



Expect Service

Radiation Products Design Inc

MATERIAL SAFETY DATA SHEET

RPD INFORMATION

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RPD PRODUCT INFORMATION

RPD is an authorized distributor

Item Number	Description
3051-902	Leaded Vinyl Sheet, 2' x 3' x 1/16" .50mm Lead Equiv
3051-903	Leaded Vinyl Sheet, 2' x 3' x 1/8" 1.00mm Lead Equiv.

Material Safety Data Sheet

Material Name: Cost Cruncher

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

Bar Ray Products Inc.
95 Monarch Street
Littlestown, PA 17340

Phone: 717-359-9100

*** Section 2 - Hazards Identification ***

Emergency Overview

Product is an article as defined by OSHA 1910.1200. No hazards are anticipated while using this product as manufactured.

Potential Health Effects: Eyes

None anticipated when using this product as manufactured.

Potential Health Effects: Skin

None anticipated when using this product as manufactured.

Potential Health Effects: Ingestion

Not a likely route of exposure under normal product use conditions.

Potential Health Effects: Inhalation

None anticipated when using this product as manufactured.

HMIS Ratings: Health: 0 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
7439-92-1	Lead	70-90
Not Available	PVC Plasticizer	10-30

*** Section 4 - First Aid Measures ***

First Aid: Eyes

No special first aid measures needed.

First Aid: Skin

No special first aid measures needed. If irritation occurs, wash hands thoroughly with soap and water.

First Aid: Ingestion

No special first aid measures needed.

First Aid: Inhalation

No special first aid measures needed.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.
None anticipated.

Hazardous Combustion Products

When burned or subjected to temperatures in excess of 300°F for excessive time, hydrogen chloride is emitted.
Avoid breathing combustion products or use self-contained breathing apparatus.

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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*** Section 6 - Accidental Release Measures ***

Containment Procedures

None necessary.

Clean-Up Procedures

None necessary.

Evacuation Procedures

None

Special Procedures

None

*** Section 7 - Handling and Storage ***

Handling Procedures

No special handling procedures needed.

Storage Procedures

No special storage procedures needed.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Lead (7439-92-1)

ACGIH: 0.05 mg/m3 TWA

OSHA: 30 µg/m3 Action Level (Pb, Poison, See 29 CFR 1910.1025); 50 µg/m3 TWA (Pb)

NIOSH: 0.050 mg/m3 TWA

Engineering Controls

None needed.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Not required under normal product use conditions.

Personal Protective Equipment: Skin

Not required under normal product use conditions.

Personal Protective Equipment: Respiratory

Not required under normal product use conditions.

Personal Protective Equipment: General

Not required under normal product use conditions.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Brownish or grey flexible material

Odor: None

Physical State: Solid

pH: NA

Vapor Pressure: NA

Vapor Density: NA

Boiling Point: ND

Melting Point: ND

Solubility (H2O): ND

Specific Gravity: >1

Evaporation Rate: ND

VOC: ND

Octanol/H2O Coeff.: ND

Flash Point: ND

Flash Point Method: ND

Upper Flammability Limit ND

Lower Flammability Limit ND

(UFL): ND

(LFL):

Burning Rate: ND

Auto Ignition: ND

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

None

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Incompatibility

None

Hazardous Decomposition

Not Determined

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Lead (7439-92-1)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: 30 µg/m³ Action Level (Pb, Poison, See 29 CFR 1910.1025); 50 µg/m³ TWA (Pb)

NTP: Reasonably Anticipated To Be A Human Carcinogen (Possible Select Carcinogen)

IARC: Monograph 87 [2006] (evaluates inorganic lead compounds as Group 2A and organic lead compounds as Group 3) (Group 2A (probably carcinogenic to humans))

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Lead (7439-92-1)

Test & Species

	Conditions
96 Hr LC50 Cyprinus carpio	0.44 mg/L [semi-static]
96 Hr LC50 Oncorhynchus mykiss	1.17 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	1.32 mg/L [static]
48 Hr EC50 water flea	600 µg/L

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

Lead (7439-92-1)

RCRA: 5.0 mg/L regulatory level

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

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*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Lead (7439-92-1)

SARA 313: 0.1 % Supplier notification limit; 0.1 % de minimis concentration (when contained in stainless steel, brass, or bronze)

CERCLA: 10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Lead	7439-92-1	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Lead	7439-92-1	0.1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Lead	7439-92-1	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given.

However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.