SAFETY DATA SHEET

Version: 4.0 Date of Issue: 03 May 2017 Date of First Issue: 07 August 2012

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



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| Product identifier used on the label | M-Line 361-40R Solder | |
|---|--|--|
| Other means of identification | Not applicable | |
| Recommended use of the chemical and restrictions | | |
| on use | | |
| Recommended use | Welding and soldering pro | ducts (with flux coatings or flux cores.), flux products |
| Restrictions on use | For professional users only | |
| Details of the supplier of the safety data sheet | | |
| Supplier | VISHAY MEASUREMENT | S GROUP, INC. |
| Address of Supplier | Post Office Box 27777 | |
| | Raleigh, NC 27611 | |
| | USA | |
| Telephone | +1 919-365-3800 | |
| Fax | +1 919-365-3945 | |
| E-Mail (competent person) | mm.us@vishaypg.com | |
| Emergency telephone number | 1-800-424-9300 | CHEMTREC (24 hours) |
| ON 2: HAZARD(S) IDENTIFICATION | | |
| Classification of the substance or mixture in | | |
| accordance with paragraph (d) of 29 CFR 1910.1200 | | |
| Physical hazards | Not classified | |
| Health hazards | Skin Sensitisation, Catego | |
| | Reproductive toxicity, Cate | |
| | Reproductive toxicity, effect | |
| | | ty — repeated exposure, Category 1 |
| Environmental hazards | Not classified | |
| Hazard Symbol | $\langle ! \rangle \langle$ | |
| | ~ | V |
| Signal Word(s) | DANGER | |
| | - | reaction |
| Signal Word(s) Hazard Statement(s) | May cause an allergic skin | |
| 5 | May cause an allergic skin May damage fertility. May | damage the unborn child. |
| | May cause an allergic skin May damage fertility. May May cause harm to breast | damage the unborn child. fed children. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs | damage the unborn child. fed children. through prolonged or repeated exposure. |
| | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions | damage the unborn child. fed children. through prolonged or repeated exposure. before use. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. ancy/while nursing. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr Do not breathe fumes/vapo | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. nancy/while nursing. bur from heated product. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr Do not breathe fumes/vapo Wash hands and exposed | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. ancy/while nursing. bur from heated product. skin thoroughly after handling. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr Do not breathe fumes/vapo Wash hands and exposed Wear protective gloves/pro | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. hancy/while nursing. bur from heated product. skin thoroughly after handling. tective clothing/eye protection/face protection. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr Do not breathe fumes/vape Wash hands and exposed Wear protective gloves/pro IF ON SKIN: Wash with pla | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. hancy/while nursing. bur from heated product. skin thoroughly after handling. tective clothing/eye protection/face protection. enty of water. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr Do not breathe fumes/vape Wash hands and exposed Wear protective gloves/pro IF ON SKIN: Wash with pla If skin irritation or rash occ | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. hancy/while nursing. bur from heated product. skin thoroughly after handling. tective clothing/eye protection/face protection. enty of water. urs: Get medical advice/attention. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr Do not breathe fumes/vap Wash hands and exposed Wear protective gloves/pro IF ON SKIN: Wash with pla If skin irritation or rash occ IF exposed or concerned: | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. hancy/while nursing. bur from heated product. skin thoroughly after handling. tective clothing/eye protection/face protection. enty of water. |
| Hazard Statement(s) | May cause an allergic skin May damage fertility. May May cause harm to breast Causes damage to organs Obtain special instructions Do not handle until all safe Avoid contact during pregr Do not breathe fumes/vap Wash hands and exposed Wear protective gloves/pro IF ON SKIN: Wash with ple If skin irritation or rash occ IF exposed or concerned: Store locked up. | damage the unborn child. fed children. through prolonged or repeated exposure. before use. ty precautions have been read and understood. hancy/while nursing. bur from heated product. skin thoroughly after handling. htective clothing/eye protection/face protection. enty of water. urs: Get medical advice/attention. |

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Other hazards

Smoke produced during soldering will contain rosin which is an allergen and can cause pulmonary irritation and damage.

Percent of the mixture consists of ingredient(s) of unknown acute toxicity:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures Substances in preparations / mixtures

| Chemical identity of the substance | %W/W | CAS No. | EC No. | Hazard classification |
|---------------------------------------|---------|-----------|-----------|--|
| Tin | 60 - 65 | 7440-31-5 | 231-141-8 | Not classified |
| Lead | 35 - 40 | 7439-92-1 | 231-100-4 | Reproductive toxicity, Category 1A Reproductive toxicity, effects on or via lactation Specific target organ toxicity — repeated exposure, Category 1 |
| Rosin | 1 - 3 | 8050-09-7 | 232-475-7 | Skin Sensitisation, Category 1 |

0%

SECTION 4: FIRST AID MEASURES



| Description of first aid measures | |
|---|---|
| Self-protection of the first aider | Do not breathe fumes. Wear suitable protective clothing. Wear suitable |
| Inhalation | respiratory protective equipment if exposure to high levels of material are likely. IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| | Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration if breathing has ceased or shows signs of |
| | failing. IF exposed or concerned: Get medical advice/attention. |
| Skin Contact | IF ON SKIN: Remove contaminated clothing and wash all affected areas with |
| | plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: |
| | Get medical advice/attention. |
| | Molten material can cause severe burns. Do NOT try to peel molten material |
| Eye Contact | from the skin. Cool rapidly with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact |
| | lenses, if present and easy to do. Continue rinsing. Get medical attention if eye |
| | irritation develops or persists. |
| Ingestion | If swallowed, rinse mouth with water (only if the person is conscious). Do not |
| Mast important symptoms and effects, both south | induce vomiting. Get medical advice/attention if you feel unwell. May cause an allergic skin reaction. May damage fertility. May damage the |
| Most important symptoms and effects, both acute and delayed | unborn child. May cause harm to breast-fed children. Causes damage to organs through prolonged or repeated exposure. |
| | Flux fumes during soldering may cause irritation and damage of mucous |
| | membranes and respiratory system. Smoke produced during soldering will contain rosin which is an allergen and can cause pulmonary irritation and |
| | damage. |
| | High atmospheric concentrations may lead to adverse effects on the central |
| | nervous system and anaesthetic effects, including drowsiness, giddiness, |
| | headache, nausea and unconsciousness. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to |
| | toxic levels. Symptoms of lead poisoning include abdominal pain, nausea, |
| | vomiting and headache. May cause gastrointestinal tract irritation if swallowed. |
| | |

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Lead poisoning may cause lassitude, weight loss, anemia, nausea, vomiting, central nervous system damage. Molten material can cause severe burns. Treat symptomatically. Notes to a physician: Notes to a physician: In case of burns immediately cool affected skin as long as possible with cold water. If thought to be overexposed, the person should have a blood-lead analysis done. Patient should be kept under medical observation for at least 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

| Extinguishing media | |
|--|---|
| Suitable Extinguishing Media | As appropriate for surrounding fire. |
| Unsuitable extinguishing Media | Do not use water on fires when molten metal is present. |
| Special hazards arising from the substance or mixture | Flux in cored solder may ignite when the solder melts in a fire. When heated to soldering temperatures, the solvent in the flux will boil away and carry up droplets of rosin and thermal degradation products such as aliphatic aldehydes, acids and terpenes. No lead or antimony are detected in fumes from soldering below 537°C. Melted solder may liberate carbon monoxide, carbon dioxide, lead oxide fumes. |
| Special protective equipment and precautions for fire fighters | Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and Ensure adequate ventilation. Use personal protective equipment as required. emergency procedures See Section: 8. Melted solder will solidify on cooling and can be scraped up. Avoid breathing smoke fumes during soldering. Use caution to avoid breathing fumes if a gas torch is used to cut up large pieces. **Environmental precautions** Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body. Methods and material for containment and cleaning Ensure suitable personal protection during removal of spillages. Allow product to up cool/solidify and pick up as a solid. Transfer to a container for disposal. Recover or recycle if possible. Dispose of this material and its container as hazardous waste.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Avoid all contact. Avoid breathing smoke fumes during soldering. Use caution to avoid breathing fumes if a gas torch is used to cut up large pieces. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. When molten: Keep from any possible contact with water. Conditions for safe storage, including any Store in a well-ventilated place. incompatibilities Storage temperature Ambient Storage life Stable under normal conditions. Incompatible materials Store away from sources of sulfur. Keep away from: Strong Acids, Alkalis, Chlorine and Strong oxidising agents. Use of strong acid fluxes may result in liberation of toxic lead chloride fumes.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m³) | STEL (ppm) | STEL (mg/m ³) | Note |
|--|-----------|------------------------|--------------------------|------------|---------------------------|--|
| Tin, metal | 7440-31-5 | - | 2 | - | - | NIOSH, OSHA, ACGIH |
| Lead and inorganic compounds (as Pb) | 7439-92-1 | - | 0.050 0.05 | - | - | NIOSH, OSHA Total Dust ACGIH, A3 |
| Rosin core solder, pyrolysis products | 8050-09-7 | - | 0.1 | - | - | NIOSH |
| Rosin core solder thermal decomposition products (colophony) | 8050-09-7 | -(L) | - | - | - | ACGIH, SEN |

Note: OSHA PELs 1910.1000 TABLE Z-1/ NIOSH RELs / ACGIH TLVs

(L) Exposure by all routes should be carefully controlled to levels as low as possible

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histological type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiological studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

SEN: Confirmed potential for worker sensitization as a result of dermal contact and/or inhalation exposure, based on weight of scientific evidence.

Biological Exposure Indices

| SUBSTANCE | CAS No. | Determinant | Biological Exposure Indices | Sampling Time | Note |
|---|-----------|---------------|--------------------------------|---------------|------|
| Lead and inorganic compounds (as Pb) | 7439-92-1 | Lead in blood | 200 µg/l | Not critical | * |

Source: 2015 ACGIH Biological Exposure Indicies (BEIs)

* Note: Persons applying this BEI are encouraged to counsel female workers of child-bearing age about the risk of delivering a child with a PbB over the current CDC reference value.

The other components listed in Section 3 do not have biological exposure indicies.

| Appropriate engineering controls | Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Local exhaust recommended. |
|---|--|
| Individual protection measures, such as personal protective equipment (PPE) | General hygiene measures for the handling of chemicals are applicable. Avoid all contact. Avoid breathing smoke fumes during soldering. Use caution to avoid breathing fumes if a gas torch is used to cut up large pieces. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place. |
| Eye/face protection | Wear eye protection with side protection (EN166). Hot/molten product: Goggles or Full face shield. |
| Skin protection | Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: |



Respiratory protection

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refer to the information provided by the gloves' producer. Hot/molten product: Use gloves with insulation for thermal protection, when needed.

Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Hot/molten product: Wear flameproof clothing.

In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment. Recommended: Dust mask/ Half-face mask (DIN EN 140), Filter type: P2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Odor Odor Threshold pН Melting Point/Freezing Point Initial boiling point and boiling range Flash Point Evaporation rate (Butyl acetate = 1) Flammability (solid, gas) Upper/lower flammability or explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature **Decomposition Temperature** Viscosity

Not available. Not available. Not available. Not available. Not available. Not applicable. Not applicable. Non-flammable. Not applicable. Not available. Not available. >1 (H2O = 1) Insoluble in water. Not available. Not available. Not available. Not available.

Silver - Grey metal in wire form

SECTION 10: STABILITY AND REACTIVITY

| Reactivity | Stable under normal conditions. |
|------------------------------------|--|
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | Flux in cored solder may ignite when the solder melts in a fire. Reacts vigorously with chlorine and oxidising agents. Use of strong acid fluxes may result in liberation of toxic lead chloride fumes. |
| Conditions to avoid | When molten: Keep from any possible contact with water. |
| Incompatible materials | Keep away from: Strong Acids, Alkalis, Chlorine and Strong oxidising agents. Store away from sources of sulfur. |
| Hazardous decomposition product(s) | When heated to soldering temperatures, the solvent in the flux will boil away and carry up droplets of rosin and thermal degradation products such as aliphatic aldehydes, acids and terpenes. No lead or antimony are detected in fumes from soldering below 537°C. Melted solder may liberate carbon monoxide, carbon dioxide, lead oxide fumes. |

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects (Substances in preparations / mixtures)

Acute toxicity - Ingestion

Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

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| Acute toxicity - Inhalation | Based upon the available data, the classification criteria are not met. |
|--|---|
| ······ | Acute Toxicity Estimate Mixture Calculation: Estimated LC50 (Dusts) > 5 mg/l. |
| Acute toxicity - Skin Contact | Based upon the available data, the classification criteria are not met. |
| | Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg |
| | bw/day. |
| Skin corrosion/irritation | Based upon the available data, the classification criteria are not met. |
| Serious eye damage/irritation | Based upon the available data, the classification criteria are not met. |
| Respiratory or skin sensitization | Skin Sensitisation, Category 1; May cause an allergic skin reaction. |
| Germ cell mutagenicity | Based upon the available data, the classification criteria are not met. |
| Carcinogenicity | Based upon the available data, the classification criteria are not met. |
| Reproductive toxicity | Reproductive toxicity, Category 1A/B; May damage fertility. May damage the unborn child. |
| | Reproductive toxicity, effects on or via lactation; May cause harm to breastfed babies. |
| STOT - single exposure | Based upon the available data, the classification criteria are not met. |
| STOT - repeated exposure | Specific target organ toxicity - repeated exposure, Category 1; Causes |
| | damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Based upon the available data, the classification criteria are not met. |
| Information on likely routes of exposure | |
| Inhalation | Possible – accidental exposure |
| Ingestion | Unlikely – accidental exposure |
| Skin Contact | Possible – accidental exposure |
| Eye Contact | Unlikely – accidental exposure |
| Early onset symptoms related to exposure | May cause an allergic skin reaction. Molten material can cause severe burns. |
| | Flux fumes during soldering may cause irritation and damage of mucous membranes and respiratory system. Smoke produced during soldering will contain rosin which is an allergen and can cause pulmonary irritation and |
| | damage. |
| | High atmospheric concentrations may lead to adverse effects on the central |
| | nervous system and anaesthetic effects, including drowsiness, giddiness, |
| | headache, nausea and unconsciousness. |
| Delayed health effects from exposure | May damage fertility. May damage the unborn child. May cause harm to breast- |
| , , | fed children. Causes damage to organs through prolonged or repeated |
| | icu children. Causes damage to organs through prolonged of repeated |
| | exposure. |
| | |
| | exposure. |
| | exposure. Lead is a cumulative poison and continuous exposure to small amounts over |
| | exposure. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning |
| | exposure. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include abdominal pain, nausea, vomiting and headache. May cause |
| Other information | exposure. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include abdominal pain, nausea, vomiting and headache. May cause gastrointestinal tract irritation if swallowed. Lead poisoning may cause lassitude, |
| | exposure. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include abdominal pain, nausea, vomiting and headache. May cause gastrointestinal tract irritation if swallowed. Lead poisoning may cause lassitude, weight loss, anemia, nausea, vomiting, central nervous system damage. |
| Other information NTP Report on Carcinogens IARC Monographs | exposure. Lead is a cumulative poison and continuous exposure to small amounts over time can raise the body's content to toxic levels. Symptoms of lead poisoning include abdominal pain, nausea, vomiting and headache. May cause gastrointestinal tract irritation if swallowed. Lead poisoning may cause lassitude, |

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability Bioaccumulative potential Mobility in soil Other adverse effects Based upon the available data, the classification criteria are not met. Estimated Mixture LC50 >100 mg/l (Fish) The organic part of the product is biodegradable. The product has low potential for bioaccumulation. (metal in wire form) The product is predicted to have low mobility in soil. (metal in wire form)

None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Additional Information

Solder can be reclaimed. This material and its container must be disposed of as hazardous waste. Dispose of wastes in an approved waste disposal facility. Dispose of contents in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

(Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods')

| | ADR/RID | IMDG | ΙΑΤΑ |
|---|----------------|---------------------|----------------|
| UN number | Not classified | Not classified | Not classified |
| UN proper shipping name | Not classified | Not classified | Not classified |
| Transport hazard class(es) | Not classified | Not classified | Not classified |
| Packing group | Not classified | Not classified | Not classified |
| Environmental hazards | Not classified | Not classified as a | Not classified |
| | | Marine Pollutant. | |
| Transport in bulk according to Annex II of MARPOL | Not applicable | | |
| 73/78 and the IBC Code | | | |
| Special precautions for user | See Section: 2 | | |

SECTION 15: REGULATORY INFORMATION

| ISCA (Toxic Substance Control Act) | Tin: Subject to 25,000 lb reporting threshold |
|---|--|
| | Lead: Subject to 25,000 lb reporting threshold |
| | Rosin: Subject to 25,000 lb reporting threshold |
| EPCRA/SARA Section 302 Extremely Hazardous Substances | All chemicals are not listed |
| EPCRA Section 313 Toxics Release Inventory (TRI) | Lead: PBT Chemical - No De Minimis limit, except for supplier notification |
| Program | purposes; Reporting Threshold = 100 pounds |
| NIOSH Occupational Carcinogen List | All chemicals are not listed |
| OSHA List of highly hazardous chemicals, toxics and reactives | All chemicals are not listed |
| NTP Report on Carcinogens (RoC) List | Lead: Reasonably anticipated to be a human carcinogen |
| Poison Prevention Packaging Act | All chemicals are not listed |
| US State Regulations | |
| California State, Proposition 65 List | Lead: Safe harbor level - NSRL: 15 (oral) ug/day; MADL: 0.5 ug/day |
| California State, Safer Consumer Products Regulations | Tin: Initial Candidate Chemicals List |
| | Lead: Initial Candidate Chemicals List, Group Member List: Lead and Lead |
| | Compounds |
| Maine State, Toxic Chemicals in Children's Products Act | Lead: COC list |
| New Jersey State Worker and Community RTK Act | Tin: RTKHSL. SHHSL |
| | Lead: RTKHSL. SHHSL |
| Pennsylvania State, Worker and Community RTK Act | Tin: Hazardous Substance List |
| | Lead: Hazardous Substance List. Environmental Hazard List |
| Rhode Island State, Hazardous Substances RTK Act | Tin: Hazardous Substance List |
| | Lead: Hazardous Substance List |
| Non-Regional | |
| IARC Monographs, List of Classifications | Lead: Group 2B |

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated substance / mixture classification. New SDS Regulation compliant with HazCom 2012 format, all sections have been updated to include new information. Please review SDS with care.

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References:

Existing Safety Data Sheet (SDS), EU Data: Harmonised Classification(s) for Rosin (CAS# 8050-09-7), Existing ECHA registration(s) for Rosin (CAS# 8050-09-7) and Tin (CAS# 7440-31-5), and the Committee for Risk Assessment (RAC) Opinion (05.12.13) for Lead (CAS# 7439-92-1): http://echa.europa.eu/documents/10162/57ceb1ac-aafc-4852-9aa5-db81bcb04da3

| GHS Classification of the substance or mixture | Classification Procedure | |
|---|--------------------------|--|
| Skin Sensitisation, Category 1 | Threshold Calculation | |
| Reproductive toxicity, Category 1A | Threshold Calculation | |
| Reproductive toxicity, effects on or via lactation | Threshold Calculation | |
| Specific target organ toxicity — repeated exposure, | Threshold Calculation | |
| Category 1 | | |

LEGEND

| ACGIH: American Conference of Governmental Industrial Hygienists | REL: Recommended exposure limit |
|--|--|
| BEI: Biological Exposure Indices (ACGIH) | SCL: Specific Concentration Limit |
| IARC: International Agency for Research on Cancer | Skin": Risk of overexposure via dermal contact |
| Irr: Irritation | STEL: Short Term Exposure Limit |
| NIOSH: National Institute of Occupational Safety and Health | TLV: Threshold Limit value |
| NTP: National Toxicology Program | TSCA: Toxic Substance Control Act |
| OSHA: The Occupational Safety & Health Administration | TWA: Time Weighted Average |
| PBT: Persistent, Bioaccumulative and Toxic | URT: Upper respiratory tract |
| PEL: Permissible exposure limit | vPvB: very Persistent and very Bioaccumulative |
| | |

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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