

## BD-200 Black Developer Spray Can

### 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** BD-200 Black Developer Spray Can  
**SDS Number:** BD-200 Black Developer SC  
**Revision Date:** 06/14/2022  
**Product Use:** NDT Inspection Developer

**Supplier Details:** Sherwin Inc.  
5530 Borwick Avenue  
South Gate, CA 90280

**Phone:** 562-861-6324  
**Email:** sherwin@sherwininc.com  
**Internet:** www.sherwininc.com

#### Emergency telephone number:

ChemTel 1-800-255-3924 in U.S.A, Canada, Puerto Rico and US Virgin Islands;  
ChemTel +1-813-248-0585 outside U.S.A, Canada, Puerto Rico and US Virgin Islands  
ChemTel Brazil: 0-800-591-6042, China: 400-120-0751, India: 000-800-100-4086 and Mexico: 01-800-099-0731

### 2 HAZARDS IDENTIFICATION

#### Classification of Substance

##### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Aerosols, 1  
Health, Serious Eye Damage/Eye Irritation, 2 A  
Health, Specific target organ toxicity - Repeated exposure, 2  
Health, Specific target organ toxicity - Single exposure, 3

#### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word: DANGER**

#### GHS Hazard Pictograms:



#### GHS Hazard Statements:

H222 - Extremely flammable aerosol  
H229 - Pressurized container: may burst if heated  
H319 - Causes serious eye irritation  
H373 - May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)  
H336 - May cause drowsiness or dizziness

#### GHS Precautionary Statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 - Use explosion-proof [electrical/ventilating/lighting/...] equipment.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash ... thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P281 - Use personal protective equipment as required.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P311 - IF exposed or concerned: Call a POISON CENTER/doctor/...  
P370 + P378 - In case of fire: Use dry chemical, alcohol resistant foam or dry sand to extinguish.  
P403 + P235 - Store in a well-ventilated place. Keep cool.



## BD-200 Black Developer Spray Can

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Ingredients:
	% Chemical Name:
67-63-0	40-50% 2-Propanol
1317-61-9	10-20% Iron oxide (Fe <sub>3</sub> O <sub>4</sub> )

### 4 FIRST AID MEASURES

- Inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- Skin Contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids to facilitate irrigation. Get immediate medical attention.
- Ingestion:** Clean mouth with water. Keep respiratory tract clear. Do NOT induce vomiting or attempt chemical neutralization. If symptoms persist, call a physician.

### 5 FIRE FIGHTING MEASURES

- Flash Point:** 12°C (54 °F) 2-propanol
- Flash Point Method:** ASTM D-56
- Autoignition Temp:** 399-425°C-propanol
- Lower Explosive Limit:** 2%(V) 2-propanol
- UEL:** 13%(V) 2-propanol
- Suitable extinguishing agents:** Alcohol resistant foam, dry chemical, carbon dioxide
- Special hazards arising from the substance or mixture:** Spray can under pressure. Carbon monoxide and carbon dioxide
- Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective suit
- Unsuitable extinguishing media:** High volume water jet
- Further information:** Do not allow run-off from fire-fighting to enter drains or water courses. Use a water spray to cool fully closed containers.

### 6 ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- Environmental precautions:** Do not allow to enter storm sewers/ surface or ground water.
- Methods and material for containment and cleaning up:** Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth; DO NOT use combustible materials. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation..Place in a chemical waste container.

## BD-200 Black Developer Spray Can

### 7 HANDLING AND STORAGE

- Handling Precautions:** Keep away from sources of ignition. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Use only outdoors or in a well-ventilated area or with appropriate respiratory equipment. Do not swallow. When using do not eat, drink or smoke. (See section 8)
- Storage Requirements:** Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep containers upright to prevent leakage. Containers may be hazardous when empty since residue liquid may be present

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Provide adequate ventilation for work and storage areas.
- Personal Protective Equipment:** Chemical resistant gloves;  
Chemical safety glasses;  
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits.  
Where concentrations are above recommended limits, use an organic vapor respirator with dust, mist, and fume filters;  
Impervious clothing.
- Exposure Limits:**
- | CAS NO. | COMPONENT  | TWA     | STEL    | ACGIH          |
|---------|------------|---------|---------|----------------|
| 67-63-0 | 2-Propanol | 200 ppm | 400 ppm | ACGIH          |
|         |            |         | 400 ppm | OSHA and NIOSH |



- General protective and hygienic measures:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Do not inhale gases / fumes / aerosols. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Black powder dispersed in solvent, powder settles out and solvent evaporates quickly.
- Physical State:** Liquid in a spray can under pressure      **Odor:** Alcohol-like, characteristic, 2-Propanol



## BD-200 Black Developer Spray Can

<b>Spec Grav./Density:</b>	0.78, 2-Propanol	<b>Solubility:</b>	Soluble in water, 2-Propanol
<b>Viscosity:</b>	Kinematic at 37.8 °C (100 °F): 2.7 cSts (ASTM D455), 2-Propanol	<b>Flash Point:</b>	12 °C (54°F) (ASTM D-56), 2-Propanol
<b>Boiling Point:</b>	82-83°C (180-181°F), 2-Propanol	<b>Vapor Density:</b>	<2.1 @ 20 - 25 °C (68 - 77 °F) (Air = 1.0), 2-Propanol
<b>Vapor Pressure:</b>	45.4 mmHg @ 20 °C (68 °F), 2-Propanol	<b>Auto-Ignition Temp:</b>	39-425°C, 2-Propanol
<b>pH:</b>	Not determined	<b>UFL/LFL:</b>	No data available
<b>Evaporation Rate:</b>	Not determined		

### 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No dangerous reaction under normal use.
<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid Identification:</b>	Elevated temperatures
<b>Materials to Avoid Identification:</b>	Strong Acids; Strong Bases Strong Oxidizing Agents.
<b>Hazardous Decomposition:</b>	Carbon oxides, sulphur oxides
<b>Hazardous Polymerization:</b>	Will not occur.

### 11 TOXICOLOGICAL INFORMATION

Risk of serious damage to eyes.  
May cause damage to organs through prolonged or repeated exposure by inhalation.  
Irritating to skin.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

STOT - single exposure: No data available  
STOT - repeated exposure: No data available

### 12 ECOLOGICAL INFORMATION

**Ecotoxicity**  
No data available

**Persistency and degradability**  
No data available

**Bioaccumulative potential**  
No data available

**Mobility in soil**  
No data available

### 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local, state and federal regulations



## BD-200 Black Developer Spray Can

Empty containers may retain product residue ( liquid and/or vapor) and can be dangerous.

### 14 TRANSPORT INFORMATION

DOT, IATA, IMDG

UN1950, aerosols, flammable, 2.1

### 15 REGULATORY INFORMATION

**TSCA** All components are on the Inventory list

#### US federal regulations

##### CERCLA Hazardous Substance List (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

##### SARA 311/312 Hazard classes

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

##### SARA 302 Extremely hazardous substance

Not listed.

##### SARA 313 (TRI reporting)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.

#### Other federal regulations

##### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

##### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

##### Safe Drinking Water Act

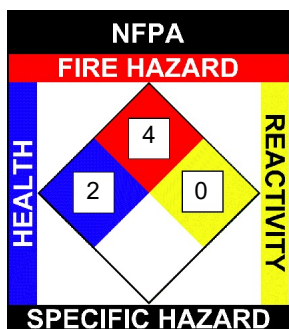
Not regulated.

### 16 OTHER INFORMATION



## BD-200 Black Developer Spray Can

NFPA: Health = 2, Fire = 4, Reactivity = 0, Specific Hazard = n/a



This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Author:** Sherwin Inc.

**Publication Date:** June 14, 2022

**Revision No. 0**

Revision Date: 06/14/2022