

# **GPD02 Gunpowder Particle Reagent B** Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identifica	SECTION 1: Identification		
1.1. Identification			
Product form		: Mixture	
Product name		: GPD02 Gunpowder Particle Reagent B	
Product code		: GPD02	
I.2. Recommended u	se and restrictions o	on use	
Jse of the substance/mixtur	e	: Crime Scene Investigation	
1.3. Supplier			
SIRCHIE 100 Hunter Place Youngsville, NC 27596 - US T 919-554-2244; 800-356-7; <u>http://www.sirchie.com</u>		; 800-899-8181	
1.4. Emergency telep	hone number		
Emergency number		: 1.800.424.9300 (USA) +1-703-527-3887 (INTL) CHEMTREC: 1.800.424.9300	
SECTION 2: Hazard(s	s) identification		
2.1. Classification of	the substance or mix	xture	
GHS US classification			
Flammable liquids	H225	Highly flammable liquid and vapour	
Category 2 Skin corrosion/irritation Category 2	H315	Causes skin irritation	
Serious eye damage/eye	H319	Causes serious eye irritation	
rritation Category 2 Specific target organ	H336	May cause drowsiness or dizziness	
coxicity (single exposure) Category 3			
Full text of H statements : se	ee section 16		
2.2. GHS Label eleme	ents, including preca	utionary statements	
GHS US labeling			
Hazard pictograms (GHS U	5)		
Signal word (GHS US)		: Danger	
Hazard statements (GHS US	5)	: H225 - Highly flammable liquid and vapour H315 - Causes skin irritation H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness	
Precautionary statements (G	GHS US)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical/ventilating/lighting equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P303+P352 - If on skin: Wash with plenty of water.</li> <li>P303+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove</li> </ul>	
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	contact lenses, if present and easy to do. Continue rinsing. P312 - Call a poison center or doctor if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3.	Other hazards which do not result in classification

Other hazards not contributing to the : None under normal conditions.

classification

2.4. Unknown acute toxicity (GHS US)

Not applicable

### **SECTION 3: Composition/Information on ingredients**

#### **Substances** 3.1.

- Not applicable
- 3.2. **Mixtures**

Name	Product identifier	%	GHS US classification
AQUA	(CAS-No.) 7732-18-5	< 29	Not classified
citric acid, monohydrate	(CAS-No.) 5949-29-1	> 1	Skin Corr. 1, H314 Eye Irrit. 2A, H319
2-propanol	(CAS-No.) 67-63-0	> 0	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.		
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.		
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.		
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
4.2. Most important symptoms and effects (acute and delayed)			
Potential Adverse human health effects and : Based on available data, the classification criteria are not met. symptoms			
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.			
4.3. Immediate medical attention and special treatment, if necessary			

No additional information available

SECTIO	N 5: Fire-fighting measur	es
5.1.	Suitable (and unsuitable) exting	uishing media
Suitable e	extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable	e extinguishing media	: Do not use a heavy water stream.
5.2.	Specific hazards arising from th	e chemical
Reactivity		: No reactivity hazard other than the effects described in sub-sections below.
5.3.	Special protective equipment ar	nd precautions for fire-fighters
Firefighting	g instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection	during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
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<b>SECTION 6: Accidental</b>	release measures		
6.1. Personal precaution	. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency Emergency procedures	y personnel : Evacuate unnecessary personnel.		
6.1.2. For emergency resp Protective equipment Emergency procedures	<ul><li>Equip cleanup crew with proper protection.</li><li>Ventilate area.</li></ul>		
6.2. Environmental prec			
,	ublic waters. Notify authorities if liquid enters sewers or public waters.		
6.3. Methods and materi	rial for containment and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.		
6.4. Reference to other s	sections		
See Heading 8. Exposure contr	rols and personal protection.		
<b>SECTION 7: Handling a</b>	and storage		
7.1. Precautions for safe	e handling		
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking o smoking and when leaving work. Provide good ventilation in process area to prevent form of vapor.			
7.2. Conditions for safe	estorage, including any incompatibilities		
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep contain closed when not in use.			
Incompatible products	: Strong bases. Strong acids.		
Incompatible materials	: Sources of ignition. Direct sunlight.		
SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
2-propanol (67-63-0)			
ACGIH ACGIH TWA (ppm) 200 ppm			
ACGIH ACGIH STEL (ppm) 400 ppm			
citric acid, monohydrate (59	949-29-1)		
Not applicable			

AQUA (7732-18-5)
Not applicable

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure. Gas mask. Gloves. Safety glasses.

#### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

### Respiratory protection:

Wear appropriate mask

### Personal protective equipment symbol(s):

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#### Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and c	hemical properties		
Physical state	: Liquid		
Appearance	: Clear, colorless, volatile liquid.		
Color	: Colorless		
Odor	: Alcohol odour		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: Non flammable.		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Soluble in water.		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosion limits	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
0.2 Other information			

9.2. Other information

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No read	ctivity hazard other than the effects described in sub-sections below.
10.2.	Chemical stability
Stable	under recommended handling and storage conditions (see section 7).
10.3.	Possibility of hazardous reactions
No read	ctivity hazard other than the effects described in sub-sections below.
10.4.	Conditions to avoid
Direct s	sunlight. Extremely high or low temperatures. Open flame. Sparks.
10.5.	Incompatible materials
Strong	acids. Strong bases.
10.6.	Hazardous decomposition products
fume. C	Carbon monoxide. Carbon dioxide.

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<b>SECTION 11: Toxicological informat</b>	ion
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
2-propanol (67-63-0)	
LD50 oral rat	5840 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	16400 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (ppm)	> 10000 ppm (Equivalent or similar to OECD 403, 6 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	5840 mg/kg body weight
ATE US (dermal)	16400 mg/kg body weight
citric acid, monohydrate (5949-29-1)	
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
2-propanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological info	ormation
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12.1. Toxicity

2-propanol (67-63-0)		
LC50 fish 1	9640 - 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Lethal)	
citric acid, monohydrate (5949-29-1)		
LC50 fish 1	440 - 760 mg/l (Equivalent or similar to OECD 203, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Anhydrous form)	
EC50 Daphnia 1	1535 mg/l (Other, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Anhydrous form)	

### 12.2. Persistence and degradability

GPD02 Gunpowder Particle Reagent B	
Persistence and degradability	Not established.
2-propanol (67-63-0)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance

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2-propanol (67-63-0)	
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.4 g O <sub>2</sub> /g substance
citric acid, monohydrate (5949-29-1)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.481 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.665 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

GPD02 Gunpowder Particle Reagent B	
Bioaccumulative potential	Not established.
2-propanol (67-63-0)	
Log Pow	0.05 (Weight of evidence approach, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
citric acid, monohydrate (5949-29-1)	
Log Pow	-1.81.55 (Anhydrous form, Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

2-propanol (67-63-0)	
0.021 N/m (25 °C)	
0.185 - 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Highly mobile in soil.	
No (test)data on mobility of the substance available.	

### 12.5. Other adverse effects

Other information

: Avoid release to the environment.

<b>SECTION 13: Disposal consideration</b>	15
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

### SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description UN-No.(DOT) Proper Shipping Name (DOT)

Class (DOT) Packing group (DOT) Hazard labels (DOT) : UN1210 Isopropanol Solution (FLAMMABLE LIQUID), 3, II

: UN1210

- : Isopropanol Solution
- FLAMMABLE LIQUID
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : II Medium Danger
- : 3 Flammable liquid



Other information

: No supplementary information available.

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### **Transportation of Dangerous Goods**

### Transport by sea

#### Air transport

Transport document description (IATA)	: UN UN1219 Isopropanol solution, 3, II
UN-No. (IATA)	: UN1219
Proper Shipping Name (IATA)	: Isopropanol solution
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

### **GPD02 Gunpowder Particle Reagent B**

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

#### 15.2. International regulations

CANADA

No additional information available

### **EU-Regulations**

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

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Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
Full text of H-phrases:	

#### Full text of H-phrases:

H225	Highly flammable liquid and vapour
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

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NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
Hazard Rating	·
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal protection	: H
	H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.