



### **SAFETY DATA SHEET INFORMATION**

For further information: Please refer to the Safety Data Sheet following

Issue: August 23

3363

None

9

Ш

1Z

1950

UN No.:

**Dangerous Goods Class:** 

**Subsidiary Risk:** 

**Packing Group:** 

**Hazchem Code:** 

IMDG (Air & Sea only):

PRODUCT: BlastBag™ SUA

Other Names: Contains: aerosol propellant

Uses: Blast hole blocker, inflatable borehole plug

**Product Codes:** Various

**Proper Shipping** 

Name:

Dangerous Goods in Apparatus

Hazardous Nature:	This product is classified as hazardous in accordance with GHS criteria
GHS Classification:	Flammable Gas: 1; Aspiration Toxicant: 2
Exposure Standards:	TWA: 1900 mg/m³ (800 ppm); STEL: None specified: consider 2000 ppm; Peak Limitation (if any): None; Skin Sensitiser (if any): None. Refer to Section 8 for further information and definitions.

Physical Characteristics (Typical)	Section 9 of the SDS
Appearance	Device: aerosol in packaging.
Vapour Pressure (@ 25°C) (bar):	4.0 – 6.0
Relative Density (g/100g @ 20°C):	1.52 – 2.01
Heat of Combustion:	Not determined
Chemical Stability:	This product is stable at room temperature and pressure.
Reactivity:	Excessive heat, alkali metals.

Product Ingredients			Section 3 of the SDS
Ingredient	CAS Number	EINECS Number	Proportion w/w%
Propane	74-98-6	200-827-9	< 60
Butane	106-97-8	203-448-7	< 60
Contains: < 0.1% 1,3 Butadiene			

For further ingredients information, please refer to the full SDS

**GHS Pictograms** Section 2 of the SDS







### **DEFINITIONS**

Dangerous Goods	Products that are regulated for transport under the UN International guidelines are classified as Dangerous Goods. Products can be classified by their physical characteristics and may have only one Dangerous Goods designation, although may have a subsidiary risk. These products may be Dangerous Goods for transport by Air and Sea, but may not be classed as Dangerous Goods by Road and Rail in Australia. Refer to the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG) for more information.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by virtue of their chemical nature, rather than as a condition of their misuse. These hazards include mutagens, teratogens, carcinogens, and products that are harmful or irritant in nature. These products may or may not carry a Dangerous Goods classification.



# 1. IDENTIFICATION

Product Name: BlastBag™ SUA

Other Names: Contains: aerosol propellant

Chemical Family: Liquid: Alkanes

**Recommended Use:** Blast hole blocker, inflatable borehole plug

**Distributor:** SUA Explosives

Address: #26/1 Kasturba Cross Road, Bangalore, India 560001

**Telephone:** +08 040 535 200/400 **Emergency Phone:** +08 040 535 200/400

All other inquiries: <a href="mailto:suaadmin@suaexplosives.in">suaadmin@suaexplosives.in</a>

# 2. HAZARDS IDENTIFICATION

## **Product description:**

Aerosol device within inflatable dual bladder bag packaging, stored inside robust, approved box with handle. Puncture resistant outer bag is equipped with reflective material to protect aerosol over-pressure due to sun exposure, heavy duty can, and can contents is described in chemical composition. See section 3.

### **Hazard Classification**

This product is classified as hazardous in accordance with GHS criteria

### **Hazard Category**

Highly Flammable liquid and vapour

### **Hazard Statement**

Flammable Gas: 1; Aspiration Toxicant: 2

## **GHS Pictograms**







# **Hazard Statements**

H229: Pressurized container: may burst if heated

### **Precautionary Statements**

P102: Keep out of reach of children.

P251: Do not pierce or burn, even after use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P235+410: Keep cool. Protect from sunlight

P271: Use only outdoors or in a well-ventilated area.

## **Dangerous Goods Classification** 9

Signal Word Danger

# 3. COMPOSITION: Information on Ingredients

Chemical Ingredient	<b>CAS Number</b>	<b>EINECS</b>	Proportion (% w/w)
Propane	74-98-6	200-827-9	< 60
Butane	106-97-8	203-448-7	< 60
Contains: < 0.1% 1,3 Butadiene			

Date of Issue: 16 August 2023 Date of Revision: August 2028



#### **Product Identifiers**

Product	Units per Box	Hole Size Suitable (mm)
03-301	36	150 – 200
03-302	25	230 – 250
03-303	25	270 – 311

# 4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

### **Ingestion**

If swallowed, do NOT induce vomiting.

### **Eye Contact**

If in eyes wash out immediately with water.

### **Skin Contact**

If skin or hair contact occurs, remove containinated clothing and flush skin and hair with running water

### Inhalation

If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

### **First Aid Facilities**

Ventilation and respiratory aid.

### **Medical Attention**

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

### **Suitable Extinguishing Media**

This product contains propellant gas under pressure. In the unlikely event that the product is involved in a fire, use water fog, fine spray mist, or dry chemical or foam to extinguish.

#### Hazards from combustion products

This product contains an extremely flammable propellant under pressure. In the unlikely event of a fire, hazardous vapours such as carbon monoxide may be emitted.

### **Hazardous Decomposition**

Will not burn, however fluorocarbons, hydrogen fluoride may be produced in extreme conditions

#### Precautions for fire fighters and special protective equipment

If product is subject to fire, use fully self-contained breathing aparatus, chemical resistant protective clothing, and face mask while fighting the fire.

### **Hazchem Code**

1Z

# 6. ACCIDENTAL RELEASE MEASURES

#### **Emergency Procedures**

This product will contribute confined explosions (aerosol) when heated excessively. The aerosol content is isolated from contact with other chemicals or likely incompatibles. In the event of a fire or explosion emergency: prevent product from escaping to drains and waterways; contain leaking packaging in a containment facility; prevent vapours or dusts from building up in confined areas; ensure that drain valves are closed at all times; and clean up and report spills immediately.

Date of Issue: 16 August 2023 Emergency Number: +61 8 9303 6100 Page 3 of 7
Date of Revision: August 2028



### Methods and materials for containment

## Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping use explosion proof pump or hand pump or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

### Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

# 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

This product can be safely handled in ambient conditions. Use only in accordance with manufacturers instructions. Do not handle if indications of overheating or expansion.

#### **Conditions for Safe Storage**

This product is sensitive to extreme heat conditions. Do not manually handle aerosol products that have overheated, or expanded into the packaging. Store in a cool, dry place away from direct sunlight. Check packaging indicator during warehousing for heat treatment.

#### **Incompatible Materials**

None known

# 8. EXPOSURE CONTROLS: PERSONAL PROTECTION

### **National Exposure Standards**

The time weighted average concentration (TWA) for the liquid component of this product is: Recommended: 1900 mg/m³ (800 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: Recommended: None specified: consider 2000 ppm, which is the maximum allowable exposure concentration at any time. Some chemicals have a concentration exposure limit referred to as Peak Limitation, where None applies in this case; and the risk of sensitisation in contact with or by inhalation of this product is None, in this case. The liquid product component of this product is isolated in an aerosol device.

# **Biological Limit Values (BLV)**

None specified

### **Engineering Controls: Temperature control**

The device is fitted with a patented thermostat on the packaging to identify expiration, or hazardous use of overheated product. Avoid overheating the product through appropriate storage of the device. Store out of direct sun light and convection heating, such as vehicle interiors, etc.

#### **Personal Protective Equipment**

**Respiratory Protection:** There is no specific requirement – all gases and vapours are isolated.

Date of Issue: 16 August 2023 Emergency Number: +61 8 9303 6100

Page 4 of 7

Date of Revision: August 2028



Eye Protection: Always use safety glasses or a face shield when handling this product.

**Skin/Body Protection:** Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. Do not handle product that has overheated – indicated by the thermostat on the outside of the packaging. Aerosols of all varieties can be hazardous when the liquid contents have been heated beyond their boiling points. Avoid physical contact with aerosols that have overheated.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Device: aerosol in packaging.
Device: properties	None	Secured aerosol within dual bladder bag
Aerosol chemical contents:		
Boiling Range	°C	-42
Density	g/ml	1.52 – 2.01
Explosive Limits in Air	% vol/vol	1.5 – 9.6
Vapour Pressure (@ 25°C)	bar	4.0 – 6.0
Vapour Pressure (@ 55°C)	bar	7.0 – 9.0
Heat of Combustion	kJ/g	Not determined
Flash Point	°C	-104
Chemical solubility:		
in Water	g/l	< 200 ppm
in other solvents	(name)	Hydrocarbons, organic solvents
Autoignition Temperature	°C	> 490

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

# 10. STABILITY AND REACTIVITY: Aerosol Contents

### **Chemical stability**

Stable at room temperature and pressure

## **Conditions to avoid**

None known

### **Hazardous reactions**

Excessive heat, alkali metals.

### **Hazardous polymerisation**

Will not occur

# 11. TOXICOLOGICAL INFORMATION: Aerosol Contents

# **Acute Effects**

### Ingestion

This product is unlikely to be ingested. On discharge of the device, the product is a gas.

### **Eye Contact**

This product is unlikely to be in contact with eyes or eye tissue; however, there are not expected to be any adverse effects with the contents.

### **Skin Contact**

This product is unlikely to be in contact with skin or hair. There are no adverse effects expected with the contents.

Date of Issue: 16 August 2023 Emergency Number: +61 8 9303 6100 Page 5 of 7
Date of Revision: August 2028



#### Inhalation

This product is unlikely to be inhaled in general use; however, avoid inhalation of this product. Fluorohydrocarbons can result in adverse respiratory symptoms, and in a pressurised environment, could contribute to pulmonary oedema.

### **Chronic Effects**

There are no expected chronic effects with this product.

### **Other Health Effects Information**

There are no other effects with this product, except in the situations of intentional misuse. Always comply with the manufacturer's instructions when using this product.

### **Toxicological Information**

Oral LD<sub>50</sub>: Butane: Inhalation (rat): 658,000 mg/m3/4hr

Inhalation TC<sub>Lo</sub>: No data available

# 12. ECOLOGICAL INFORMATION: Aerosol Contents

### **Ecotoxicity: Liquid Component (isolated)**

# **Aquatic Toxicity:**

Fish Toxicity LC<sub>50</sub>: No data available: not expected to be harmful. No data available: not expected to be harmful. Since a lique is not expected to be harmful. No data available: not expected to be harmful. No data available: not expected to be harmful.

Mobility/Biodegradability: This product is not expected to biodegrade. The contents of this product is

expected to evaporate and degrade naturally.

# 13. DISPOSAL CONSIDERATIONS: Aerosol Contents

### **Disposal Methods**

This product must be disposed in accordance with chemical and aerosol handling requirements.

#### **Special Precautions**

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment in accordance with the local authority, or considered for use in recycling.

### 14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3363	UN No.	1950	UN No.	1950
Proper Shipping Name	Dangerous Goods in Apparatus	Proper Shipping Name	Aerosols	Proper Shipping Name	Aerosols
DG Class	9	DG Class	2	DG Class	2
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	III	Packing Group	III	Packing Group	III
Hazchem	1Z	Hazchem	2YE	Hazchem	2YE

### **Dangerous Goods Segregation**

This product is Class 9, packing group III, regulated for Transport via Road and Rail.

# 15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICIS
Status: Listed

Date of Issue: 16 August 2023 Emergency Number: +61 8 9303 6100 Page 6 of 7
Date of Revision: August 2028



# 16. OTHER INFORMATION

Reasons for Issue: Updated information and amalgamated supplier changes in all sections.

**Abbreviations:** 

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

GHS: Global Harmonising System PPE: Personal Protective Equipment

N/R: Non-regulated N/A: Not applicable

References:

Supplier Safety Data Sheets

• <a href="http://hcis.safeworkaustralia.gov.au/HazardousChemical">http://hcis.safeworkaustralia.gov.au/HazardousChemical</a> (August 23)

• Animal toxicology data: http://chem.sis.nlm.nih.gov/chemidplus (August 23)

• Ecotoxicology data: <a href="https://cfpub.epa.gov/ecotox">https://cfpub.epa.gov/ecotox</a> (August 23)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact MTI Group Pty Ltd.

Date of Issue: 16 August 2023 Date of Revision: August 2028