

TECH LINE Coatings

SAFETY DATA SHEET

Section 1 – Identification

Product Identifier: RI 128-Y Corrosion Inhibitor

Other means of identification: Not Available

Part Number: RI 128-Y

Product Type: Liquid

Recommended Use: Corrosion resistance

Restrictions on Use:

Manufacturer / Supplier:

Tech Line Coatings, Inc

26844 ADAMS AVE.

MURRIETA, CA 92562

USA

Phone/Fax 1-865-773-0597

www.techlinecoatings.com

Industrial Use Only

Keep out of reach of children.

Emergency Phone: N. America +1-800-535-5053

Intl. +1-352-323-3500

Section 2 – Hazards Identification

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

Classification of the substance or mixture: Corrosive – Category 3

Symbols:



Signal Word: Warning

Precautionary statements

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

Response : IF exposed or concerned: Get medical attention. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.

Storage : Store locked up.

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

Hazards not otherwise classified:

Section 3 – Composition / Information On Ingredients

Product Code: RI 128

Component Name	Common Name / Synonyms	CAS#	% of Weight
Aluminum	Atomized Aluminum powder	7429-90-5	<70%
Water		7732-18-15	<30%
Phosphoric Acid	H3O4P	7664-38-2	<10%

Components not listed above are non-hazardous.

Section 4 – First Aid Measures

General advise:

- Consult a physician. Show this Safety Data Sheet to the doctor in attendance. Move out of dangerous area.

After EYE Contact:

- Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

After 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 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

After 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.

After SWALLOWING:

- Get medical attention immediately. Call a poison center or physician. 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. 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

Inhalation: No known significant effects or critical hazards.

Ingestion: Harmful if swallowed.

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: No specific data.

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

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large 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 fumes 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 section 11 for additional information

Section 5 – Fire Fighting Measures

Not Flammable

Extinguishing Media:

- Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Media:

- None Known

Special Fire Fighting Procedures:

- Use full protective equipment, including self contained breathing apparatus

Unusual Fire And Explosion Hazards:

- During emergency conditions, overexposure to decomposition products may cause a health hazard.

Specific Hazards Arising from the Chemical:

- Water runoff can cause environmental damage, dike and collect water used to fight fire.
- In a fire or if heated, a pressure increase will occur and the container may burst

Decomposition products may include the following materials:

- metal oxide/oxides
- phosphorus oxides

Special protective actions for fire-fighters :

- 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.

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. Do not breathe vapor or mist. 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).

Methods and materials for containment and cleaning up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Additional Information:

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. 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. 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.

Conditions for safe storage: Store at 55-90°F (13-32°C).

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	NIOSH REL
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Aluminum, Atomized	1 mg/m ³	Total dust 15 mg/m ³ Repairable Fraction 5 mg/m ³	5 mg/m ³
Phosphoric Acid	1 mg/m ³	1 mg/m ³	1 mg/m ³

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 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 side-shields.

Skin protection:

Hand protection: 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. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products. 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, 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
Color : Yellow
Odor : Slightly musty smell to no odor
Odor Threshold: Not Established
pH : 1.8 to 2.6

Melting point / Freezing point:	Not Established
Initial boiling point :	Not Established
Flash point :	> 212° F (Water based)
Evaporation Rate:	Not Established
Upper/lower flammability or explosive limits:	Not Established
Vapor pressure	Not Established
Vapor density	Not Established
Relative density	Not Established
Solubility(ies)	Water: somewhat soluble
Partition coefficient: n-octanol/water	Not Established
Auto-ignition temperature	Not Established
Decomposition temperature	Not Established
Viscosity	Not Established
Total VOC	0 lbs/gal

SECTION 10 STABILITY AND REACTIVITY

Reactivity	No data available on mixture
Chemical stability	Stable
Possibility of hazardous reactions	No data available on mixture
Conditions to avoid (e.g., static discharge, shock, or vibration)	No data available on mixture
Incompatible materials	Magnesium, strong alkali's, strong reducing agents, strong oxidizing agents.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous products should not be produced.

SECTION 11 TOXICOLOGICAL INFORMATION

Carcinogenicity: Not available.

Classification

Product/ingredient name **OSHA** **IARC** **NTP**

Mutagenicity: Not available.

Teratogenicity: Not available

Reproductive toxicity: Not available.

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Information on the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation.

Inhalation : No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

Skin contact : May cause skin irritation.

Eye contact : No known significant effects or critical hazards.

Symptoms related to the physical , chemical and toxicological characteristics

Eye contact: No specific data
Inhalation: No specific data
Skin contact: No specific data
Ingestion: No specific data

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:

Not available

General : No known significant effects or critical hazards.

Carcinogenicity : IARC Not Listed; NTP Not Listed

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Acute Toxicity

Aluminum, Atomized	Oral LD50	LD50 Oral - rat - >2,000 mg/kg
	Inhalation LC50	LC50 Inhalation - rat - >888 mg/m3
	Dermal LD50	No data available
Phosphoric Acid	Oral LD50	LD50 Oral - rat – 1,530 mg/kg
	Inhalation LC50	LC50 - rabbit – 5.337 mg/l Exposure time: 1 h
	Dermal LD50	LD50- rabbit – 1,260 mg/kg

Skin Corrosion/Irritation

This mixture has been tested using the Corrositex test method in compliance with EPA method 1120, and the OECD Guideline For The Testing Of Chemicals number 435, and found to be **not** corrosive.

Carcinogenicity

IARC: Not Listed

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: Not Listed

SECTION 12 ECOLOGICAL INFORMATION

General Comments: Do not allow material to be released into the environment without proper governmental permits

Environmental Toxicity:

Aluminum, Atomized

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available

Phosphoric Acid

Toxicity to fish	LC50: 75.1 mg/l Exposure time: 96 h Species: Oryzias latipes (Japanese medaka)
Toxicity to daphnia and other aquatic invertebrates	EC50: 376 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	EC50: 32 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0.8 mg/l - 48 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Disposal should be made in accordance with federal, state and local regulations. Recovered non-usable material is a RCRA hazardous waste. Treatment, storage, transportation and disposal must be in accordance with EPA and State regulation under the authority of the Resource Conservation and Recovery Act (RCRA) 40 CFR parts 260-271. A competent and properly permitted contractor should do appropriate disposal.

SECTION 14 TRANSPORTATION INFORMATION

Hazardous for Shipping: Not regulated or restricted for shipping

SECTION 15 REGULATIONS

Other Regulations, Limitations, and Prohibitive Regulations:

International Inventories

All of the components in this product are on or exempt from the following inventories:

USA (TSCA), CANADA (DSL / NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

International Inventory Legend

- TSCA: US - Toxic Substance Control Act
- DSL: Canada - Domestic Substance List
- NDSL: Canada - Non-Domestic Substance List
- IECSC: China - Inventory of Existing Chemical Substances China
- EINECS: EU Inventory of Existing Commercial Chemical Substances
- ELINCS: EU List of Notified Chemical Substances
- ECL: Korea - Existing Chemicals List
- AICS: Australia - Inventory of Chemical Substances
- ENCS: Japan - Existing and New Chemical Substances
- PICCS: Phillipines - Inventory of Chemicals and Chemical Substances

U.S. Regulations:

Component	SARA 302	SARA 311 / 312	SARA 313	Massachusetts RTK	Pennsylvania RTK	New Jersey RTK	California Prop 65 list
Phosphoric Acid	No	Yes	No	Yes	Yes	Yes	No

SARA 311 / 312 Hazards: Acute Health Hazard, Chronic Health Hazard

SECTION 16

OTHER INFORMATION

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