

### **SECTION 1: Identification**

Identification

Product form : Mixture

Product name : BV100 BlueView Gunpowder Particle Test Kit

Product code : BV100; E-522

Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemical

**Supplier** 

**SIRCHIE** 

100 Hunter Place

Youngsville, NC 27596 - USA

T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181

http://www.sirchie.com

**Emergency telephone number** 

: 1.800.424.9300 (USA) +1-703-527-3887 (INTL) Emergency number

CHEMTREC: 1.800.424.9300

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 1A H314 Causes severe skin burns and eye damage

Full text of H statements: see section 16

#### GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eve damage : P260 - Do not breathe dust/fume/gas/mist/vapors/spray. Precautionary statements (GHS US)

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/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.

P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P363 - Wash contaminated clothing before reuse.

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.

## Other hazards which do not result in classification

Other hazards not contributing to the

classification

: None under normal conditions.

# **Unknown acute toxicity (GHS US)**

Not applicable

02/05/2021 EN (English US) Page 1

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
sulfuric acid	(CAS-No.) 7664-93-9	72	Skin Corr. 1A, H314 Carc. 1A, H350
AQUA	(CAS-No.) 7732-18-5	28	Not classified
diphenylamine	(CAS-No.) 122-39-4	<1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373

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 :

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.

# 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

# **SECTION 5: Fire-fighting measures**

# 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Specific hazards arising from the chemical

Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting 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.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

# 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# 6.3. Methods and material 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.

02/05/2021 EN (English US) 2/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

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

BV100 BlueView Gunpowder Particle Test Kit		
No additional information available		
sulfuric acid (7664-93-9)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.2 mg/m³ (Thoracic fraction)	
diphenylamine (122-39-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	10 mg/m³	
AQUA (7732-18-5)		
No additional information available		

#### 8.2. Appropriate engineering controls

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

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

## Hand protection:

Wear protective gloves.

# Eye protection:

Chemical goggles or safety glasses

# Respiratory protection:

Wear appropriate mask

# Personal protective equipment symbol(s):







#### Other information:

Do not eat, drink or smoke during use.

02/05/2021 EN (English US) 3/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Colorless Color

Odor : Irritating/pungent odour

Odor threshold : No data available рΗ : No data available Melting point : No data available No data available Freezing point Boiling point : No data available : No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : Non flammable. Flammability (solid, gas) Vapor pressure : No data available Relative vapor density at 20 °C : No data available : No data available Relative density Solubility : Soluble in water. Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic **Explosion limits** : No data available

#### Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Explosive properties

Oxidizing properties

No reactivity hazard other than the effects described in sub-sections below.

: No data available

: No data available

# **Chemical stability**

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

Not established.

# **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

# Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

#### Information on toxicological effects 11.1.

: Not classified Acute toxicity (oral) Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg body weight (Rat, Experimental value, Oral)

02/05/2021 EN (English US) 4/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

diphenylamine (122-39-4)	
LD50 oral rat	> 800 mg/kg body weight (Rat, Male, Experimental value, Oral)
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	: Assumed to cause serious eye damage
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
BV100 BlueView Gunpowder Particle Test K	it
Additional information	Sulfuric acid is only classified carcinogenic in mist form with long exposure. This does not apply to this product.
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
diphenylamine (122-39-4)	

Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard Viscosity, kinematic	<ul><li>: Not classified</li><li>: No data available</li></ul>
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 information**

# 12.1. Toxicity

sulfuric acid (7664-93-9)	
LC50 fish 1	42 mg/l (96 h, Gambusia affinis)
EC50 Daphnia 1	29 mg/l (24 h, Daphnia magna)
diphenylamine (122-39-4)	
EC50 Daphnia 1	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	2.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)

# 12.2. Persistence and degradability

BV100 BlueView Gunpowder Particle Test Kit		
Persistence and degradability	Not established.	
sulfuric acid (7664-93-9)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
diphenylamine (122-39-4)		
Persistence and degradability	Not readily biodegradable in water.	
ThOD	2.39 g O₂/g substance	

# 12.3. Bioaccumulative potential

BV100 BlueView Gunpowder Particle Test Kit	
Bioaccumulative potential	Not established.

02/05/2021 EN (English US) 5/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

sulfuric acid (7664-93-9)		
Partition coefficient n-octanol/water (Log Pow)	-2.2 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.	
diphenylamine (122-39-4)		
BCF fish 1	51 – 253 (Cyprinus carpio, Literature study, Test duration: 8 weeks)	
Partition coefficient n-octanol/water (Log Pow)	3.71 – 3.84 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20.2 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

## 12.4. Mobility in soil

diphenylamine (122-39-4)		
Surface tension	71.8 mN/m (20 °C, 90 %, EU Method A.5: Surface tension)	
Partition coefficient n-octanol/water (Log Koc)	2.818 – 2.917 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.	

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 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

Proper Shipping Name (DOT) : Chemical kit

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Other information : No supplementary information available.

#### **Transportation of Dangerous Goods**

# Transport by sea

# Air transport

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

# **BV100 BlueView Gunpowder Particle Test Kit**

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

# 15.2. International regulations

#### **CANADA**

No additional information available

02/05/2021 EN (English US) 6/7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **EU-Regulations**

Data sources

No additional information available

**National regulations** 

## **BV100 BlueView Gunpowder Particle Test Kit**

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

#### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

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.

0

OX

Other information This Safety Data Sheet has been established in accordance with the applicable European

Union legislation.

Full text of H-phrases:

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H331	Toxic if inhaled
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

> 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

: 0 - Material that in themselves are normally stable, even under fire conditions.

NFPA specific hazard : OX - Materials that posses oxidizing properties.

Hazard Rating

NFPA reactivity

NFPA fire hazard

: 2 Moderate Hazard - Temporary or minor injury may occur Health

: 0 Minimal Hazard - Materials that will not burn Flammability

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

# SDS US (GHS HazCom 2012)

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.

02/05/2021 EN (English US) 7/7