



SCHLUTER®

KERDI-SHOWER-FRS GALVANIZED STEEL BRACKETS

SAFETY DATA SHEET (SDS)

Version: 01

Date of Issue: September 29, 2026

According to: Global Harmonized System (GHS); OSHA Hazard Communication Standard 29 CFR 1910.1200(g) Rev. 2012; WHMIS 2015 (Hazardous Products Regulations)

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Schluter® KERDI-SHOWER-FRS Galvanized Steel Brackets
Product Galvanized steel floor recess brackets.
Description:
Product Use: Galvanized steel brackets that may require cutting.

Manufacturer/Supplier Identification:

US: Schluter Systems L.P.
194 Pleasant Ridge Road
Plattsburgh, NY 12901

CAN: Schluter Systems (Canada) Inc.
21100 chemin Ste-Marie
Ste-Anne-de-Bellevue, QC H9X 3Y8

Telephone: 1-800-472-4588

Email: commercialsupport@schluter.com

Web Site: <https://www.schluter.com/>

EMERGENCY INFORMATION

Emergency telephone number:

CHEMTREC: +1 (800) 424-9300 (within the US) or +1 (703) 527-3887 (outside the US)

SECTION 2 – HAZARD IDENTIFICATION

According to: Global Harmonized System (GHS); OSHA Hazard Communication Standard 29 CFR 1910.1200(g) Rev. 2012; WHMIS 2015 (Hazardous Products Regulations) Classification:

Health	Environment	Physical
None	None	None

NOTE: The product in its finished, marketed form is believed to be inert and generally innocuous. Classifications/hazards pertain to compromised/disrupted product due to processing such as sanding, grinding, burning etc. Avoid inhalation of metal dusts and fumes. May cause an influenza-like illness. Avoid skin and eye contact with dusts to prevent mechanical irritation. User-generated dust is easily ignited and difficult to extinguish. This product contains components that are environmentally hazardous and small chips, fine turnings, and dust from processing may be toxic to aquatic life.

Label Elements

- **Label Pictogram:** Not applicable
- **Signal Word:** Not applicable



- **Hazard Statements:** Not applicable
- **Precautionary Statements:** Not applicable

Other Hazards (supplemental information):

- **Dust and fume from processing:** Can cause irritation of the eyes, skin and respiratory tract.
- **Additional health effects from elevated temperature processing (e.g., welding, melting):**
 - Acute overexposure: Can cause metal fume fever, reduced ability of the blood to carry oxygen and the accumulation of fluid in the lungs.
- Non-combustible as supplied. Small chips, fine turnings and dust from processing may be readily ignitable.
- **Explosion/fire hazards may be present when:**
 - Dust or fines are dispersed in air.
 - Chips, dust or fines are in contact with water.
 - Dust and fines are in contact with certain metal oxides (e.g., rust, copper oxide).
 - Molten metal is in contact with water/moisture or certain metal oxides (e.g., rust, copper oxide).

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

PRELIMINARY STATEMENT:

The product in its finished, marketed form is believed to be inert and generally innocuous. Complete composition is provided below and may include some components classified as non-hazardous.

CAS NUMBER	EC NUMBER (EINECS/ELINCS)	CHEMICAL NAME	PERCENT (% weight)
Alloying Element			
7440-44-0	231-153-3	Carbon (C)	<5%
7439-96-5	231-105-1	Manganese (Mn)	<20%
7723-14-0	231-768-7	Phosphorous (P)	<1%
7440-21-3	231-130-8	Silicon (Si)	<1%
7440-50-8	231-159-6	Copper (Cu)	<15%
7440-02-0	231-111-4	Nickel (Ni)	<6%
7440-47-3	231-157-5	Chromium (Cr)	<7%
7439-98-7	231-107-2	Molybdenum (Mo)	<2%
7429-90-5	231-072-3	Aluminum (Al)	<5%
Base Metal			
7439-89-6	231-096-4	Iron (Fe)	Balance
Coating			
7440-66-6	231-175-3	Zinc (Zn)	<10%

Note: Exact composition will vary. Note that elements will be present as oxides.
Oxide compounds are listed in Section 8.

SECTION 4 – FIRST AID MEASURES

Eye:	Dust and fumes from processing: Rinse eyes with plenty of water or saline for at least 15 minutes. Consult a physician.
Skin:	Dust and fumes from processing: Wash with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. May cause allergic skin reactions. Seek medical attention if skin irritation occurs.
Inhalation:	Dust and fumes from processing: Remove to fresh air. Check for clear airway, breathing, and presence of pulse. Provide cardiopulmonary resuscitation for persons without pulse or respirations. If breathing is difficult, provide oxygen. Loosen any tight clothing on neck or chest. Consult a physician.
Ingestion:	Product in its marketed form is inert. If large amounts are swallowed, call physician, immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point:	Not applicable	Flammable Limits:	Not applicable
Suitable extinguishing media:	Non-flammable. Will not support combustion. Not applicable for solid product. Use extinguishers appropriate for surrounding materials. Do not use water spray on molten metal. Use Class D dry powder extinguishing agents on fines, dust, or molten metal.		
Specific hazards arising from the product:	Not applicable for solid product.		
Special protective actions for firefighters:	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing when fighting fires. At temperatures above the melting point, fumes containing metal oxides and other alloying elements may be liberated.		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:	Not applicable to galvanized steel in solid state. Avoid dust formation. Ensure adequate ventilation. Clean-up personnel should be protected against contact with eyes and skin protection.
Environmental precautions:	This product as sold in its marketed form is not considered an environmental hazard.
Containing environmental effects:	N/A.
Measures when handling spilled substance:	Not applicable to galvanized steel in solid state. Pick up mechanically. Collect scrap for recycling.
Reporting:	N/A.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:

Avoid generating dust. Avoid contact with sharp edges or heated metal. Hot and cold galvanized steel are not visually different. Hot galvanized steel does not necessarily glow red. Use personal protection recommended in Section 8 of the SDS.

Conditions for safe storage:

No special measures required.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limit values

There are no exposure limits for galvanized steel. The exposure limit for iron-containing fumes has been established at 5 mg/m³ with ACGIH's TWA. The individual complex compounds within the fume may have lower exposure limits than the general fume

Component	CAS Number	Type	Exposure Limit	Form
Aluminum, metal (Al)	7429-90-5	OSHA PEL (TWA) OSHA PEL (TWA) NIOSH REL (TWA) NIOSH REL (TWA)	15 mg/m ³ 5 mg/m ³ 10 mg/m ³ 5 mg/m ³	Total dust Respirable fraction Total dust Respirable fraction
Carbon (C)	7440-44-0	None Listed		
Copper (Cu)	7440-50-8	OSHA PEL (TWA) OSHA PEL (TWA) NIOSH REL (TWA) NIOSH REL (TWA) ACGIH (TWA) ACGIH (TWA)	1 mg/m ³ 0.1 mg/m ³ 1 mg/m ³ 0.1 mg/m ³ 1 mg/m ³ 0.2 mg/m ³	Dust and mist Fume Except fume Fume Dust and mist Fume
Chromium (Cr)	7440-47-3	ACGIH TWA OSHA PEL (TWA) NIOSH REL (TWA)	0.003 mg/m ³ 0.5 mg/m ³ 0.5 mg/m ³	Inhalable particulate Not specified Not specified
Iron (Fe)	7439-89-6	ACGIH TWA NIOSH REL (TWA)	1 mg/m ³ 1 mg/m ³	Not specified Not specified
Iron Oxide Fume	1309-37-1 1332-37-2 1345-25-1	OSHA PEL (TWA) NIOSH REL (TWA) ACGIH TWA	10 mg/m ³ 5 mg/m ³ 5 mg/m ³	Not specified Not specified Respirable particulate matter
Manganese	7439-96-5	NIOSH REL (TWA) ACGIH TWA ACGIH TWA	1 mg/m ³ 0.1 mg/m ³ 0.02 mg/m ³	Not specified Inhalable particulate matter Respirable particulate matter
Molybdenum	7439-98-7	OSHA PEL (TWA) ACGIH TWA ACGIH TWA	15 mg/m ³ 10 mg/m ³ 3 mg/m ³	Total dust Inhalable particulate matter Respirable particulate matter
Nickel (Ni)	7440-02-0	OSHA PEL (TWA) NIOSH REL (TWA) ACGIH TWA ACGIH TWA	1 mg/m ³ 0.015 mg/m ³ 1.5 mg/m ³ 0.2 mg/m ³	Not specified Not specified Elemental: Inhalable particulate matter Insoluble inorganic compounds: Respirable particulate matter
Phosphorous (P)	7723-14-0	None Listed		
Silicon (Si)	7440-21-3	OSHA PEL (TWA) OSHA PEL (TWA) NIOSH REL (TWA) NIOSH REL (TWA)	15 mg/m ³ 5 mg/m ³ 10 mg/m ³ 5 mg/m ³	Total dust Respirable fraction Total dust Respirable fraction
Zinc (Zn)	7440-66-6	OSHA PEL (TWA) NIOSH REL (TWA) ACHIH (TWA)	5 mg/m ³ 5 mg/m ³ 2 mg/m ³	Respirable particulate matter



Appropriate engineering controls

Work/Hygienic practices: Consider the potential hazards of this material, applicable exposure limits, job activities, and other substances in the workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. Provide general or local exhaust to minimized airborne concentrations during cutting operations.

Ventilation: Local exhaust ventilation should be used to control the emissions of air contaminants. General dilution ventilation may assist with the reduction of air contaminant concentrations.

Other equipment: The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Individual protection measures - Personal protective equipment (PPE)

Eye/Face Protection: Wear safety glasses with side shields. Wear face shield when cutting parts.

Hands/Skin Protection: The need for protective equipment should be based upon a hazard assessment and recommendations from health / safety professionals.

Respiratory Protection: Dust and fumes from processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits listed above. Suitable respiratory protective device recommended: P95.

Thermal Hazards: Burning material may give off toxic products of combustion when involved in a hot fire.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Note: The data below are typical values and do not constitute a specification.

Appearance Physical state: Color: Odor/Odor threshold:	Solid Silver grey metallic (steel) odorless	Vapor density (Air = 1):	Not applicable
pH:	Not applicable	Partition Coefficient: n-octanol/water	Not applicable
Melting point:	ca. 1530°C (ca. 2786°F)	Water solubility:	Insoluble
Boiling point/range:	Not applicable	Auto-ignition Temperature:	Not applicable
Flash point:	Not applicable	Decomposition Temperature:	Not applicable
Evaporation rate:	Not applicable	Viscosity:	Not applicable
Flammability:	Not applicable	Oxidizing properties:	Not applicable
Upper/lower flammability limits	Not applicable	Molecular Weight:	Not applicable
Vapor pressure:	Not applicable	Relative density:	Not applicable



SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Unreactive.

Chemical stability: Stable.

Possibility of hazardous reactions: None known.

Conditions to avoid:

- Contact with mineral acids will release flammable hydrogen gas. Dust formation.
- Strong acids.

Incompatibility: May include, and are not limited to: oxides of carbon. Metal oxides. Irritating fumes.

Hazardous decomposition products: Metallic fumes may be produced during welding, burning, grinding, and possibly machining or any situation with the potential for thermal decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

Products sold in marketed form are not expected to present a serious health hazard.

During processing, the most significant route of exposure is by the inhalation (breathing) of fumes and dust. If fumes are inhaled, they can cause a condition commonly known as metal fume fever with symptoms which resemble influenza; Symptoms may be delayed 4-12 hours and begin with a sudden onset of thirst, and a sweet, metallic or foul taste in the mouth. Other symptoms may include upper respiratory tract irritation accompanied by coughing and a dryness of the mucous membranes, lassitude and a generalized feeling of malaise. Fever, chills, muscular pain, mild to severe headache, nausea, occasional vomiting, exaggerated mental activity, profuse sweating, excessive urination, diarrhea and prostration may also occur. Contact with fumes or metal powder will irritate skin and eyes. Contact with hot, molten metal will cause thermal burns. Mechanical damage via flying particles and chipped slag is possible. During metal processing dusts will likely cause eye irritation. Fumes from thermal decomposition or molten material will likely be irritating to the eyes.

Likely routes of exposure: None for galvanized steel in its natural solid state. Processing product may produce dust affecting eye, skin, or lead to inhalation of dust.

Potential signs and symptoms of overexposure: Irritation (eye, skin, respiratory)

Acute Effects

Oral toxicity:	No information available on finished product
Dermal toxicity:	No information available on finished product
Inhalation toxicity:	No information available on finished product
Skin corrosion/irritation:	Dusts may cause skin irritation.
Serious eye damage/irritation:	Dusts may cause serious eye irritation.
Skin sensitization:	No information available on finished product; certain forms of nickel are associated with dermal sensitization.
Respiratory sensitization:	No information available on finished product.

Other Health Effects

Germ Cell Mutagenicity: No information available on finished product.

Carcinogenicity: Finished product not assessed by IARC, NTP or US EPA for carcinogenicity. Nickel (CAS No 7440-02-0) is classified by IARC for carcinogenicity (inhalation).

Developmental/Reproductive Toxicity: No information available on finished product.



Specific target organ toxicity (single exposure): Zinc oxide (CAS No. 1314-13-2) has been classified for specific target organ toxicity (single exposure, Category 2; may cause irritation to the gastrointestinal tract through oral exposure). Dusts may cause respiratory irritation.

Specific target organ toxicity (repeated exposure): No information available on finished product. Inhalation of finely divided metallic powder may cause pulmonary fibrosis. Nickel (CAS No 7440-02-0) may cause damage to organs (lungs) through repeated or prolonged exposure (inhalation) according to available information.

Aspiration hazard: No information available on finished product.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity:	No data available for galvanized steel in its natural solid state. Due to the insolubility of the material in water, a separation takes place during filtration and sedimentation procedure. Zinc oxide (1314-13-2) is classified for acute and chronic aquatic toxicity.
Persistence and biodegradability:	This inert product is not considered to be rapidly biodegradable.
Bioaccumulation potential:	No data available.
Mobility in soil:	No data available for galvanized steel in its natural solid state. Individual metal dusts may migrate into soil and groundwater and be absorbed by plants.
Other adverse effects:	No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal methods:	Steel scrap should be recycled whenever possible. Dispose of in accordance with applicable federal, provincial/state or local regulations. This product as sold in its marketed form is not considered an environmental hazard. When discarded, allow hot or heated material to solidify and cool before disposal.
Container:	Place contaminated materials in disposal containers and dispose of in a manner consistent with applicable regulations.

SECTION 14 – TRANSPORT INFORMATION

Agency:	Shipping Description:
DOT/TDG	NOT REGULATED AS HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER DOT 49 CFR
IMO/IMDG	NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE
ICAO/IATA	NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO



UN/NA number:	Not classified
Proper shipping name:	Not classified
Hazard class:	Not classified
Packing group:	Not classified
Environmental hazards:	Not classified
Transport in bulk:	Not classified
Special precautions for user:	Not classified

SECTION 15 – REGULATORY INFORMATION

Chemical Safety Assessment: None available

United States Federal Regulations:

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): The finished product is not listed under CERCLA and has no reportable quantity. Chromium (CAS 7440-47-3) and nickel (CAS 7440-02-0) are listed on the CERCLA Hazardous Substance List (40 CFR 302.4).

Clean Water Act (CWA): The finished product is not listed as toxic pollutants.

Clean Air Act (CAA): The finished product is not listed as hazardous air pollutants.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA 302 Components: The finished product is not subject to reporting requirements of S.302.

SARA 311/312 Hazards: Skin, eye and respiratory irritation.

SARA 313 Components:

Ingredient	CAS No.
Manganese (Mn)	7439-96-5
Nickel (Ni)	7440-02-0
Chromium (Cr)	7440-47-3

The finished product is not subject to reporting levels established by S.313.

Toxic Substances Control Act: All components are listed on the TSCA inventory.

State:

California: The finished product is not listed on the Proposition 65 list. The nickel listed as an ingredient in Section 3 is chemically bonded into the product. Working with (cutting, bending, deburring) this product does not expose the worker to free nickel below 10 microns in size. No Proposition 65 warning for the product is required. No other ingredient in the product is listed on the Proposition 65 list.

Canada:

DSL/NDSL: All components are listed or exempt.

Other:

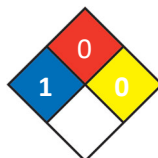
IARC: Finished product not assessed by IARC for carcinogenicity.

NTP: Finished product not classified as known or reasonably anticipated carcinogen.

SECTION 16 – OTHER INFORMATION

National Fire Protection Association (NFPA) Ratings: This information is provided solely for the use of individuals trained in the NFPA system.

Health: 1
Flammability: 0
Reactivity: 0



Acronyms and abbreviations that may have been used in this document:

ACGIH: American Conference of Governmental Industrial Hygienists	MSHA: Mine Safety and Health Administration
CAS: Chemical Abstract Service Number	NDSL: Non-Domestic Substances List
CAA: Clean Air Act	NFPA: National Fire Protection Association
CERCLA: Comprehensive Environmental Response and Liability Act	NTP: National Toxicology Program
CLP: Classification, Labelling, and Packaging of Substances and Mixtures:	NIOSH: National Institute for Occupational Safety and Health
CWA: Clean Water Act	NFPA: National Fire Protection Association
DOT: Department of Transport	N/A: not applicable/available
DSL: Domestic Substance List	NTP: National Toxicology Program
EC: European Community	OSHA: Occupational Safety and Health Administration
EINECS: European Inventory of Existing Chemical Substances	PNOR: Particulates Not Otherwise Regulated
ELINCS: European List of Notified Chemical Substances	PPE: Personal Protective Equipment
GHS: Global Harmonized System of Classification and Labelling of Chemicals	SARA: Superfund Amendment and Reauthorization Act
IARC: International Agency for Research on Cancer	SCL: Specific Concentration Limit
IATA: International Air Transport Association	SDS: Safety Data Sheet
ICAO: International Civil Aviation Organization	TDG: Transportation of Dangerous Goods
IMO: International Maritime Organization	TSCA: Toxic Substances Control Act:
IMDG: International Maritime Dangerous Goods	UN/NA: United Nations/North America
M-Factor: Multiplying factor	US EPA: US Environmental Protection Agency
MMA: methyl methacrylate monomer	WHMIS: Workplace Hazardous Materials Information System

Revision Indicator: This is a new Safety Data Sheet.

Creation Date: September 10, 2026

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.