
Section 1: Product and Company Identification

Product Identifier: **Powerweld Nuclear Penetrant**
Product Use: Non-Destructive Visual Dye Penetrant
Item Code: PW3000
Supplier Name: Powerweld Inc.
Supplier Address: 2501 Beech Street
Valparaiso, IN 46383
Supplier Web Address: www.powerweldinc.com
Supplier Phone: 219-462-8700
1-800-826-9073
Emergency Phone: CHEMTREC (24-Hour) 1-800-424-9300
Prepared By: Powerweld Inc.
Preparation Date: 1 January 2026
OSHA Regulatory Status: Regulated
WHMIS Classification: -A, B-5, D-2A

Section 2: Hazard Identification

Classification: Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 3
Aspiration toxicity Category 1
Flammable aerosols Category 1
Gases under pressure Compressed Gas

Symbols:



Signal Word: DANGER!

Hazard Statements: H222 Extremely flammable aerosol
H280 Contains gas under pressure; may explode if heated
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness
H373 May cause damage to organs through prolonged or repeated exposure
Precautionary Statements: P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash face, hands and any exposed skin thoroughly after handling.

P271 Use only outdoors in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

P301+ IF SWALLOWED:

P310 Immediately call a POISON CENTRE or doctor/physician.

P331 DO NOT induce vomiting.

P302+ IF ON SKIN:

P352 Wash with plenty of soap and water.

P304+ IF INHALED:

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+ IF IN EYES:

P351+ Rinse cautiously with water for several minutes.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P338 Remove contact lenses, if present and easy to do so. Continue rinsing.

P332+ If skin irritation occurs:

P313 Get medical advice/attention.

P337+ If eye irritation persists:

P313 Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P403 Store in a well-ventilated place.

P405 Store locked up.

P410 Protect from sunlight.

P411 Do not expose to temperatures exceeding 50°C / 122°F.

Other Hazards:

Not applicable

Section 3: Composition/Information on Hazardous Ingredients

HAZARDOUS INGREDIENTS	CAS NUMBER	APPROXIMATE CONCENTRATION (%)
Hydrotreated Light Distillates	64742-47-8	30 – 40
Propane / Isobutane / N-butane	68476-86-8	20 – 30
bis (2-ethylhexyl) terephthalate	6422-86-2	1 – 10
Xylene	1330-20-7	0.1 – 1.0

Section 4: First-aid Measures

Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and transport to nearest medical facility for additional treatment.

Ingestion:

Do NOT induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.

Eye Contact: Immediately flush upper and lower eyelids with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Rest eyes for 30 minutes. If redness, burning, blurred vision or swelling persists, visit nearest medical facility for additional treatment.

Skin Contact: Wash off immediately with soap and water. Do not use ointments. Wash contaminated clothing before reuse. If skin irritation persists, contact a physician.

Symptoms: Treat symptomatically

NOTE: In all severe cases, contact physician immediately. Local telephone operators can provide number of regional poison control centre.

Section 5: Fire-fighting Measures

Flammable: Extremely flammable aerosol

Means of Extinction: Water fog; foam; dry chemical; alcohol-resistant foam; carbon dioxide (CO₂). Do not use a solid water stream as it may scatter and spread fire.

Auto-ignition Temperature: Not available

Hazardous Combustion Products: Carbon oxides

Explosion Data Sensitivity to Mechanical Impact: Not available

Explosion Data Sensitivity to Static Discharge: Not available

Special Equipment: See below

Precautions for Fire Fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

Section 6: Accidental Release Measures

Protective Equipment: See Section 8

Emergency Procedures: Use with adequate ventilation to keep the exposure levels below the OELs.

Leak or Spill Procedure: Ensure adequate ventilation. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Use a non-combustible inert absorbent (ie. vermiculite, sand or earth, etc.) to soak up the product and place into a container for proper disposal.

Section 7: Handling and Storage

Handling Procedures and Equipment: Avoid contact with eyes. Avoid breathing vapours or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.

Storage Requirements: Store in area below 120°F (49°C). Do not incinerate or burn containers. Assure canister is in a secure place to prevent accidental puncture.

Incompatibilities: Oxidizing agents

Always ensure canister is capped when not in use. Keep out of the reach of children.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

HAZARDOUS INGREDIENTS	CAS NUMBER	ACGIH TLV	OSHA PEL
Hydrotreated Light Distillates	64742-47-8	-	-
Propane / Isobutane / N-butane	68476-86-8	1000 ppm	1000 ppm
Xylene	1330-20-7	150 ppm (STEL) 100 ppm (TWA)	-

Engineering Controls:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Personal Protective Equipment:

Eyes - Safety glasses with side-shields. Where eye contact could occur, chemical splash proof goggles are recommended.

Skin - Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

General Hygiene - Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Avoid breathing vapours, mist or gas.

Section 9: Physical and Chemical Properties

Physical State:

Aerosol

Odour and Appearance:

Dark red oily liquid with mild oily odour

Odour Threshold (ppm):

Not available

pH:

Neutral

Melting Point:

Not available

Freezing Point:

Not available

Boiling Point:

Not available

Flashpoint:

- 141°F (- 96.4°C) (based on propellant)

Upper Flammable Limit (% by volume):

Not available

Lower Flammable Limit (% by volume):

Not available

Section 10: Stability and Reactivity

Chemical Stability:

Stable under recommended storage conditions

Possible Hazardous Reactions:

None under normal processing

Conditions to Avoid:

Extreme temperatures and direct sunlight

Materials to Avoid (Incompatibilities):

Strong oxidizers and acids

Conditions of Reactivity:

Not data available

Hazardous Decomposition By-Products:

Carbon oxides

Hazardous Polymerization:

Will not occur

Section 11: Toxicological Information

<i>Skin Contact:</i>	Irritating to skin. Prolonged skin contact may defat or dry the skin and produce dermatitis. May cause frostbite.
<i>Skin Absorption:</i>	No
<i>Eye Contact:</i>	Irritating to eyes. Liquid or vapours may cause redness, burning, tearing, swelling and/or pain.
<i>Inhalation:</i>	Irritating to respiratory system. Avoid breathing vapours or mists. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
<i>Ingestion:</i>	Not an expected route of exposure. Potential for asphyxiation if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<i>Effects of Acute Exposure:</i>	May cause respiratory irritation. May cause dizziness.
<i>Effects of Chronic Exposure:</i>	Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Prolonged skin contact may defat the skin and produce dermatitis.
<i>Irritancy of Product:</i>	Not available
<i>Sensitization to Product:</i>	Not available
<i>Carcinogenicity:</i>	There are no known carcinogenic chemicals in this product.
<i>Reproductive Effects:</i>	Not available
<i>Respiratory Sensitization:</i>	Not available
<i>Toxicological Data:</i>	Not available

Section 12: Ecological Information

<i>Aquatic and Terrestrial Toxicity:</i>	Not available
<i>Persistence and Degradability:</i>	Not available
<i>Bioaccumulative Potential:</i>	Not available
<i>Soil Mobility:</i>	Not available

Section 13: Disposal Considerations

NOTE: Always dispose of waste in accordance with local, provincial and federal regulations.

<i>Safe Handling:</i>	Do not reuse empty containers.
<i>Methods of Disposal:</i>	Material resulting from clean-up operations may be hazardous wastes and therefore subject to local, regional and federal regulations.

Section 14: Transportation Information

<i>UN Identification Number:</i>	UN1950
<i>Proper Shipping Name:</i>	Aerosols, Flammable Limited Quantity
<i>Hazardous Class or Division:</i>	2.1
<i>Packing Group:</i>	None

Section 15: Regulatory Information

<i>Toxic Substances Control Act (TSCA):</i>	The product on this SDS, or all of its components, is listed under TSCA.
<i>SARA Title III, Section 313:</i>	The following ingredients are subject to the reporting requirements of Section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR Part 372: None
<i>California Proposition 65:</i>	This product does not contain any known Proposition 65 chemicals
<i>Pennsylvania Right to Know Information:</i> (5 most predominant ingredients / hazardous & non-hazardous):	Xylene
<i>Canadian Workplace Hazardous Materials Information System (WHMIS):</i>	This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. WHMIS CLASS: Aerosol - A, B-5, D-2A
<i>Domestic Substances List (DSL):</i>	The product on this SDS, or all of its components, is included in the DSL.

Section 16: Other Information

<i>Preparation Date:</i>	10 June 2016
<i>Date of Last Revision:</i>	1 January 2026

This SDS format is in accordance with GHS. Powerweld Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Powerweld. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.