SAFETY DATA SHEET (SDS)

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name: Intradin (Shanghai) Import & Export Co., Ltd.
Address: No.118 Duhui Doad, Minhang District, Shanghai 201109, China
Product Name: SOLDER CORE ACID 60%TIN40%LEAD
Tel: +86-6490 8190-6626
Emergency Telephone: +86-13301952716
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2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Toxic to reproduction - Category 1a
Specific target organ toxicity (repeated exposure) - Category 1
Aquatic hazard (acute) - Category 1
Aquatic hazard (long-term) - Category 1

GHS label elements, including precautionary statements

Pictogram(s):

Signal word: Danger
Hazard statement(s):
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure. (nervous system, reproductive organs)
Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
General: Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Avoid release to the environment. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response: Collect spillage. IF exposed or concerned: Get medical advice or attention.
Storage: Store locked up.
Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not result in classification

no data available

3: COMPONENTS INFORMATION

Chemical Name	Proportion (%)	CAS No.	EINECS No.
Tin	60.0	7440-31-5	231-141-8
Lead	40.0	7439-92-1	231-100-4

4: FIRST AID MEASURES

Description of necessary first-aid measures
Eye 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.
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. 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
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: 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
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

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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)

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
nitrogen oxides
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.

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 specialized 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 non-emergency 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.

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. See Section 10 for incompatible materials before handling or use.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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:
Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
a) Appearance: Form: Solid
Colour: Gray
b) Odour: No data available
c) Odour Threshold: No data available
d) pH: No data available
e) Melting point/freezing point: >180 °C
f) Initial boiling point and boiling range: No data available
g) Flash point: >70 °C

h) Evaporation rate: No data available
i) Flammability (solid, gas): No data available
j) Upper/lower flammability or explosive limits: No data available
k) Vapour pressure: No data available
l) Vapour density: No data available
m) Relative density: No data available
n) Water solubility: Dissolve in water
o) Partition coefficient: n-octanol/water: No data available
p) Auto-ignition temperature: No data available
q) Decomposition temperature: No data available
r) Viscosity: No data available
s) Explosive properties: No data available
t) Oxidizing properties: No data available

Other safety information
No data available

10: STABILITY AND REACTIVITY DATA

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
Conditions to avoid: No specific data.
Incompatibility with various substances: Reactive or incompatible with the following materials: oxidizing materials, reducing materials, metals, acids, alkalis and moisture. Chlorine, peroxides
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other Hazardous decomposition products: metal oxides, toxic. fumes
Hazardous polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

11: TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
lead	LD50 Oral	Rat	>5000 mg/kg	-
tin	LD50 Oral	Rat	>2000 mg/kg	-
Ammonium salt.	LD50 Oral	Rat	1650 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation

Ammonium salt.	Eyes - Mild irritant Eyes - Severe irritant	Rabbit Rabbit	- -	24 hours 500 milligrams 100 milligrams	- -

Sensitization

Not available.

Mutagenicity

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

Carcinogenicity

Not available.

Reproductive toxicity

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

Teratogenicity

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

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs

lead	Category 1	-	nervous system, reproductive organs

Aspiration hazard
Not available.

Information on the likely routes of exposure Potential acute health effects: Dermal contact. Eye contact. Inhalation. Ingestion.
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.

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.

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
Not available.
General: Causes damage to organs through prolonged or repeated exposure.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Reproductive toxicity: May damage fertility or the unborn child.

Numerical measures of toxicity
Acute toxicity estimates
Not available.

12: ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
lead	Acute EC50 105 ppb Marine water	Algae - Chaetoceros sp. - Exponential growth phase Algae - Ulva pertusa Aquatic plants - Lemna minor Crustaceans - Ceriodaphnia reticulata Daphnia - Daphnia magna Fish - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling) Algae - Ulva pertusa Fish - Cyprinus carpio Algae - Hormosira banksii - Gamete Crustaceans - Macrobrachium rosenbergii - Post-larvae Daphnia - Daphnia magna - Young Fish - Oncorhynchus mykiss Daphnia - Daphnia obtusa Algae - Entomoneis punctulata - Exponential growth phase Crustaceans - Crangonyx sp. - Juvenile (Fledgling, Hatchling, Weanling) Fish - Ictalurus punctatus - Fry	72 hours
	Acute EC50 0.489 mg/l Marine water		96 hours
	Acute EC50 8000 µg/l Fresh water		4 days
	Acute LC50 530 µg/l Fresh water		48 hours
	Acute LC50 4400 µg/l Fresh water		48 hours
	Acute LC50 0.44 ppm Fresh water		96 hours
	Chronic NOEC 0.25 mg/l Marine water		96 hours
	Chronic NOEC 0.03 µg/l Fresh water		4 weeks
Ammonium salt.	Acute EC50 0.07 mg/l Marine water		72 hours
	Acute LC50 20 µg/l Fresh water		48 hours
	Acute LC50 390 µg/l Fresh water		48 hours
	Acute LC50 80 µg/l Fresh water		96 hours
	Chronic EC10 0.03 mg/l Fresh water		21 days
	Chronic NOEC 0.6 mg/l Marine water		72 hours
	Chronic NOEC 330 µg/l Fresh water		21 days
	Chronic NOEC 0.006 mg/l Fresh water		30 days

Persistence and degradability
Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ammonium salt.	-3.2	-	low

Mobility in soil Soil/water partition coefficient (KOC): Not available.

Other adverse effects: No known significant effects or critical hazards.

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 nonrecyclable 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.

14: TRANSPORT INFORMATION

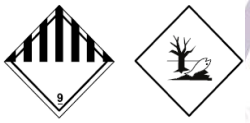
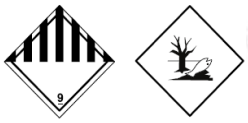
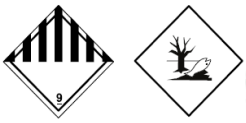
UN Number

ADR/RID: UN 3077	IMDG: UN 3077	IATA: UN 3077

UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead)	IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead)	IATA: Environmentally hazardous substance, solid, n.o.s. (lead)

Transport hazard Class(es)

ADR/RID: 9	IMDG: 9	IATA: 9
		

Packaging group

ADR/RID: III	IMDG: III	IATA: III

Environmental hazards

IMDG Marine pollutant: YES

Additional information:	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
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.

15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the
European Inventory of Existing Commercial Chemical Substances (EINECS): Listed.
EC Inventory: Listed.
United States Toxic Substances Control Act (TSCA) Inventory: Listed.
China Catalog of Hazardous chemicals 2015: Not Listed.

New Zealand Inventory of Chemicals (NZIoC): Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed.
Vietnam National Chemical Inventory: Listed.
China Chemical Inventory of Existing Chemical Substances (China IECSC): Listed.
Korea Existing Chemicals List (KECL): Listed.

16: OTHER INFORMATION

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.

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