inlight. Extremely high or low temperatures. | | | | |
| 10.5. | Incompatible materials | | | | |
| Strong b | ases. | | | | |
| 10.6. | Hazardous decomposition products | | | | |
| Nitrogen | oxides. Carbon monoxide. Carbon dioxide. Phosphorus oxides. | | | | |

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Not classified

| Water (7732-18-5) | | |
|---|---|--|
| LD50 oral rat | ≥ 90000 mg/kg | |
| ATE US (oral) | 90000.000 mg/kg body weight | |
| Skin corrosion/irritation | : Not classified | |
| Serious eye damage/irritation | : Not classified | |
| Respiratory or skin sensitization | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Not classified | |
| Specific target organ toxicity (single exposure) | : Not classified | |
| Specific target organ toxicity (repeated exposure) | : Not classified | |
| Aspiration hazard | : Not classified | |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. | |
| Symptoms/injuries after skin contact | : May stain the skin. | |

SECTION 12: Ecological information

12.1. Toxicity

| Phosphoric Acid, 85% w/w (7664-38-2) | | |
|---|--|--|
| LC50 fish 1 | 138 mg/l (96 h; Pisces; Pure substance) | |
| LC50 other aquatic organisms 1 | 100 - 1000 mg/l (96 h; Protozoa; Pure substance) | |
| LC50 fish 2 | 100 - 1000 mg/l (Pisces; Pure substance) | |
| LC50 other aquatic organisms 2 | 240 mg/l (Pure substance) | |
| TLM fish 1 | 138 ppm (24 h; Gambusia affinis; Pure substance) | |
| Threshold limit other aquatic organisms 1 | 100 - 1000,96 h; Protozoa; Pure substance | |
| Threshold limit other aquatic organisms 2 | 240 mg/l (Pure substance) | |

| 12.2. | Persistence and degradability | |
|--------|-------------------------------|------------------|
| Indigo | Stock Solution | |
| Persis | tence and degradability | Not established. |

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| Phosphoric Acid, 85% w/w (7664-38-2) | Diedersedebility net englischle. Na test dets an mability of the components sucilable |
|---|---|
| Persistence and degradability Biochemical oxygen demand (BOD) | Biodegradability: not applicable. No test data on mobility of the components available. |
| | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| Water (7732-18-5) | |
| Persistence and degradability | Not established. |
| I2.3. Bioaccumulative potential | |
| Indigo Stock Solution | |
| Bioaccumulative potential | Not established. |
| Phosphoric Acid, 85% w/w (7664-38-2) | |
| Bioaccumulative potential | Not bioaccumulative. |
| Water (7732-18-5) | |
| Bioaccumulative potential | Not established. |
| 12.4. Mobility in soil | |
| No additional information available | |
| I2.5. Other adverse effects Effect on ozone layer | : : |
| Effect on the global warming | : No known ecological damage caused by this product. |
| Other information | : Avoid release to the environment. |
| SECTION 13: Disposal considera | itions |
| I3.1. Waste treatment methods | |
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | : Avoid release to the environment. |
| SECTION 14: Transport informat | ion |
| n accordance with DOT | |
| Not regulated for transport | |
| Additional information | |
| Other information | : No supplementary information available. |
| | |
| ADR | |
| No additional information available | |
| Transport by sea | |
| | |
| No additional information available | |
| No additional information available Air transport | |

No additional information available

| SECTION 15: Regulatory information | | |
|---|--|--|
| 15.1. US Federal regulations | | |
| Potassium Indigotrisulfonate (67627-18-5) | | |
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Water (7732-18-5) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |

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15.2. International regulations

| CANADA | | |
|----------------------|---|--|
| igo Stock Solution | | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria | |

| Potassium Indigotrisulfonate (67627-18-5) | |
|--|---|
| Listed on the Canadian DSL (Domestic Sustances List) | |
| Water (7732-18-5) | |
| isted on the Canadian DSL (Domestic Sustances List) | |
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

| | Potassium Indigotrisulfonate (67627-18-5) |
|-------------------|---|
| | Listed on the Canadian IDL (Ingredient Disclosure List) |
| Water (7732-18-5) | |
| | Not listed on the Canadian IDL (Ingredient Disclosure List) |

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
|---------------|--|
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |

| NFPA health hazard | : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given. | |
|--------------------|--|--|
| NFPA fire hazard | : 0 - Materials that will not burn. | |
| NFPA reactivity | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. | |

| HMIS III Rating | |
|---------------------|--|
| Health | : 1 Slight Hazard - Irritation or minor reversible injury possible |
| Flammability | : 0 Minimal Hazard |
| Physical | : 0 Minimal Hazard |
| Personal Protection | : B |
| | |

SDS US (GHS HazCom 2012)

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