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· La Cración

\* 300



Safety Data Sheet

# Safety Data Sheet

143392-1998

# Section 1. Identification

Product name

: ALPHA® OM-5100 Solder Paste 63Sn/37Pb 90-3-M13

Product code

: 143395

Product type

: Solid.

Date of issue/Date of

. Soliu.

revision

: September 26 2016.

Manufacturer - Supplier	Telephone no.:	Emergency phone:
Alpha Assembly Solutions Inc. Global Headquarters 300 Atrium Drive Somerset, New Jersey 08873	Toll Free: (800) 367-5460 Main Phone: (908) 791-3000	DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted) Alpha Chemtrec# 5591
ALPHA METALS MEXICO SA DE CV Ave Nafta 800, Parque Industrial STIVA Apodaca NL 66600 Mexico	Tel: +52 81 1156-6602	Tel: 01 800 022 1400 Tel: +52 55 5559-1588
Alpha Assembly Solutions Brasil Soldas Ltda Rio Jaguarão, 1540 - Vila Buriti Manaus Amazonas 69072-055 Brasil	Tel: 55 92 3614-7400	Tel: 55 92 3614-7423

# Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION (Fertility) - Category 1A TOXIC TO REPRODUCTION (Unborn child) - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (nervous system

and reproductive organs) - Category 1
AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1

GHS label elements

Hazard pictograms





Signal word

: Danger

Hazard statements

: May damage fertility or the unborn child.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure. (nervous system,

reproductive organs)

Very toxic to aquatic life with long lasting effects.

Precautionary statements

់ស្តេចស្ថាន ទាន់ស<mark>ារតាម**នេះ**ស្តេចនេះជា</mark> នាទទ្រជាន់ នាងការសំនាំតែការ បង្អាត ជាអូមេស្សាស់ស្តេចសំណេត បង្ការគឺ ១ និះសា**មទា** ्रात्तारम् अभेन्द्रेयाकः स्टब्स् **अवर्ष् अवर्ष्** भेजनार्थः चार्नात्तान्ताः एकुन्तिः संद्रवन्तानम्बद्धारम् अनुसर्वाने स्वय् राज्यान्तिक वटाम् (अधनाकृष्युं क्षांताच कर्षाः । तक्ताः । । । १८% धर् क्षांत्रकृतिकराः ការ នេះតែកាស នៅបានធ្វើបាន និងជាត្រីនេះ ជាសម្រាប់នៃ ស្រាប់មាន ការប្រជាវិធីមន្ត្រីស្តីស្តី ក្រៅនេះជា អង្គ សមារប្ and making this the resemply alterestablished in the finishing an industrial and pale of the pales. राष्ट्र तथान्यस्य केंत्रुंद्र प्रस्काद्भारति स्टब्स्याचेत्रा या. साध्यक्षात्रेष्ट्र के विश्वनिकार विद्यार्थितः · i . नित्रा को एति हो के के के के बाद कर के दिन के अहे जा कि बाद कर प्राप्त कर ने के लिखे कि के कि के बाद कर के बाद ्याचा सुरूप होते स्वापन होते होते होते होते होते होते होते हे हे स्वापन होते होते होते होते होते होते होते होत afi koji pa ka sakodaks siklilon porpatar i indarskiloh grasi i kit stja darofi odeki organic of Lang and Carry and Constitution of the constitution of त राह्मां कर्ष मार्ग हाराब्य हुए हार्स हुई तथा, । अंग कर्य सुझारेश हा हाराब्य ह ह na ann ann ag nganggang ang ang ag ag ang mgangggan programan na annangganggang ng ga pagangangganggg हिंदु एक हो है जिल्लाक करी है है है कि जिल्लाहि ह**े एक भेजूबा है के** अहे और के लिए कि क्रिक है है कि एक है है कि एक है લ્લુલ્લા કલ્ફોડલ સ્ટ્રેક્સ હોર્ગ કહ્યો છે. કલોક માટ્ય મિડ્ડોક્ટ્ર લાલાકુંલ સફલ્ડ છે. જો અન્દરમાં <sub>ક</sub>ર કરોલા કાર્ય સ્કૃત સામા a parabang agu 100  $(M,C_{\mathbb{C}_{+}})$ le Bulgi. LHOO un i promovinami undistriction de la compania . 4 यह । अयुः वस्तुः । प्रस्तिवृद्धद्वायद्वायद्वाय रिक्त । एक के उपनयंत्रपति करणे <del>देवमध्यमध्य</del> के मानवास्त्रपति हो भाग उपक्रिय महिल्ली क्षेत्रपति । Special participation 。1996年1月1日 - 1978年1月1日 ay so let ्रेजिन्द्रभीको प्राप्तेको सेना प्रकारीम् वयनभाषु । प्राप्तिक प्रकार को वर्षाकामा प्राप्तिक स्वाप्तिको स्विक्त rang a jiga arodoon. Agaalayanori yar oo iyakaliga ji babadii त्यम्बरम् हर्षास्य अस्तित्वस्यार्थस्य, द्वीत्र पूर्वत्व तत्यमन् केर्यायन्त्रस्य स्थानस्य तत्त्वनेत् स्थानस्य सन्त्य हराका क्रिकेट के अन्यविक अविदेश अवार्ष है। अन्य विकास अवहारा हो हु बेबेब कि बेबरे, बार अन्य की प्राप्त की ÖKRIN TÜĞÜLÜ **AÇENLELE E**FT LABELLERIN ETERLER EPLEKEN EN EN DEN ER EFF STONE TO HER THE COUNTY OF THE PROPERTY OF भवाद-वर्षेत्रवं कर्मान्यः प्रमानुष्टे यक्त्यक्षे भे पूर्वे वक्त्रम्भवस्ते ।

हेंबतिहार किए का अधिकार अने को प्रकार के एक कार्यका के के किए हैं हैं के बीच कर की किए किसी के किए प्रकार के क

प्रकार प्रकारक पुरिस्का कालाई साथानाई। एकासीय राज्यन प्राप्तका (१ वर्षक । ११ वर्षक 🛍 व स्थावको ) जनवङ्ग अन्तरिक्ताना व ११ वर्षक । (१ वर्षके प्रवेषक ने

កស្នេចនៅក្នុង ០៤ ខេត្ត ស្ថិត បាន់មួយ សក្សនស្នងបត្តា na, el Bothologic an ademigraphic reprojektion grant proje an le bande de progression de la calegarità. ्राची हुन्युक्ती और एक बाहित हो के वार्त निवास के प्राथम के अध्यक्षित है। मुख्ये के विकास के बाहित के कि कार्ति हिल्लाहित हैं। प्रकोषात्त्र प्रदेश के १० अप क्षित्र के विकास के अप का का मुद्ध के अपने के अपने के अपने के अपने के कि विकास कि विकास का अपने के अपने के १० अपने कि कि के अपने कि अपने के अपने के अपने के अपने के अपने के अपने कि कि अपने कि अ तर हरा पूर्व हिस्स १८ विस्तृत स्रवृद्ध नेपालस्य स्वाह के स्वति क्षेत्र हिस्सी स्वाह है। एक बाद अस्ववकार वास्पाद ्रमा राज्य क्षेत्रक, देन करन्त्रत क्षेत्रक्रमात्रक स्कृत इन्द्राम् वैक्षयेत्रहेत्रहूर व स्वरंति । स्व व्यवकृत प्रभाव सु स्वरं कुष्टे में पुरस्तिक पर अक्कार का अविवास अक्रिया है अपने कि से प्राप्तिक के साम कि कि साम से कि कि से से से से Ademonia erakko mijaramagin geradakana, erradar, kitaki gibebahan kande ja juliese rajinimi.

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# Section 2. Hazards identification

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Response

: Collect spillage. Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
新	50-60	7440-31-5
lead	30-40	7439-92-1
rosin	1-10	-
Proprietary rosin	1-10	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

#### Description of necessary first aid measures

**Eve contact** 

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open. Get medical attention.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

Potential acute health effects

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निक्रिया, पार पुरारक्षित अनुतार <u>विविध्यात पुरा</u>व प्रोत्नावराषु स्पर्णकेले र अन्वत्यायक <mark>पोल्ला</mark>
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                                                                  का ने लहा १ तका के हो अल्बर है जिल कहे, अल्बर नका के लोहें मुख्या पर की की किया किया गया है। य
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हर्षु व्याप्त राज्या स्थापन । त्यापन हर्षे

# Section 4. First aid measures

Eye contact No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

> reduced fetal weight increase in fetal deaths skeletal malformations

: Adverse symptoms may include the following: Skin contact

> reduced fetal weight increase in fetal deaths skeletal malformations

: Adverse symptoms may include the following: Ingestion

> reduced fetal weight increase in fetal deaths skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: This material is very toxic to aquatic life with long lasting effects. Fire water

contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective

equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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्यान के जिस सम्बोदित है, उनेहा अबद्धा, का क्षानीक देशका जुन में जुड़ी कर बाह क्षेत्रकार है. रेक्ट, इ.स.च. १९५० को साम १९५४ में केंद्रियों के प्रोता के स्थान १९५५ के समाप्तिक स्थान स्थान के साम के साम के करके मेह करों हो। हुए एक एक क्षित्रकों अनुप्रकारक हु हुन्द्र के देखार एक किनावर एने क्राप्त कर की देखा। भरती, एड्राइडेडन है, उन्तान्त्रीप्रीयिवानुष्याची पहल्या कीर्य कर्मातर, क्रीम बन्न उप के अध्यक्ष पहले

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क्रिकेट्टिकेट एक प्रमान सम्बन्धित है कि मुन्ति हैं। एक्सेक्टर का प्रमान में सुन्दे । जन के हैं एक दे कुम एक कुर्यकार्यके 🚉 कार्यकार्य । हर्यमें 🖟 के एक महामानस्कार प्रश्नेष्ट्र 🗗 कार्यक्रम । व प्रस्तेष्टीय प्रकार क्रिक्ट न्तुत्र माक्क्ष्री प्राप्तान कराम विकास क्रिक्ष में अञ्चलक्षर अस्ति क्रिक्स प्राप्तान का त्या के प्राप्तान कराय ्रेस्ट्री विक्रातिकार प्राप्त व व व्यक्ति हेन्स्सिट् वस क्षाप्रकारी हैक्स प्राप्त के विक्रासिट है से प्राप्त क ार्यक्षित्रकार स्थित अस्त । या क्षेत्रपुर्व काल तक्ष्म प्रकार क्षेत्रप्रविद्यालय । एवं अन्य न्याय कर्णा क्ष्मिन ្នំពេញ ១៩១៧ នៅមាន ស្រាស់ នៅមានជាប្រជាព្រះ បានជាប្រជាព្រះ បានជាប្រជាព្រះ នៅ នៅ មាន ស្រាស់ នៅ ស្រាស់ ស្រាស់ នៅ ស महेन्स्क्रिया २० प्रकार प्रदेशक अध्यक्षित्रकोभ्रामान् । निस्ता । भूति अध्यक्षिते अधिकान्त्र अधिक । देविक । देविक । प កសាររាជមានទេ ប្រទេសកម្មការក្នុងនៅក្នុងនៅនេះ បានបង្គាល់ មិនប្រជាពីធ្វើកំពុំ នេះបានគ្រឹងសម្បតិ៍ នាមការប្រជាពីបាន ili de la compressión paigns from the control of a sound post of the control of the cont s paga intration ou a negeria internal can't bandir tarihitan il eri intributionne di paritica. om og entrope og forsvar patasonia efnignerg (kell) groperg. Votes groverer

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# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

# **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed. labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating. drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

## Occupational exposure limits

Ingredient name	Exposure limits
tin	OSHA PEL (United States, 9/2005).
	TWA: 2 mg/m³ 8 hours.
	ACGIH TLV (United States, 4/2014).
	TWA: 2 mg/m³, (as Sn) 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 2 mg/m³, (as Sn) 10 hours.
lead	OSHA PEL (United States, 5/2005).
·	TWA: 0.05 mg/m³ 8 hours.
	ACGIH TLV (United States, 4/2014). Notes: as Pb
	TWA: 0.05 mg/m³, (as Pb) 8 hours.
	OSHA PEL (United States, 2/2013). Notes: as Pb
	TWA: 50 μg/m³, (as Pb) 8 hours.
:	NIOSH REL (United States, 10/2013). Notes: See Appendix C -
	Supplemental Exposure Limits Note: The REL and PEL also apply
	to other lead compounds (as Pb).
	TWA: 0.05 mg/m³ 10 hours.

# Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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# Section 8. Exposure controls/personal protection

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid. [Paste.]

Color : Gray. Odor : Acrid.

Odor threshold : Not available. Hq : Not available **Melting point** : Not available. **Boiling point** : Not available.

Flash point : Closed cup: Not applicable.

**Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available. Vapor density : Not available. Relative density : Not available. Solubility : Not available. VOC : 39.4 g/l Partition coefficient: n-

octanol/water

: Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature Viscosity** 

: Not available. : Not available.

# Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Incompatibility with various substances

: Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids, alkalis and moisture.

: Under normal conditions of storage and use, hazardous decomposition products should

peroxides

Hazardous decomposition products

not be produced.

**Other Hazardous** decomposition products

: carbon oxides (CO, CO<sub>2</sub>), metal oxides, toxic. fumes

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

# **Section 11. Toxicological information**

Routes of entry : Dermal contact. Inhalation. Ingestion.

**Acute toxicity** 

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# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
新	LD50 Oral	Rat	>2000 mg/kg	-
lead	LD50 Oral	Rat	>5000 mg/kg	-
rosin	LD50 Dermal	Rabbit	>2.5 g/kg	-
	LD50 Oral	Mouse	>3 g/kg	-
	LD50 Orai	Rat	>4 g/kg	<b> -</b>
Proprietary rosin	LD50 Oral	Rat	>2000 mg/kg	-

# Irritation/Corrosion

Not available.

# **Sensitization**

Not available.

# **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
lead	-	Subject: Mammalian-Animal	Equivocal

# Carcinogenicity

No applicable toxicity data

### Additional information:

# Classification

Product/ingredient name	OSHA	IARC	NTP
lead	-	2B	Reasonably anticipated to be a human carcinogen.

# Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
lead	-	-	Equivocal	Rat - Female	Oral: 520 mg/kg	-
	-	-	Equivocal	Rat - Female	Inhalation: 3 mg/m³	24 hours per day
	Equivocal	-	-	Mouse - Female	Oral: 300 mg/kg	- 1
	-	Equivocal	-	Mouse	Oral: 4099.2 mg/kg	-

# **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
lead	Equivocal - Oral	Mammal -	2118 mg/kg	•
		species		
		unspecified		
	Equivocal - Inhalation	Rat	10 mg/m³	24 hours per day

# Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
lead	Category 1		nervous system and reproductive organs

# **Aspiration hazard**

Not available.

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# Section 11. Toxicological information

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate :

effects

: Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

### Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : May damage the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : May damage fertility.

#### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Oral	143329.7 mg/kg

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# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
lead	Acute EC50 105 ppb Marine water	Algae - Chaetoceros sp Exponential growth phase	72 hours
	Acute EC50 0.489 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 8000 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute LC50 530 µg/l Fresh water	Crustaceans - Ceriodaphnia reticulata	48 hours
	Acute LC50 5100 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 0.44 ppm Fresh water	Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.25 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.03 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
rosin	LC50 60.3 mg/l	Fish	96 hours

#### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Posin	3.42	-	low
Proprietary rosin	6.04	-	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

# **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-

# Section 14. Transport information

Packing group	-	-	-	-	•	-
Environmental hazards	No.	No.	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# Section 15. Regulatory information

U.S. Federal regulations

: TSCA 5(a)2 proposed significant new use rule (SNUR): No products were found.

TSCA 5(a)2 final significant new use rule (SNUR): No products were found.

TSCA 12(b) one-time export notification: No products were found.

TSCA 12(b) annual export notification: lead

Refer to Proposed Rule (59 Federal Register 11122, March 9, 1994) for

details on TSCA 12(b) applicability for lead.

**United States inventory** 

(TSCA 8b)

: All components are listed or exempted.

#### SARA 302/304

### Composition/information on ingredients

No products were found.

### **SARA 311/312**

Classification

: Delayed (chronic) health hazard

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	lead	7439-92-1	30-40
Supplier notification	lead	7439-92-1	30-40

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### Canada

WHMIS (Canada)

: Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

**International lists** 

National inventory

China

: At least one component is not listed.

Europe : All components are listed or exempted.

Japan : All components are listed or exempted.

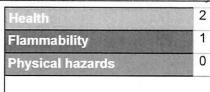
Republic of Korea : At least one component is not listed.

रक्षाच्छा । सर्वे प्राप्तके व कर्णा सम्बद्धा राज्याच्या कृति । व्याप्तका कृति । या अन्य प्रतित्र का विद्यानिक विकास प्राप्त कि<mark>या के प्रतिक विद्यानिक स्थान के स्थान के स्थान के पर का विद्यानिक स</mark> परायक्त करण पर पर प्रकार के एके काहिकाक राष्ट्र हास अवकार प्राथन हो। पर हो के वार पर प्राप्त हो है कि उपकार के 美球鞋 医乳球球性 化异苯二甲基甲基 रीक्षातीर हो मिल्या है के राष्ट्रीय क्षेत्रका कि स्थानक प्राप्त क्षेत्रिकों क्षेत्रक कर्यकार काल कर उसकार है कि वासिक नुष्क हुए ए.चे., तुन्ह स्वापन में कि पुन्न हुम विस्तृत्व हो के किन्न हो के के के प्राप्त के के का उनके कि राजितिका है। त्रा भारतक मुन्तान्यकारामा व स्वयंत् मुक्त अञ्चारको स्तृत्व हिर्मान् का तुन्हावता के हैं है है है विकास की वास् 2018年1月1日日本東京 া একীশাম একটির বিক্রিপর্কুমের জিন্ত্রের মধ্যে হয়। বিশ্ব বিক্রেপর জন জেন্ট্রের করিছের জিল্লের বিশ্ব মুক্রিয়ের ્રી કુંગ્રું એક ફિલ્ફે છે. કું નવે પ્રદાયના કુંગ્રેલો છેલે ફ્રું કહે છેલે. સામાન द्रार्केट्ट २ मेर्ट मेर्टियेन्ट्रियेट स्टब्स प्रमानिक वर्षेत्र है. राष्ट्रक निकास करेंद्र हैं, जे इसके एक्ट्रे हैं। 了。其中我们中国的基本的一种"有效的产品"的现在分词的一个。 िराव नेता प्राप्ती के स्वयंत्रिक्त के स्वयं अध्यक्षित के प्राप्त कर है कर है कर है कि स्वयं की कार कि के स्वयं erigi e da pa<del>tagaga taga da da</del> 我们一种好人的现象也有毒物。 क राष्ट्रीक स्वर्धकर्मिक विशेष विशेष विशेष विशेष स्वराधिक स्वराध । 。1970年的東西北京的東京中央公司 JURANUS SARVIO litan nagyang ngenori ाम हुन्यम् ६ । मेन्स्य स्ट्रिक्ट्रिकाम् ४ वटान्ट ing typing 1866 a face of the grade of 19 https://www.asass lenger i englission कि के ए प्रकार प्रस्ता कर Company of the

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# Section 16. Other information

### Hazardous Material Information System (U.S.A.)



### Procedure used to derive the classification

Classification	Justification
Carc. 2, H351 Repr. 1A, H360 (Fertility) Repr. 1A, H360 (Unborn child) STOT RE 1, H372 (nervous system and reproductive	Calculation method Calculation method Calculation method Expert judgment
organs) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Calculation method Calculation method

### **History**

Date of issue/Date of

: September 26 2016.

revision

Date of previous issue

: July 30 2015.

Version

: 2

Prepared by

: Regulatory Affairs Department

enthone.msds@macdermidenthone.com

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships.

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

## Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.