

SAFETY DATA SHEET

SDS-PK-001 Revision 1.0 May 2026

PROKAHL Drywall Fasteners — Complete Product Range

Carbon Steel Fasteners | Black Phosphate & Clear Zinc Finishes | All 12 Active SKUs

WHMIS 2015 NOTICE:

This Safety Data Sheet has been prepared in accordance with the Hazardous Products Regulations (Canada — WHMIS 2015 / GHS Rev. 7) and the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product constitutes a manufactured ARTICLE as defined under Section 2 of the Hazardous Products Act (Canada) and the Hazardous Products Regulations (HPR). This SDS is furnished voluntarily to support safe handling, storage, and disposal. The recipient is solely responsible for determining product suitability for any intended application and for compliance with all applicable legislative requirements.

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name:	PROKAHL Drywall Fasteners
Trade Name / Brand:	PROKAHL™
Product Type:	Manufactured Article — Carbon Steel Screw Fasteners
Document Number:	SDS-PK-001 Revision 1.0 Issue Date: May 2026
SKUs Covered:	PHDW614, PHDW658, PHDW72, PHDW614F, PHDW72F, PHDW614ST, PHDW678ST, PLM7716F, PLMT7916P, PHMT7916Z, PHMT734Z, PB2125
Intended Use:	Mechanical fastening of gypsum board to wood framing, light-gauge metal framing, and heavy-gauge metal framing; metal-to-metal framing connections in commercial and residential construction applications.
Restrictions on Use:	Not intended as a primary structural load-bearing fastener unless specified by a licensed engineer of record.
Supplier / Distributor:	PROKAHL Construction Solutions Greater Vancouver Area & Fraser Valley British Columbia, Canada
General Enquiries:	www.prokahl.com info@prokahl.com +1 778-322-2624 info@prokahl.com
24-Hour Emergency Contact (Canada):	CANUTEC — Transport Canada: 1-613-996-6666 (call collect) BC Poison Control Centre: 1-800-567-8911
24-Hour Emergency Contact (USA):	CHEMTREC: 1-800-424-9300

SECTION 2 — HAZARD IDENTIFICATION

2.1 — GHS / WHMIS 2015 Classification

In accordance with WHMIS 2015 (Hazardous Products Act and Hazardous Products Regulations) and the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), this product is classified as a manufactured ARTICLE and does not present significant chemical hazards under normal and foreseeable conditions of use. The predominant hazard in finished solid form is mechanical, arising from sharp points and edges. Thermal or mechanical processing (welding, cutting, grinding) may generate hazardous by-products as identified in Section 11 of this document.

GHS Signal Word: WARNING

Physical Hazards: Sharp points and cutting edges present a risk of laceration and puncture injury to exposed skin.

Health Hazards (Normal Use): Not classified as acutely hazardous under normal conditions of use in finished article form.

Health Hazards (Thermal / Mechanical Processing): Welding, cutting, grinding, or sustained exposure to temperatures exceeding 420 degrees C (Clear Zinc Plated SKUs only) may generate zinc oxide fume, iron oxide fume, and/or phosphate decomposition products. See Sections 8 and 11.

Environmental Hazards: Not classified as environmentally hazardous in solid finished article form.

2.2 — GHS Hazard and Precautionary Statements

Hazard Statements: H311 — Harmful in contact with skin (mechanical injury — sharp points and edges). H335 — May cause respiratory irritation (applicable only during grinding, cutting, or welding operations that generate metal dust or fume).

Precautionary Statements: P102 — Keep out of reach of children. P264 — Wash hands thoroughly after handling. P270 — Do not eat, drink, or smoke when using this product. P280 — Wear cut-resistant protective gloves and safety eyewear. P271 — Use only in well-ventilated areas if grinding, cutting, or welding. P301 + P330 + P331 — If swallowed: rinse mouth; do not induce vomiting; seek immediate emergency medical attention. P304 + P340 — If inhaled (dust/fume from machining): remove to fresh air; seek medical attention if symptoms persist. P305 + P351 + P338 — If in eyes: rinse with water for 15 minutes; remove contact lenses if present; seek medical attention if irritation persists. P501 — Dispose in accordance with applicable local, provincial, and federal regulations.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

This product is a manufactured article composed of alloyed carbon steel with a surface finish coating. In its finished solid form it does not release chemical substances at levels that would present a health or environmental hazard under normal foreseeable conditions of use. The following compositional data is provided for occupational hygiene reference, particularly relevant to thermal or mechanical processing operations.

Component / Ingredient	CAS Number	Approx. %	Notes
Carbon Steel (Fe-C alloy)	7440-44-0 / alloy	90 – 97%	Core substrate
Manganese	7439-96-5	< 2.0%	Alloying element
Silicon	7440-21-3	< 0.5%	Alloying element
Black Phosphate Coating (selected SKUs)	7664-38-2 (phosphate)	< 1.0%	Surface finish — interior grade
Clear Zinc Plating (selected SKUs)	7440-66-6	< 3.0%	Surface finish — enhanced corrosion resistance
Residual Machining Oil (trace)	Varies (petroleum-based)	Trace	Manufacturing lubricant

All components are listed on Canada's Domestic Substances List (DSL).

SECTION 4 — FIRST AID MEASURES

Skin Contact (Lacerations / Punctures):	Apply direct pressure with a clean dressing to control haemorrhage. Do not attempt to remove an embedded fastener. Cleanse thoroughly with soap and running water. Seek immediate medical attention for deep punctures, wounds that do not stop bleeding, or where tetanus prophylaxis is not current.
Skin Contact (Coating Dust / Residue):	Wash with soap and water for 15 minutes. Remove contaminated clothing. Seek medical attention if irritation persists.
Eye Contact (Metal Dust / Particles):	Do not rub. Immediately flush with clean lukewarm running water for a minimum of 15 minutes, holding the eyelid open. Remove contact lenses after initial flushing. Seek immediate medical attention if irritation, pain, vision changes, or foreign body sensation persists.
Inhalation (Dust / Fume from Machining):	Remove the affected individual to fresh air immediately. If breathing is laboured or absent, administer supplemental oxygen or artificial respiration by trained personnel and contact emergency services. Seek medical attention for any respiratory symptoms. Zinc oxide fume fever may manifest several hours following overexposure.
Ingestion:	Rinse the mouth thoroughly with water. Do not induce vomiting. Seek immediate emergency medical attention if a fastener has been swallowed — mechanical gastrointestinal injury is the primary risk. Provide this SDS to the attending medical professional.
Notes to Physicians:	Treat symptomatically. For zinc oxide fume inhalation: metal fume fever symptoms (chills, myalgia, fever, nausea) typically self-resolve within 24 to 48 hours; however, pulmonary oedema has been reported in severe cases. Radiographic evaluation is recommended for ingestion cases.

SECTION 5 — FIRE-FIGHTING MEASURES

Flammability:	This product is not flammable. Solid carbon steel fasteners do not ignite or sustain combustion under normal conditions of storage and use.
Suitable Extinguishing Media:	Select media appropriate for the surrounding fire: carbon dioxide (CO ₂), dry chemical powder, water spray or fog.
Hazardous Combustion Products:	In fire conditions: iron oxide fumes, zinc oxide fumes (Clear Zinc Plated SKUs), phosphorus oxides (Black Phosphate SKUs), and carbon monoxide / dioxide from cardboard packaging combustion.
Protective Equipment for Fire-Fighters:	Full structural fire-fighting gear including self-contained breathing apparatus (SCBA) in positive-pressure mode is required when combating fires involving this product.
Other Information:	Where safe to do so, move product away from the fire area. Cool adjacent containers with water spray.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Restrict access to authorised personnel. Wear cut-resistant gloves and puncture-resistant safety footwear. Maintain adequate lighting during recovery.
Environmental Precautions:	Prevent fasteners from entering drainage systems, stormwater infrastructure, or waterways. Recover and recycle in accordance with applicable waste management regulations.
Collection Methods:	Contain the spill where practicable. Collect mechanically using a magnetic sweeper, broom, or metal-rated vacuum. Do not use bare hands. Place in a clearly labelled container.
Disposal:	Recycle as clean scrap steel at a licensed metal recycling facility. See Section 13 for detailed disposal requirements.

SECTION 7 — HANDLING AND STORAGE

Safe Handling Practices:	Wear cut-resistant gloves when handling bulk quantities. Use mechanical dispensing equipment where practicable. Do not drop boxes from height. Wash hands after handling.
Storage Conditions:	Store in original sealed packaging in a cool, dry, well-ventilated location. Recommended: 5 to 30 degrees C; relative humidity below 60%. Store on pallets or shelving — avoid direct contact with concrete floors. Keep away from open flames.
Incompatible Storage Conditions:	Strong acids, strong oxidising agents, halogens, and corrosive chemicals. Areas subject to water infiltration or condensation.
Keep Away From:	Children. Open flames. Welding arcs and cutting equipment (except during intentional processing with appropriate PPE). Corrosive chemical storage.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Occupational Exposure Limits (OELs):	No specific OEL applies to finished fasteners in solid form under normal installation conditions. Applicable OELs for grinding / cutting / welding operations: Iron Oxide Fume: TWA 5 mg/m ³ (BC OEL; ACGIH TLV). Zinc Oxide Fume: TWA 2 mg/m ³ (ACGIH TLV); 5 mg/m ³ (BC OEL). Welding Fume (general): TWA 1 mg/m ³ (ACGIH TLV 2022). Reference: BC OHS Regulation (WorkSafeBC); ACGIH TLVs (current edition).
Engineering Controls:	General mechanical ventilation is adequate for routine installation. Local exhaust ventilation (LEV) is required wherever grinding, cutting, or welding generates metal dust or fume.
Eye and Face Protection:	Safety glasses compliant with CSA Z94.3 or ANSI Z87.1 when operating power tools. Chemical splash goggles during grinding or cutting.
Hand Protection:	Cut-resistant gloves (minimum EN 388 / ANSI A2) when handling bulk quantities.
Respiratory Protection:	Not required under normal installation in ventilated spaces. For grinding / cutting / welding: NIOSH-approved / CSA Z94.4 compliant half-mask respirator with P100 (HEPA) particulate filters. Fit-test required per WorkSafeBC OHS Regulation Part 8.
Foot Protection:	CSA Z195 safety footwear with puncture-resistant soles on all construction sites.
Body Protection:	Long-sleeved work attire recommended when handling bulk quantities.
Hygiene Measures:	Wash hands with soap and water before eating, drinking, smoking, or applying cosmetics. Do not eat, drink, or smoke in areas where the product is handled.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Solid metal article — screw fastener
Appearance:	Black Phosphate SKUs: black to dark grey matte finish Clear Zinc Plated SKUs: bright silver / metallic finish Drywall Bits (PB2125): metallic / chrome-matte finish
Odour:	Slight metallic or mineral oil odour; practically odourless under normal use
Odour Threshold:	Not applicable (solid article)
pH:	Not applicable (solid article)
Melting Point / Range:	Approximately 1,370 to 1,530 degrees C (carbon steel, alloy-dependent)
Boiling Point:	Not applicable under normal foreseeable conditions of use
Flash Point:	Not applicable — non-flammable solid
Flammability:	Non-flammable solid
Vapour Pressure:	Not applicable (solid)
Relative Density:	Approximately 7.8 g/cm ³ (carbon steel substrate)
Solubility in Water:	Insoluble
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Zinc plating: coating integrity degrades above 420 degrees C. Phosphate coating: degrades above approximately 300 degrees C. Not applicable under normal conditions of use.
Explosive Properties:	Not classified as explosive
Oxidising Properties:	Not classified as oxidising

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability:	Chemically stable under normal ambient conditions of storage and use. Surface rust may develop on Black Phosphate SKUs upon prolonged moisture exposure; this does not compromise structural integrity for the intended application.
Conditions to Avoid:	Prolonged moisture exposure or immersion. Temperatures exceeding 420 degrees C (Clear Zinc Plated SKUs). Strong acid or alkaline environments. Contact with corrosive chemicals.
Incompatible Materials:	Strong mineral acids (HCl, H ₂ SO ₄ , HNO ₃). Strong oxidising acids. Halogens and halide compounds. Copper alloys in sustained direct contact in the presence of moisture (galvanic corrosion).
Hazardous Decomposition Products:	Normal use: none anticipated. Thermal / mechanical processing: iron oxide fumes, zinc oxide fumes (zinc-plated SKUs), phosphorus oxides (phosphate-coated SKUs), carbon monoxide from organic residues. See Section 8.
Hazardous Reactions:	None known under normal conditions of storage and use in finished article form.
Hazardous Polymerisation:	Will not occur.

SECTION 11 — TOXICOLOGICAL INFORMATION

Basis of Assessment:	Based on known properties of component substances (carbon steel, zinc, phosphate coatings) and standard toxicological reference literature. Finished article toxicity testing has not been conducted on this specific product.
Routes of Exposure:	Normal use: mechanical injury from sharp edges (dermal contact). Processing (grinding, cutting, welding): inhalation of dust or fume. Ingestion: accidental only.
Acute Toxicity (Ingestion):	Not expected to be acutely chemically toxic via ingestion in finished solid form. Primary risk is mechanical gastrointestinal injury. Seek emergency medical attention immediately.
Skin Contact:	Lacerations and puncture injuries from sharp edges and points. No evidence of contact sensitisation from coatings in normal handling.
Eye Contact:	Metal particles generated during mechanical processing may cause mechanical eye irritation, conjunctival abrasion, or corneal injury.
Inhalation:	No inhalation hazard anticipated under normal installation conditions. Grinding / cutting / welding only: Iron Oxide Fume: Chronic overexposure may cause pulmonary siderosis (benign pneumoconiosis). Not classified as a carcinogen by IARC, NTP, or OSHA. Zinc Oxide Fume: Acute overexposure may cause metal fume fever — self-limiting flu-like syndrome (chills, fever, myalgia, nausea). Onset typically 4 to 8 hours post-exposure; resolves within 24 to 48 hours.
Carcinogenicity:	Carbon steel, iron oxide, zinc oxide, and phosphate compounds used in this product are not classified as carcinogens by IARC, NTP, ACGIH, or OSHA.
Reproductive Toxicity:	No evidence of reproductive toxicity at levels associated with normal occupational handling of finished fasteners.
STOT — Single Exposure:	May cause respiratory tract irritation (dust/fume from machining only) — GHS Category 3.
STOT — Repeated Exposure:	Chronic repeated overexposure to iron oxide fume may cause pulmonary siderosis. Not anticipated under normal installation use.
Aspiration Hazard:	Not applicable (solid article).

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity:	Not classified as acutely or chronically hazardous to aquatic organisms, soil organisms, or terrestrial wildlife in solid finished article form. Iron and zinc are naturally occurring elements present at background levels in soil and water.
Persistence and Degradability:	Carbon steel will oxidise slowly in outdoor environments to iron oxide. Zinc plating oxidises to zinc oxide and zinc carbonate under weathering. Phosphate coatings are stable under normal ambient conditions.
Bioaccumulation Potential:	Not anticipated from exposure to finished solid fasteners under normal environmental conditions.
Mobility in Soil:	Solid fasteners do not migrate through soil. Corrosion products have limited mobility in most soil types.
Adverse Environmental Effects:	Prevent bulk quantities from entering storm drains, waterways, or sensitive ecological areas. Zinc at elevated concentrations can be acutely toxic to certain aquatic invertebrates and fish. Recover and recycle wherever practicable.
Regulatory Status:	Not listed as a substance of concern under CEPA 1999 in finished article form. Components are listed on Canada's DSL.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Classification:	Scrap carbon steel and zinc-plated fasteners do not typically constitute hazardous waste under CEPA, BC EMA, or RCRA in normal commercial quantities. The user must independently confirm applicable waste classification requirements in the jurisdiction of disposal.
Preferred Disposal Method:	Recover and recycle as clean ferrous metal scrap at a licensed metal recycling facility.
Packaging Disposal:	Dispose of cardboard packaging through applicable municipal recycling programmes.
Regulatory Compliance:	Comply with CEPA 1999, BC Environmental Management Act and associated regulations, and all applicable municipal waste management by-laws. The generator is responsible for determining applicable regulatory classification and engaging a licensed waste disposal contractor where required.
Prohibition:	Do not dispose of in household waste streams where industrial/commercial recycling options are reasonably available. Do not incinerate without appropriate pollution controls.

SECTION 14 — TRANSPORT INFORMATION

TDG — Canada:	NOT regulated as a Dangerous Good under the Transportation of Dangerous Goods Act (TDGA) and Regulations (TDGR) in normal commercial packaging quantities.
DOT — USA (49 CFR):	NOT regulated as a Hazardous Material under 49 CFR in normal commercial packaging.
IATA (Air Transport):	Not classified as a Dangerous Good under IATA DGR in normal commercial quantities.
IMDG (Marine Transport):	Not classified as a Dangerous Good under the IMDG Code in normal quantities.
UN Number:	None assigned
Proper Shipping Name:	Not applicable — not regulated
Transport Hazard Class:	Not applicable — not regulated
Packing Group:	Not applicable — not regulated
Environmental Hazards:	Not classified as a marine pollutant or environmentally hazardous substance.
Special Transport Precautions:	Ensure cartons and pallets are properly secured and stretch-wrapped to prevent load shifting, tipping, or spillage during transit. Handle pallet loads with appropriate mechanical equipment.

SECTION 15 — REGULATORY INFORMATION

WHMIS 2015 (Canada):	This product is classified as a manufactured ARTICLE under the HPA and HPR (WHMIS 2015). As an article, it is exempt from mandatory SDS and label requirements; this document is furnished voluntarily.
DSL / NDSL (Canada):	All identified chemical components are listed on Canada's DSL or are exempt as naturally occurring substances or inorganic elements.
OSHA HazCom 2012 (USA):	Not classified as a hazardous chemical under 29 CFR 1910.1200 in finished article form. SDS provided voluntarily.
CEPA 1999 (Canada):	Components are not listed on Schedule 1 (List of Toxic Substances) of CEPA 1999 in finished article form.
TSCA (USA):	All chemical components are listed on the TSCA Chemical Substance Inventory or are otherwise exempt.
WorkSafeBC:	Comply with all applicable provisions of the Workers Compensation Act (BC) and BC OHS Regulation, including PPE (Part 8), ventilation (Part 5), and construction work sites (Part 20).

BC Building Code: Installation must comply with the current British Columbia Building Code (BCBC), applicable National Building Code of Canada (NBC) provisions, and project-specific engineering specifications.

Standards Compliance: ASTM C1002 — Standard Specification for Steel Self-Piercing Tapping Screws for Gypsum Panel Products or Metal Plaster Bases ASTM B117 — Standard Practice for Operating Salt Spray (Fog) Apparatus ISO 9001:2015 — Quality Management Systems ISO 14001:2015 — Environmental Management Systems CSA Z94.3 — Eye and Face Protectors CSA Z195 — Protective Footwear

SECTION 16 — OTHER INFORMATION

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Issue Date: May 2026

Revision Number: 1.0 — Initial Formal Release

Supersedes: N/A — First formal SDS issued for this product range

Next Scheduled Review: May 2027, or earlier upon material change to product composition, regulatory requirements, or new hazard data

Key Abbreviations: ACGIH — American Conference of Governmental Industrial Hygienists | ASTM — American Society for Testing and Materials | BC — British Columbia | BCBC — British Columbia Building Code | CEPA — Canadian Environmental Protection Act | DSL — Domestic Substances List | EMA — Environmental Management Act | GHS — Globally Harmonized System | HPR — Hazardous Products Regulations | IARC — International Agency for Research on Cancer | IATA — International Air Transport Association | IMDG — International Maritime Dangerous Goods Code | LEV — Local Exhaust Ventilation | NBC — National Building Code of Canada | NIOSH — National Institute for Occupational Safety and Health | NTP — National Toxicology Program | OEL — Occupational Exposure Limit | OHS — Occupational Health and Safety | OSHA — Occupational Safety and Health Administration | PPE — Personal Protective Equipment | RCRA — Resource Conservation and Recovery Act | SCBA — Self-Contained Breathing Apparatus | SDS — Safety Data Sheet | STOT — Specific Target Organ Toxicity | TDGA — Transportation of Dangerous Goods Act | TLV — Threshold Limit Value | TSCA — Toxic Substances Control Act | TWA — Time-Weighted Average | WHMIS — Workplace Hazardous Materials Information System

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