

SAFETY DATA SHEET

1. Identification

Product identifier SHOT BLAST DUST

Other means of identification

SDS number KWAR-11

Version # 01

Revision date Not Applicable

Recommended use Recycling, metal recovery
Recommended restrictions For industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Kaiser Aluminum Warrick LLC 4000 W. State Route 66 Newburgh, IN 47629

Emergency Information CHEMTREC: +1-703-527-3887 +1-800-424-9300 (24 Hour Emergency Telephone, multiple

languages spoken); Kaiser Warrick +1-877-335-9886 (24 Hour Emergency Telephone, only English

spoken)

Website For a current Safety Data Sheet, refer to Kaiser Aluminum website:

https://www.kaiseraluminum.com/customer-portal/safety-data-sheets/

2. Hazard(s) identification

Classification

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

The following statements summarize the health effects generally expected in cases of overexposures. User specific situations should be assessed by a qualified individual. Additional health information can be found in Section 11.

Physical hazards Not classified.
Health hazards Not classified.

Environmental hazards Hazardous to the ozone layer Not applicable

OSHA defined hazards Combustible dust

Label elements

Hazard symbol None.

Signal word Warning

Hazard statement May form combustible dust concentrations in air.

Precautionary statement

Prevention Prevent dust accumulation to minimize explosion hazard.

Response Not assigned.

Storage Store in accordance with local/regional/national/international regulation.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: SHOT BLAST DUST

Supplemental information

Direct contact: Can cause mechanical irritation of the eyes and skin. Dust: Can cause irritation of the upper respiratory tract.

Additional health effects from elevated temperature processing (e.g., melting): Dust and fume from processing: Acute overexposure: Can cause metal fume fever (nausea, fever, chills, shortness of breath and malaise). Chronic overexposures: Can cause benign lung disease (siderosis), central nervous system damage, secondary Parkinson's disease and reproductive harm in males.

Material will burn if ignited. Heavily concentrated dusts in air can be explosive if subjected to a strong ignition source. Contact of molten metal with water or moisture can result in a rapid generation of steam which may produce a violent splattering of molten metal.

3. Composition/information on ingredients

Composition comments

Complete composition is provided below and may include some components classified as non-hazardous.

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
Iron		7439-89-6	99	
Manganese		7439-96-5	<= 1	
Silicon		7440-21-3	<1	
Chromium		7440-47-3	<= 0.2	
Nickel		7440-02-0	<= 0.1	

Additional Information

Additional compounds which may be formed (during melting) are listed in Section 8.

4. First-aid measures

Eye contact

Rinse eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

Skin contact

Wash with soap and water for at least 15 minutes. Get medical attention if irritation develops or

persists.

Inhalation

Remove to fresh air. Check for clear airway, breathing, and presence of pulse. If breathing is difficult, provide oxygen. Loosen any tight clothing on neck or chest. Provide cardiopulmonary

resuscitation for persons without pulse or respirations. Consult a physician.

Ingestion

If swallowed, dilute by drinking water. Recommend quantities up to 30 mL (~1 oz.) in children and 250 mL (~9 oz.) in adults. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do NOT induce vomiting. Consult a physician.

Most important

symptoms/effects, acute and

delayed

Can cause irritation of the eyes, skin and upper respiratory tract. See Section 11 of the SDS for additional information on health hazards.

Medical conditions aggravated

by exposure

Asthma, chronic lung disease, Secondary Parkinson's disease and skin rashes.

Indication of immediate medical attention and special

treatment needed

General information

Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Otherwise, use fire fighting methods and materials that are appropriate for surrounding fire.

DO NOT USE water in fighting fires around molten metal.

Specific hazards arising from the chemical

Heavily concentrated dusts in air can be explosive if subjected to a strong ignition source. Contact of molten metal with water or moisture can result in a rapid generation of steam which may produce a violent splattering of molten metal.

Special protective equipment and precautions for firefighters General fire hazards

Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

Material will burn if ignited.

Material name: SHOT BLAST DUST SDS US KWAR-11 Version #: 01 2/9 **Explosion data**

Sensitivity to mechanical

impact

Not sensitive.

Sensitivity to static

discharge

Take precautionary measures against static discharges when there is a risk of dust explosion.

6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Pellets or granules can lead to serious, same level slips and falls. Use personal protection

recommended in Section 8 of the SDS.

Personal precautions, protective equipment and emergency procedures

For emergency responders

Pellets or granules can lead to serious, same level slips and falls. Use personal protection

recommended in Section 8 of the SDS.

Evacuation procedures

None necessary.

Methods and materials for containment and cleaning up Collect scrap for recycling.

If molten: Use dry sand to contain the flow of material. All tooling (e.g., shovels or hand tools) and containers which come in contact with molten metal must be preheated or specially coated and

approved for such use. Allow the spill to cool before remelting as scrap.

Environmental precautions

No special environmental precautions required.

7. Handling and storage

Handling

Avoid contact with skin and eyes. Avoid generating dust. Keep material dry. Use personal

protection recommended in Section 8 of the SDS.

Storage

Store in accordance with local/regional/national/international regulation.

Requirements for Remelting of **Scrap Material or Ingot**

Molten metal and water can be an explosive combination. The risk is greatest when there is sufficient molten metal to entrap or seal off the water. Water and other forms of contamination on or contained in scrap or remelt ingot are known to have caused explosions in melting operations.

All tooling and containers which come in contact with molten metal must be preheated or specially coated and approved for such use. Molds and ladles must be preheated or oiled prior to casting. Any surfaces that may contact molten metal (i.e., concrete) should be specially coated.

During melting operations, the following minimum guidelines should be observed:

- · Inspect all materials prior to furnace charging and completely remove surface contamination such as water, ice, snow, deposits of grease and oil or other surface contamination resulting from weather exposure, shipment, or storage.
- · Store materials in dry, heated areas with any cracks or cavities pointed downwards.

8. Exposure controls/personal protection

Occupational exposure limits

U.S OSHA Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	1 mg/m3	
Manganese (CAS 7439-96-5)	Ceiling	5 mg/m3	Fume
Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Silicon (CAS 7440-21-3)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust
ACGIH			
Components	Туре	Value	Form
Manganese (CAS 7439-96-5)	TWA (inhalable fraction)	0.2 mg/m3	(inhalable fraction)
•	TWA (respirable fraction)	0.02 mg/m3	(respirable fraction)
US ACGIH Threshold Limit Values	Time Weighted Average (TWA): r	mg/m3, non-standard uni	ts
Components	Туре	Value	Form
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3	
Manganese (CAS 7439-96-5)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.

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US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m3, non-standard units **Form** Components Value **Type** Nickel (CAS 7440-02-0) TWA 1.5 mg/m3 Inhalable fraction. Components Value **Form Type** Manganese (CAS TWA 0.05 mg/m3 Total dust. 7439-96-5) 0.02 mg/m3 Respirable fraction. Nickel (CAS 7440-02-0) **TWA** 1 mg/m3

General

The need for personal protective equipment should be based upon a hazard assessment and

recommendations from health / safety professionals.

Personnel who handle and work with molten metal should utilize primary protective clothing like polycarbonate face shields, fire resistant tapper's jackets, neck shades (snoods), leggings, spats and similar equipment to prevent burn injuries. In addition to primary protection, secondary or day-to-day work clothing that is fire resistant and sheds metal splash is recommended for use with molten metal. Synthetic materials should never be worn even as secondary clothing (undergarments).

Appropriate engineering controls

Use with adequate ventilation to meet the limits listed in Section 8.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields.

Skin protection

Hand protection Wear appropriate gloves to avoid any skin injury.

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform

about the breakthrough time of the glove material.

Other No special protective equipment required.

Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other Respiratory protection

qualified professional if concentrations exceed the limits listed in Section 8. Suggested respiratory

protection: N95.

Thermal hazards Contact with molten material can cause thermal burns.

General hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks considerations

and immediately after handling the product. When using, do not eat, drink or smoke.

Follow standard monitoring procedures. **Control parameters**

9. Physical and chemical properties

Solid, fines to spherical pellets. **Form**

Metallic. Color Odor Odorless **Odor threshold** Not available. Not applicable pН > 7.60 g/cm3 Density

2499.8 - 2701.4 °F (1371 - 1483 °C) Melting point/freezing point 5162 - 5702 °F (2850 - 3150 °C) Initial boiling point and boiling

range

Not available. Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - upper

Not available.

(%)

Flammability limit - lower

Not available.

(%)

Explosive properties Not available. Vapor pressure Not available.

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Not available. Vapor density Not available. Relative density Insoluble Solubility(ies) Partition coefficient Not available. (n-octanol/water)

Not available. Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity**

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Stable under normal conditions of use, storage, and transportation. Chemical stability

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid Contact of molten metal with water or moisture can result in a rapid generation of steam which

may produce a violent splattering of molten metal.

Incompatible materials None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Health effects associated with ingredients

Silicon (inert dusts): Chronic overexposures: Can cause chronic bronchitis and narrowing of airways.

Chromium dust and fumes: Can cause irritation of eye, skin and respiratory tract. Metallic chromium and trivalent chromium: Not classifiable as to their carcinogenicity to humans by IARC.

Nickel dust and fume: Can cause irritation of eyes, skin and respiratory tract. Eye contact: Can cause inflammation of the eyes and eyelids (conjunctivitis). Skin contact: Can cause sensitization and allergic contact dermatitis. Chronic overexposures: Can cause perforation of the nasal septum, inflammation of the nasal passages (sinusitis), respiratory sensitization, asthma and scarring of the lungs (pulmonary fibrosis). Nickel alloys IARC/NTP: Reviewed and not recommended for listing by NTP. Listed as possibly carcinogenic to humans by IARC (Group 2B).

Health effects associated with compounds formed during processing

Iron oxide: Chronic overexposures: Can cause benign lung disease (siderosis). Ingestion: Can cause irritation of gastrointestinal tract, bleeding, changes in the pH of the body fluids (metabolic acidosis) and liver damage.

Silica, amorphous: Acute overexposures: Can cause dryness of eyes, nose and upper respiratory tract.

Manganese oxide fumes: Can cause irritation of the eyes, skin, and respiratory tract. Acute overexposures: Can cause metal fume fever (nausea, fever, chills, shortness of breath and malaise).

Manganese compounds: Chronic overexposures: Can cause inflammation of the lung tissues, scarring of the lungs (pulmonary fibrosis), central nervous system damage, Secondary Parkinson's Disease and reproductive harm in males.

Information on likely routes of exposure

Can cause mechanical irritation. Eve contact Can cause mechanical irritation. Skin contact

Inhalation Can cause irritation of the upper respiratory tract.

> Additional health effects from elevated temperature processing (e.g., melting); Dust and fumes from processing: Acute overexposure: Can cause metal fume fever (nausea, fever, chills, shortness of breath and malaise). Can cause benign lung disease (siderosis), central nervous

system damage, secondary Parkinson's disease and reproductive harm in males.

Ingestion Can cause irritation of the gastrointestinal tract.

Symptoms related to the physical, chemical and toxicological characteristics Can cause irritation of the eyes, skin and upper respiratory tract.

Information on toxicological effects

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Components **Species Test Results**

Nickel (CAS 7440-02-0)

Acute Oral

LD50 Rat > 9000 mg/kg

Based on available data, the classification criteria are not met. **Acute toxicity** Skin corrosion/irritation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Based on available data, the classification criteria are not met. Respiratory sensitization Skin sensitization Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met.

Pre-existing conditions aggravated by exposure Asthma, chronic lung disease, Secondary Parkinson's disease and skin rashes.

Based on available data, the classification criteria are not met. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Chromium (CAS 7440-47-3) 3 Not classifiable as to carcinogenicity to humans.

Nickel (CAS 7440-02-0) 1 Carcinogenic to humans.

US OSHA Hazard Categories (10)

Not regulated.

US OSHA Hazard Categories (9)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Nickel (CAS 7440-02-0) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Based on available data, the classification criteria are not met. Reproductive toxicity Specific target organ toxicity -Based on available data, the classification criteria are not met.

single exposure

Specific target organ toxicity repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity This material is not expected to be harmful to aquatic life.

Components		Species	Test Results
Chromium (CAS 7440	-47-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.01 - 0.7 mg/l, 48 hours
Fish	LC50	Carp (Cyprinus carpio)	14.3 mg/l, 96 hours
Iron (CAS 7439-89-6)			
Aquatic			
Crustacea	LC50	Cockle (Cerastoderma edule)	100 - 330 mg/l, 48 hours
		Common shrimp, sand shrimp (Crangon crangon)	33 - 100 mg/l, 48 hours
Fish	LC50	Channel catfish (Ictalurus punctatus)	> 500 mg/l, 96 hours
Manganese (CAS 743	9-96-5)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	40 mg/l, 48 hours

Material name: SHOT BLAST DUST

Species Test Results Components

Nickel (CAS 7440-02-0)

Aquatic

EC50 Water flea (Daphnia magna) 1 mg/l, 48 hours Crustacea LC50 Fish Fathead minnow (Pimephales promelas) 2.923 mg/l, 96 hours

Persistence and degradability

The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Mobility in soil

No data available.

Other adverse effects

None known.

13. Disposal considerations

Reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must **Disposal instructions**

be made according to local or governmental regulations.

Waste codes

RCRA Status: Must be determined at the point of waste generation. If material is disposed as a waste, it must be characterized under RCRA according to 40 CFR, Part 261, or state equivalent in

TCLP testing is recommended for Chromium in a waste disposal scenario.

Waste from residues / unused

products

If reuse or recycling is not possible, disposal must be made according to local or governmental

regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

General Shipping Information

Basic Shipping Information

ID number

Proper shipping name Not regulated

Hazard class Packing group

General Shipping Notes

• When "Not regulated", enter the proper freight classification, SDS Number and Product Name onto the shipping paperwork.

DOT Alternate Basic Shipping Description #1

Basic Shipping Information

ID number NA3077

Proper shipping name Hazardous waste, solid, n.o.s.

Technical name **CHROMIUM**

Hazard class q Ш Packing group

Notes for Alternate DOT Description

- Classification applies to shipments within the domestic U.S. when declared a waste product and meeting the TCLP criteria for chromium.
- Add D007 to Section 13 of the Hazardous Waste Manifest.
- Delete "RQ" reference when containing less than 10lbs (D007) per packaging.

Disclaimer

This section provides basic classification information and, where relevant, information with respect to specific modal regulations, environmental hazards and special precautions. Otherwise, it is presumed that the information is not available/not relevant

15. Regulatory information

US federal regulations

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Chromium (CAS 7440-47-3) Listed. Manganese (CAS 7439-96-5) Listed. Nickel (CAS 7440-02-0) Listed.

Material name: SHOT BLAST DUST SDS US

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US OSHA Hazard Categories (9)

Not regulated.

US OSHA Hazard Categories (10)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard

categories

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Immediate Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Manganese	7439-96-5	<= 1	
Nickel	7440-02-0	<= 0.1	

US state regulations

US. California Proposition 65

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Nickel (CAS 7440-02-0) Listed: May 7, 2004

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

SDS Status Date of origination: April 1, 2021.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available

Material name: SHOT BLAST DUST SDS US KWAR-11 Version #: 01 8/9

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Other information

- Guide to Occupational Exposure Values 2012, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
- NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, September 2005.
- expub, Expert Publishing, LLC., www.expub.com,
- Ariel, 3E Company, www.3Ecompany.com
- Aluminum Association's Bulletin F-1, "Guidelines for Handling Aluminum Fines Generated During Various Aluminum Fabricating Operations." The Aluminum Association, 1525 Wilson Boulevard, Suite 600, Arlington, Virginia 22209, www.aluminum.org.
- Aluminum Association, "Guidelines for Handling Molten Aluminum, The Aluminum Association, 1525 Wilson Boulevard, Suite 600, Arlington, Virginia 22209, www.aluminum.org.
- NFPA 484, Standard for Combustible Metals (NFPA phone: 800-344-3555)
- NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids
- NFPA 70, Standard for National Electrical Code (Electrical Equipment, Grounding and Bonding)
- NFPA 77, Standard for Static Electricity

Key/Legend:

AICS Australian Inventory of Chemical Substances

Chemical Abstract Services CAS

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

Code of Federal Regulations CFR Cardio-pulmonary Resuscitation **CPR** Department of Transportation DOT Domestic Substances List (Canada) DSL

EC **Effective Concentration**

Effective Dose ED

EINECS European Inventory of Existing Commercial Chemical Substances

Japan - Existing and New Chemical Substances **ENCS**

European Waste Catalogue **EWC EPA Environmental Protective Agency**

IARC International Agency for Research on Cancer

LC Lethal Concentration

LD Lethal Dose

MAK Maximum Workplace Concentration (Germany) "maximale Arbeitsplatz-Konzentration"

Non-Domestic Substances List (Canada) **NDSL**

National Institute for Occupational Safety and Health NIOSH

National Toxicology Program NTP **OEL** Occupational Exposure Limit

Occupational Safety and Health Administration **OSHA**

Product Identification Number PIN **PMCC** Pensky Marten Closed Cup

RCRA Resource Conservation and Recovery Act Superfund Amendments and Reauthorization Act SARA

SIMDUT Système d'Information sur les Matières Dangereuses Utilisées au Travail

STEL Short Term Exposure Limit **TCLP** Toxic Chemicals Leachate Program Transportation of Dangerous Goods TDG

Threshold Limit Value TLV

TSCA Toxic Substances Control Act TWA Time Weighted Average

WHMIS Workplace Hazardous Materials Information System

meter. m centimeter, cm millimeter, mm in inch, gram, kilogram, kg lb pound, microgram, μg ppm parts per million,

feet

*** End of SDS ***

Material name: SHOT BLAST DUST SDS US KWAR-11 Version #: 01

SHOT BLAST DUST KWAR-11

Hazard statement

May form combustible dust concentrations in air.

Precautionary statement

Prevention

Prevent dust accumulation to minimize explosion hazard.

Response

Not assigned.

Storage

Store in accordance with local/regional/national/international regulation.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Warning

Supplemental information

Direct contact: Can cause mechanical irritation of the eyes and skin. Dust: Can cause irritation of the upper respiratory tract.

Additional health effects from elevated temperature processing (e.g., melting): Dust and fume from processing: Acute overexposure: Can cause metal fume fever (nausea, fever, chills, shortness of breath and malaise). Chronic overexposures: Can cause benign lung disease (siderosis), central nervous system damage, secondary Parkinson's disease and reproductive harm in males.

Material will burn if ignited. Heavily concentrated dusts in air can be explosive if subjected to a strong ignition source. Contact of molten metal with water or moisture can result in a rapid generation of steam which may produce a violent splattering of molten metal.

FIRE FIGHTING MEASURES:

Otherwise, use fire fighting methods and materials that are appropriate for surrounding fire.

IN CASE OF SPILL:

Collect scrap for recycling.

If molten: Use dry sand to contain the flow of material. All tooling (e.g., shovels or hand tools) and containers which come in contact with molten metal must be preheated or specially coated and approved for such use. Allow the spill to cool before remelting as scrap.

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