



MATERIAL SAFETY DATA SHEET

Components: TIN / ROSIN ACTIVATED
MSDS Number: MSDS-11
Preparation date: July, 2015
Revision date: January, 2021
Revision Level: 03

NA = Not Applicable

NE = Not Established

NAV = Not Available

Section 1.- Product and company identification

Trade Name:

Omega® Tin solder with Rosin Activated wire of different diameters, it applies to all part numbers with this alloy and resin type.

Product Name:

As indicated on the label.

Manufacturer:

Omega Aleaciones, S.A. de C.V.

Eje 132 No. 120 Zona Industrial

San Luis Potosí, S.L.P. C.P. Zip code 78395

México

E-mail: calidad@omegaaleaciones.com

Phone Number: +52 (444) 824 00 03

Fax: +52 (444) 824 11 73

Main purpose:

As solder in the metalworking and electronics industries.

Section 2.- Hazard identification

2.1 Classification of the substance or mixture



GHS07

GHS07



Omega® Tin Solder with Rosin Activated

H319: Causes serious eye irritation. Eye Irrit. 2.
H335: May causes respiratory irritation. STOT SE 3.

STOT SE: Specific target organ toxicity- single exposure

2.2 Label elements

GHS label elements

This product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

Signal word: **Warning**

Hazard Statements

H319: Causes serious eye irritation.
H335: May causes respiratory irritation.

Precautionary Statements

- P261: Avoid breathing dust/ fume/ gas/ mist/ vapours /spray.
- P264: Wash skin thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/ eye protection/ face protection.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P337 + P313: IF EYE IRRITATION PERSISTS: Get medical advice/ attention.
- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents/ container to an approved waste disposal plant.

| | |
|--------------------|---|
| OSHA/HCS status | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Emergency Overview | WARNING! |



Omega® Tin Solder with Rosin Activated

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|------------------------|---|
| | CAUSE EYE IRRITATION, SKIN AND RESPIRATORY TRACT. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. It irritates the eyes, skin and respiratory tract. Avoid contact with eyes, skin and clothing. Do not breathe the dust. Use only with adequate ventilation. Keep the container tightly closed and sealed until the time of its use. Wash thoroughly after handling. |
| Routes of entry | Inhalation and Ingestion. |

| Potential acute health effects | |
|--|--|
| Eyes | Irritating to eyes. |
| Skin | Irritates the skin. |
| Inhalation | Irritating to respiratory system. |
| Ingestion | No significant effects or critical hazards. |
| Medical conditions aggravated by overexposure | Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by overexposure to this product. |
| Chronic | TIN: It has been shown to increase the incidence of sarcoma in animal tests. ROSIN: May cause allergic skin reactions with repeated exposure. Prolonged inhalation of vapors may cause respiratory sensitization. |

Section 3.- Composition and information on components

| COMPONENT | C. A. S. NUMBER | WEIGHT % | OSHA PEL | ACGIH TLV |
|-----------------|-----------------|-----------|-----------------------|-----------------------|
| Tin | 7440-31-5 | 100 | 2.0 mg/m ³ | 2.0 mg/m ³ |
| Rosin Activated | 8050-09-7 | 0.5 – 3.3 | 0.1 mg/m ³ | 0.1 mg/m ³ |

Section 4.- First aid measures

Skin:

MOLTEN PRODUCT: In case of contact, immediately place bags of cold water for at least 15 minutes. Do not put ice directly on the skin. Do not attempt to remove the solidified product of the skin, this could cause damage. Get medical attention immediately.

SOLID PRODUCT: In case of contact, immediately wash skin with soap and plenty of water while removing contaminated clothing and shoes. Wash the clothing before wearing again. Clean the shoes completely before returning it to use. Use lotion to prevent dryness. Get medical attention if irritation persists.

Eyes:

MOLTEN PRODUCTS: Wash the burns with plenty of water at low pressure. Get immediate medical attention.

SOLID PRODUCT: Check if the victim takes contact lenses and in this case, withdraw them from it. Wash thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation develops.

Inhalation:

Move to the affected person in the open air. If you are experiencing the symptoms of overexposure, evacuate to the fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen everything that might be tight, as the collar of a shirt, tie or belt. Get medical attention immediately.

Ingestion:

Wash out mouth with water. If the person is conscious, immediately give 2 glasses of water. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious person. Get medical attention immediately.



Protection of first-aiders:

Do not take any action that involves some personal risk or that does not provide for adequate training. If it is suspected that the vapors are still present, the person in charge of the rescue you must use an appropriate mask or a self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician:

Not available.

Section 5.- Fire fighting measures

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| Flammability of the product | May be combustible at high temperatures. |
| Hazardous thermal decomposition products | Decomposition products may include the following materials: Carbon dioxide. Carbon monoxide. Metal oxide/oxides. |
| Extinguishing media Suitable | Use an extinguishing agent suitable for the surrounding fire. Alcohol foam, carbon dioxide or dry chemical. |
| Not suitable | None known. |
| Special exposure hazards | 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. No specific fire or explosion. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. |

Section 6.- Accidental release measures

If the material is in its solid state, pick up and reuse. When molten, allow to solidify, and the reuse if it is not contaminated. If contaminated, refer to section 13 for disposal information.

Personal precautions:

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 (see Section 8).

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).

Methods for cleaning up:

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a 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



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Handling:

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Avoid contact with eyes, skin and clothing. Do not ingest. 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. Do not reuse container.

Containers:

Empty containers retain product residue and can be hazardous (solids or vapors). Note the precautions in the boxes. Do not expose the containers to heat or flames. Use appropriate containment to avoid environmental contamination.

Storage:

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. 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. Keep the container away from sources of ignition. Do not store in unlabeled containers.

Other storage conditions:

The lifetime of tin base (non-ferrous) solders in solid form (bars and wires) is very long; as long as it is kept in its original packaging and under controlled storage conditions, mainly avoiding moisture and dust. Applying direct heat is the only thing that can modify its shape and physical properties. After 5-10 years it can only lose its shine, but not its functionality.

It is recommended that the relative humidity of the storage area for welding consumables does not exceed 60%, if the ambient temperature falls below 15 ° C. The storage temperature should be kept about 2 degrees above room temperature. The reason for this recommendation is to avoid moisture condensation on the consumables. It is important that the storage area is dry.
Recommended storage temperature: 10 ° C to 40 ° C.

Hygiene practices in the workplace:

Wash hands thoroughly after handling welding, before eating or smoking.

Section 8.- Exposure controls and personal protection

Engineering measures

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.

Personal protection

Eyes:

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 or dusts.

Respiratory:

Use a properly fitted, air-purifying or air-fed 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.
Use a NIOSH approved respirator when necessary.



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Hands:

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.

Skin:

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.

Ventilation:

Have adequate ventilation to keep exposure below the limits of allowable concentration in the air.

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.

| Product name | Exposure limits |
|-----------------|---|
| Tin | <p>ACGIH TLV (United States, 1/2005). TWA: 2 mg/m³ 8 hour(s). State: All forms.</p> <p>NIOSH REL (United States, 12/2001). Notes: The REL and PEL also apply to other inorganic tin compounds (as Sn) except tin oxides. TWA: 2 mg/m³ 10 hour(s). State: All forms.</p> <p>OSHA (United States, 0/1997). Notes: Respirable. TWA: 2 mg/m³</p> <p>NIOSH (United States, 0/1994). Notes: Respirable. TWA: 2 mg/m³ STEL: 4 mg/m³</p> |
| Rosin Activated | <p>NIOSH REL (United States, 12/2001). Notes: Carcinogenic in the presence of formaldehyde, acetaldehyde, or malonaldehyde. See Appendix C (Aldehydes) See Appendix A - NIOSH Potential Occupational Carcinogen. TWA: 0.1 mg/m³ 10 hour(s). Form: All forms.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 0.1 mg/m³ 8 hour(s). Form: All forms.</p> |

| Components | Nº CAS - Nº EINECS | PEL mg/m ³ | TLV-TWA mg/m ³ | TLV-STEL mg/m ³ |
|------------|---------------------|--------------------------|------------------------------|-------------------------------|
| TIN | 7440-31-5/231-141-8 | | | |
| | (USA) | 2 | 2 | - |
| | (EU) | - | 2 | 4 |
| | (Canada) | - | 2 | 4 |
| | (Singapore) | 2 | - | - |

EU = Occupational Exposure Limits of the European Union.

Section 9.- Physical and chemical properties

General data



Omega® Tin Solder with Rosin Activated

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| Physical state: | Solid |
| Shape: | Wire |
| Color: | NAV |
| Odor: | Odorless |
| Valor pH: | NA |
| Melting point: | NAV |
| Bolling point: | NAV |
| Flash point and method: | NAV |
| Flammability (solid, gas): | NAV |
| Flammable limits: | NAV |
| Vapor pressure: | NAV |
| Vapor density: | NAV |
| Specific gravity: | NAV |
| Density: | NAV |
| Autoignition temperature: | NAV |
| % Volatile: | NAV |
| Evaporation rate: | NAV |
| Dispersibility properties: | Not dispersible in the following materials: cold water, hot water, methanol, diethyl ether, n-octanol and acetone. |
| Solubility: | Partially soluble in the following materials: methanol. Slightly soluble in the following materials: cold water. Insoluble in the following materials: hot water, diethyl ether, n-octanol and acetone. |

Section 10.- Stability and reactivity

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| Stability and reactivity | The product is stable. |
| Incompatibility with various substances | Reactive or incompatible with the following materials: oxidizing materials, metals, acids and moisture. |
| Hazardous decomposition products | Under normal conditions of storage and use, should not produce hazardous decomposition products. |
| Hazardous polymerization | Under normal conditions of storage and use, hazardous polymerization will not occur. |
| Conditions of reactivity | Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Non-flammable in the presence of the following materials or conditions: heat, shocks and mechanical impacts. Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. |

Section 11.- Toxicological information

| Toxicity data | | | | |
|----------------------------|------|------------|--------|---------|
| Product name or ingredient | Test | Result | Route | Species |
| Tin | LD50 | 2000 mg/kg | oral | rat |
| | LD50 | 2000 mg/kg | dermal | rabbit |
| | LDLO | 388 mg/kg | oral | duck |
| Rosin Activated | LD50 | 2.2 g/kg | oral | mouse |
| | LD50 | 3 g/kg | oral | rat |



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| Chronic effects on humans | Carcinogenic effects: Classified None. By NIOSH [Tin]. Classified 4 (Probably not for humans.) By IARC, None. By IARC [resin acids and rosin, hydrogenated]. Contains material which causes damage to the following organs: lungs, upper respiratory tract, skin, eyes and thyroid. |
| Other toxic effects on humans | Hazardous by the following route of exposure: of skin contact (sensitizer), of ingestion, of inhalation (lung sensitizer). |

| Specific effects | |
|---|---|
| Carcinogenic effects | No significant effects or critical hazards. |
| Mutagenic effects | No significant effects or critical hazards. |
| Teratogenicity / Reproductive toxicity | No significant effects or critical hazards. |

Section 12.- Ecological information

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|---|--|
| Environmental precautions | No significant effects or critical hazards. |
| Products of degradation | Products of degradation: carbon oxides (CO, CO ₂) and water. Metal oxides. |
| Toxicity of the products of biodegradation | The products of degradation are more toxic than the product itself. |

| Ecotoxicity data | | | |
|-----------------------------------|--------------------------------|---------------|---------------|
| Product name or Ingredient | Species | Period | Result |
| Rosin Activated | Daphnia magna (EC50) | 48 hours | 3.8 -5.4 mg/L |
| | Desmodesmus Subspicatus (EC50) | 72 hours | 400 mg/L |

| Environmental Impact Data: (percentage by weight) | | | | | |
|--|-------------|------------------|-------------|-------------|------------|
| CFC: | HFC: | Cl. Solv: | VOC: | HCFC | ODP |
| 0 | 0 | 0 | 0 | 0 | 0 |

Section 13.- Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations (refer to section 7 and Section 8).

If hazardous under 40 CFR 261, subparts b and c, material must be treated or disposed in a facility meeting the requirements of 40 CFR 254 or 265. If non-hazardous, material should be disposed in a facility meeting the requirements of 40 CFR 257. These criteria apply E.U.A. To classify the type of material in Mexico should refer to the Official Mexican Standard NOM-052-SEMARNAT-2005.



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Resource Conservation and Recovery Act (RCRA), Status of Unused Material: If discharged in unaltered form, material should be tested to determine if it must be classified as a hazardous waste for disposal purposes. Under specific circumstances, application can be made to the EPA administrator to have a particular waste designated non-hazardous.

Section 14.- Transport information

| Regulatory information | ONU number | Proper shipping name | Class | PG* | Label | Additional information |
|------------------------|---------------|----------------------|-------|-----|-------|------------------------|
| DOT Classification | Not regulated | - | - | | - | - |
| TDG Classification | Not regulated | - | - | | - | - |
| ADR/RID Class | Not available | - | - | | - | - |
| IMDG Class | Not regulated | - | - | | - | - |
| IATA-DGR Class | Not regulated | - | - | | - | - |

PG*: Packing group.

| | |
|---------------|--|
| Ground | Not regulated |
| Air | Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations. UN Number: None. UN Pack Group: NA. UN Class: Non Hazardous. ICAO/IATA: Non Hazardous. Shipping Name: Non Hazardous. |
| Sea | Not regulated |

DOT (Department of Transportation),
 Proper Shipping Name: Not regulated by DOT.

Section 15.- Regulatory information

| United States | |
|--------------------------------|--|
| HCS Classification | Toxic material. Target organ effects. |
| USA Federal regulations | TSCA 6 proposed risk management: No products were found. TSCA 8(a) PAIR: No products were found. TSCA 8(a) IUR: Partial exemption. TSCA 8(b) inventory: Tin. TSCA 8(d) H and S data reporting: No products were found. TSCA 12 (b) annual export notification: No products were found. United States inventory (TSCA 8b): Not determined. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Rosin; Tin. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Rosin: Immediate (acute) health hazard, Delayed (chronic) health hazard; Tin: Immediate (acute) health hazard. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. |



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| | <p>Clean Air Act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4): Reportable ingredients: No products were found.</p> <p>TSCA (Toxic Substances Control Act of 1976, USA): All substances are TSCA listed or exempt from listing.</p> <p>CAA (Clean Air Act, USA): This product does not contain any class 1-ozone depletors. This product does not contain any class 2-ozone depletors. This product does not contain any chemicals listed as hazardous air pollutants.</p> <p>California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA): When used for soldering and similar applications chemicals may be produced which are known to some states to cause birth defects or other reproductive harm.</p> <p>EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45): This product contains the following chemicals subject to the reporting requirements of Section 313 of Title III of the SARA of 1986 and 40 CFR part 372: No products were found.</p> |
|--|--|

| SARA 313 | | | |
|---------------------------------|--------------|------------|---------------|
| | Product name | CAS number | Concentration |
| Form R - Reporting requirements | - | - | - |
| Supplier notification | - | - | - |

SARA 313 notifications must not be detached from the Material Safety Data Sheets (MSDS) and any copying and distribution shall include copying and distribution of the notice attached to copies of the MSDS subsequently redistributed.

| | |
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| State regulations of the USA | <p>Connecticut Carcinogen Reporting: None of the components are listed.</p> <p>Connecticut Hazardous Material Survey: None of the components are listed.</p> <p>Florida Substances: Tin, Rosin.</p> <p>Illinois Chemical Safety Act: None of the components are listed.</p> <p>Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.</p> <p>Louisiana Reporting: None of the components are listed.</p> <p>Louisiana Spill: None of the components are listed.</p> <p>Massachusetts Spill: None of the components are listed.</p> <p>Massachusetts RTK Hazardous Substances: Tin.</p> <p>Michigan Critical Material: None of the components are listed.</p> <p>Minnesota Hazardous Substances: Tin, Rosin.</p> <p>New Jersey Hazardous Substances: None of the components are listed.</p> <p>New Jersey Spill: Tin.</p> <p>New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.</p> <p>New Jersey RTK Hazardous Substances: Tin.</p> <p>New York Acutely Hazardous Substances: None of the components are listed.</p> <p>New York Toxic Chemical Release Reporting: None of the components are listed.</p> |
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| | Pennsylvania RTK Hazardous Substances: Tin. Rhode Island Hazardous Substances: Tin. |
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This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| - | - | - | - | - |

Section 16.- Other information

References:

- ACGIH, Threshold Limit Values, 1994-1995.
- IATA, Dangerous Goods Regulations, 37th edition (January 1, 1996).
- NFPA, Fire Protection Guide to Chemical Hazards, 11th edition.
- NIOSH, Pocket Guide to Chemical Hazards, revision June 1994.
- TSCA (Toxic Substance Control Act), Chemical Substance Inventory List, 1985.
- CFR29, OSHA's Permissible Exposure Limits, revision July, 1993.
- CFR29, part 1910.1200, Hazard Communication.
- CHEMTOX database.
- Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- CSST (Commission de Santé et Sécurité au Travail), document #RT-12: Classification of Certain Chemical Substances.
- CRC Handbook of chemistry and physics, 67th edition, CRC Press Inc., Boca Raton, Florida.
- Sigma-Aldrich handbook of fine chemicals, 1998.
- The United Nations Economic Commission for Europe. Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Rev 5, 2013.
- Mexican Official Standards
 - NOM-004-SCT2-2008, Sistema de identificación de unidades destinadas al transporte terrestre de materiales y residuos peligrosos.
 - NOM-005-STPS-1998, Relativa a las condiciones de seguridad en los centros de trabajo para el manejo, transporte y almacenamiento de sustancias químicas peligrosas.
 - NOM-008-SCFI-2002, Sistema general de unidades de medida. México.
 - NOM-010-STPS-2014, Agentes químicos contaminantes del ambiente laboral- Reconocimiento, evaluación y control.
 - NOM-018-STPS-2015, Sistema para la identificación y comunicación de peligros y riesgos por sustancias químicas peligrosas en los centros de trabajo.

Section 17.- Additional information

This information of Safety Data Sheet is considered accurate but is not exhaustive and shall only be used as a guideline based on current knowledge of the chemical substance or mixture. Safety precautions suitable for the product must be applied.

This material safety data sheet is only for information, consideration and investigation. Omega Aleaciones, S.A. de C.V. not warrant or assume responsibility for the accuracy or correctness of the data content and not responsible for any damage from handling or contact with the above product. Expressly disclaims to the civil liability, loss or damage by the use of this information. Please read the information in this sheet and turn to the person responsible for your company; this as compliance with federal and state laws. This information should be available to any employee who requests.