

Code: R-HS-SI-GR-01	Date of Issue: 10/01/2018	Date of Revision: 10/01/2018	Revision: 00
Generated by: Industrial Safety Coordinator		Approved by: Environment Health and Safety Chief	



**GHS
Material Safety Data Sheet**

SECTION I. IDENTIFICATION OF THE SUBSTANCE

MANUFACTURER DETAILS Recicladora Industrial de Acumuladores S.A. de C.V. Carretera a Villa de García km 1.2 Int. 11, Santa Catarina, Nuevo León, México CP 66350 FOR MORE INFORMATION: (81) 8122-72-00 / 8122-72-39 / 8122-72-40	PRODUCT NAME: RECOMMENDED USE: Not Determined CHEMICAL FAMILY / CLASSIFICATION: Heavy metals Emergency telephone number: 01 (81) 8122-72-00 / 8122-72-39 / 8122-72-40	*Lead Lead Metallic Communication Intervention Emergency 24 hours / Ask the Head of Security
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SECTION II: HAZARDS IDENTIFICATION



Signal Word: Danger

Categoría:	Códigos GHS	Descripción
Health: Danger	H360 FD H362	It can harm fertility. It can harm the fetus It can harm children fed with breast milk
	H372	Causes damage to organs through prolonged or repeated exposure
	H410	Very toxic to aquatic organisms, with long-lasting harmful effects
Management: Prevention	P201 P260 P263 P280 P308+P313	Ask for special instructions before use. Do not breathe the dust. Avoid contact during pregnancy / lactation. Wear protective gloves / goggles. IN CASE of manifest or presumed exposure: consult a doctor.

WARNING: Heavy metals such as metallic lead exposed to high temperatures generate toxic fumes and dust

Reactivity: Without information

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SECTION III. COMPOSITION/ INFORMATION ON INGREDIENTS

<i>Ingredients</i>	<i>Number CAS</i>	<i>% weight</i>
Inorganic compounds from: Lead	7439-92-1	100

SECTION IV. FIRST AID MEASURES

Take the proper precautions to ensure your own health and safety, before attempting to rescue a victim and offering first aid.

- After Inhalation:** Provide fresh air. If discomfort appears or in case of doubt consult a doctor.
- After skin contact:** Not Determined
- After eye contact:** Wash carefully with water for several minutes. If discomfort appears or in case of doubt consult a doctor.
- After swallowing:** In case of accident or discomfort, see the doctor immediately (if possible, show the label).

SECTION V. FIREFIGHTING MEASURES

- Ignition point:** Does not apply
- Flammability limits:** Not Determined
- Medium for extinction:** Carbon dioxide, chemical foam; dry chemicals

Procedures for extinguishing fires:
Coordinate the extinction measures with the surroundings water spray, chemical foam, dry extinguishing powder, carbon dioxide.

Hazardous combustion products:
No fuel

SECTION VI: ACIDENTAL RELEASE MEASURES

The use of adequate protective equipment (including the personal protective equipment mentioned in section 8 of the Safety Data Sheet) in order to avoid any possible contamination of the skin, eyes and clothing. Do not breathe the dust. Avoid contact with skin, eyes and clothing.

SECTION VII. HANDLING AND STORAGE

- Handling:**
Not Determined
- Storage:**
Store in a dry place.
- Charging:**
Not Determined

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Ingredients</i>	Personal exposure limits (mg/m3)		
	US OSHA	UE	STPS NOM-010-STPS-2014
Inorganic compounds from: Lead	0.05	0.15	0.05

NOTES:

- Design controls (Ventilation):**
Utilization of local and general ventilation.
- Protection of the respiratory system (approved NIOSH / MSHA equipment):**
None is required under normal conditions. When it is detected that lead concentrations exceed the permissible exposure limit (PEL), a respiratory protection system approved by NIOSH or MSHA must be used.
- Skin care:**
Rubber gloves and uniform.
- Eye protection:**
Not Determined
- Other protection:**
Not Determined

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SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point @ 760 mm Hg	Not Determined		Specific density @ 77oF (H ₂ O = 1)	5.280 kg/m ³
Melting point	707.36 °F		Vapor pressure (mm Hg)	Not Determined
% Water solubility	Not Determined		pH	Not Determined
Evaporation rate (butyl acetate = 1)	Not Determined		Vapor density (Air = 1)	Not Determined
Appearance and odor threshold	Not Determined		Viscosity	Not relevant (solid matter)
Partition coefficient Octanol Water (Kow)	Not Determined		% Volatile by volume @ 70°F	Not Determined

SECTION X. STABILITY AND REACTIVITY

10.1 Reactivity

This material is not reactive under normal environmental conditions

10.2 Chemical stability

The material is stable under normal environmental conditions and under predictable temperature conditions and pressure during storage and handling.

10.3 Possibility of dangerous reactions

Strong reactions with: Fluor, Nitric acid

10.4 Conditions to be avoided

There are no known particular conditions that should be avoided.

10.5 Incompatible materials

No additional information

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION XI. TOXICOLOGICAL INFORMATION

Acute toxicity

It will not be classified as acute toxicity.

Route of exposure	Parameter	Value	Species	Source
Oral	DL50	>2.000 mg/kg	rat	ECHA
Skin	DL50	>2.000 mg/kg	rat	ECHA

Corrosion or skin irritation

It will not be classified as corrosive / irritating to the skin.

Serious eye injuries or eye irritation

It will not be classified as causing serious eye damage or as an eye irritant.

Respiratory or skin sensitization

It will not be classified as a respiratory sensitizer or skin sensitizer.

Reproductive toxicity

It can harm children fed with breast milk It can harm fertility. It can harm the fetus.

Specific toxicity in certain organs - single exposure

It is not classified as specific toxic in certain organs (single exposure).

Specific toxicity in certain organs - repeated exposure

Causes damage to organs after prolonged or repeated exposure

SECTION XII ECOLOGICAL INFORMATION

Toxicity

Very toxic to aquatic organisms, with long-lasting harmful effects.

Aquatic toxicity (acute)

Very toxic for aquatic organisms

Parameter	Value	Specie	Source	Exhibithion time
LC50	1.170 ug/I	pez	ECHA	96 h
ErC50	123 ug/I	alga	ECHA	72 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment

Parameter	Value	Specie	Source	Exhibithion time
ErC50	388 ug/I	Alga	ECHA	2 d
NOEC	48 ug/I	fish	ECHA	90 d
LOEC	>2.073 ug/I	fish	ECHA	28 d
Increase (Cebx) 10%	>391.8 ug/I	fish	ECHA	5.70 d

SECTION XIII. DISPOSAL CONSIDERATIONS

Methods for waste treatment

Eliminate the product and its recipient as dangerous waste. Dispose of contents / container in accordance with local, regional, national or international regulations.

Relevant information for the treatment of wastewater

Do not throw the waste down the drain. Avoid your release

SECTION XIV. TRANSPORT INFORMATION

- **Number ONU:** 3077
- **Official United Nations transport designation:** POTENTIALLY HAZARDOUS SOLID MATTER FOR THE ENVIRONMENT.
- **Hazard class (s) for transport**
- **Class: 9 (different hazardous materials and objects) (danger to the environment)**
- **Transport in bulk according to Annex II of the MARPOL Convention and the IBC Code:**
The bulk transport of the goods is not foreseen.
- **Information for each of the Model Regulations of the United Nations**
Transport of dangerous goods by road, rail or waterway
(ADR / RID / DNA)



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SECTION XV. REGULATORY INFORMATION

Unit State of America:

<u>Toxic chemical product</u>	<u>CAS Number</u>	<u>% approximate weight</u>
Lead	7439-92-1	42-70

TSCA: Each chemical ingredient included in Section III of this MSDS is also found in the TSCA Registry.

OSHA: Dangerous according to the Risk Communication Law (29CFR1910.1200)

México:

NOM-010-STPS-2014

Chemical agents polluting the work environment-recognition, evaluation and control.

NOM-018-STPS-2015

Harmonized system for the identification and communication of hazards and risks by hazardous chemical substances in work centers.

NOM-047-SSA-2014

Environmental health-biological exposure indices for personnel occupationally exposed to chemical substances.

SECTION XVI. OTHER INFORMATION

PREPARED BY: DEPARTMENT OF SECURITY, HEALTH AND THE ENVIRONMENT
Recicladora Industrial de Acumuladores S.A. DE C.V.

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