

# VAPCO PRODUCTS, INC.

# Safety Data Sheet Blowout Cylinder

# **SECTION 1: Identification**

#### **GHS Product identifier**

Product name

**Blowout Cylinder** 

Product number

BLO-SC, BLO-LC

**Brand** 

Vapco

## Recommended use of the chemical and restrictions on use

High Pressure, No Rinse Coil Cleaner

## Supplier's details

Name

Vapco Products, Inc.

Address

401 Marshall Road

Valley Park, Missouri 63088

**United States** 

Telephone

(636) 923-2121

Fax

(636) 923-3002

email

info@VapcoProducts.com

# **Emergency phone number**

(800) 255-3924

# **SECTION 2: Hazard identification**

# Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Carcinogenicity, Cat. 2
- Eye damage/irritation, Cat. 2A
- Gases under pressure, compressed gas
- Skin corrosion/irritation, Cat. 2

# GHS label elements, including precautionary statements

#### **Pictogram**



# Signal word Warning

**Hazard statement(s)** 

H280 Contains gas under pressure; may explode if heated
H315 Causes skin irritation
H319 Causes serious eye irritation
H351 Suspected of causing cancer

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands and other exposed areas thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see First Aid 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.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P501 Dispose of contents/container to the specifications of local, regional,

national, and international regulations.

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

#### **Mixtures**

## **Hazardous components**

#### 1. Dichloromethane

Concentration 80 - 90 % (weight) EC no. 200-838-9

CAS no. 75-09-2 Index no. 602-004-00-3

2. Butoxyethanol

Concentration 1 - 10 % (weight)

EC no. 203-905-0 CAS no. 111-76-2 Index no. 603-014-00-0

## **SECTION 4: First-aid measures**

#### Description of necessary first-aid measures

General advice Never give anything by mouth to an unconscious person. If you feel unwell,

seek medical advice (show the label where possible).

If inhaled First, take proper precautions to ensure your own safety before attempting

rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in

a position comfortable for breathing. Get medical advice/attention.

In case of skin contact Immediately drench affected area with water for at least 15 minutes.

Remove contaminated clothing immediately. Obtain medical attention if

irritation develops or persists.

In case of eye contact Immediately rinse with water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Obtain medical attention

if irritation develops or persists.

If swallowed Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

# Most important symptoms/effects, acute and delayed

**Acute Health Hazards** 

Symptoms/Injuries: Harmful if inhaled. May cause irritation to eyes and skin.

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic systems. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances. Symptoms/Injuries After Skin Contact: Contact with gas/liquid escaping the container can cause dermatitis and defatting.

**Symptoms/Injuries After Eye Contact:** Contact with vapors and/or liquids escaping the container may cause irritation with redness, tearing, and blurred vision.

**Chronic Health Hazards:** Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

#### Indication of immediate medical attention and special treatment needed, if necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Note to physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

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

## Suitable extinguishing media

Dry chemical, foam, or carbon dioxide (CO2).

## Specific hazards arising from the chemical

**Explosion Hazard:** Container may explode in heat of fire. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

**Reactivity:** Increased risk of fire or explosion. Certain mixtures of chlorinated solvent may be flammable or reactive under certain conditions.

# Special protective actions for fire-fighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use dry chemical, foam, or carbon dioxide (CO2). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

Hazardous Combustion Products: Carbon monoxide (CO) and carbon dioxide (CO2), chlorine, hydrogen chloride, and phosgene.

#### **Further information**

Do not allow run-off from fire fighting to enter drain or water courses.

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

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

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

# For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

#### For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

**Emergency Procedure:** Eliminate ignition source first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### **Environmental precautions**

Prevent entry into sewers and public waters. Avoid release to the environment.

## Methods and materials for containment and cleaning up

**For Containment:** Ventilate area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**Waste Disposal:** Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld.

# Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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# **SECTION 7: Handling and storage**

#### Precautions for safe handling

**Additional Hazards When Processed:** Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Pressurized container: May burst if heated. Do not pierce or burn, even after use.

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Other Precautions: Keep out of reach of children. Follow label instructions. Vapors may collect in low lying area.

## Conditions for safe storage, including any incompatibilities

**Technical Measures:** Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

**Storage Conditions:** Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. **Incompatible Materials:** Strong acids and alkalis, strong oxidizing agents, chemically active metals (e.g. aluminum, barium, lithium, sodium, magnesium, potassium, titanium, and beryllium), concentrated nitric acid, some plastics, rubbers and coatings.

Storage Temperature: <50°C/122°F.

# SECTION 8: Exposure controls/personal protection

# **Control parameters**

#### CAS: 111-76-2 (EC: 203-905-0)

Butoxyethanol

20 ppm, 97 mg/m3 PEL inhalation; ACGIH (USA): 20 ppm TLV® inhalation; 20 ppm TWA inhalation; Cal/OSHA: 20 ppm PEL inhalation; NIOSH: 5 ppm REL inhalation; 5 ppm, 24 mg/m3 TWA inhalation; OSHA: 50 ppm PEL inhalation; 240 mg/m3 PEL inhalation; 50 ppm, 240 mg/m3 TWA inhalation

#### CAS: 124-38-9

Carbon dioxide

Cal/OSHA: 5000 ppm, (ST) 30,000 ppm PEL inhalation; NIOSH: 5000 ppm, (ST) 30,000 ppm REL inhalation; OSHA: 5000 ppm PEL inhalation; 9000 mg/m3 PEL inhalation

# CAS: 75-09-2 (EC: 200-838-9)

Dichloromethane

ACGIH (USA): 50 ppm TWA inhalation; Cal/OSHA (USA): 125 ppm, 435 mg/m3 STEL inhalation; OSHA (USA): 25 ppm PEL inhalation

#### Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

# Individual protection measures, such as personal protective equipment (PPE)

#### **Pictograms**











#### Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

# Skin protection

Wear protective gloves and clothing.

# **Body protection**

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

## Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

# SECTION 9: Physical and chemical properties and safety characteristics

## Basic physical and chemical properties

Physical state

Appearance

Color

Odor

Odor threshold

Melting point/freezing point

Boiling point or initial boiling point and boiling range

Flammability

Lower and upper explosion limit/flammability limit

Flash point

Auto-ignition temperature

Decomposition temperature

рΗ

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water (log value)

Vapor pressure

Density and/or relative density

Relative vapor density

Liquid

Clear liquid

Colorless

Solvent odor

N/D

N/D

104 °F (40 °C) estimated

Not considered a flammable aerosol or an extremely

flammable aerosol by OSHA (29 CFR 1910.1200)

1.1% - 19% estimated

154.4 °F (68.0 °C) lowest flashing component

N/D

N/A

Insoluble in water

439 hPa at 20 °C (1 hPa = 0.75006 mmHg)

1.299 (10.825 lb/gal)

> 1 (Air = 1)

**SECTION 10: Stability and reactivity** 

## Reactivity

Reacts with chemically active metals and acids. Certain mixtures of chlorinated solvents may be flammable or reactive under certain conditions. Increased risk of fire or explosion.

#### **Chemical stability**

Contains gas under pressure; may explode if heated. Pressurized container: may burst if heated.

## Possibility of hazardous reactions

None known.

#### Conditions to avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

#### Incompatible materials

Strong acids and alkalis, strong oxidizing agents, chemically active metals (e.g. aluminum, barium, lithium, sodium, magnesium, potassium, titanium, and beryllium), concentrated nitric acid, some plastics, rubbers and coatings.

## Hazardous decomposition products

Carbon monoxide (CO) and carbon dioxide (CO2), chlorine, hydrogen chloride, and phosgene.

# **SECTION 11: Toxicological information**

## Information on toxicological effects

#### **Acute toxicity**

The ATE (gas inhalation) of the mixture is: 45000 ppmV The ATE (oral) of the mixture is: 5000 mg/kg bw

#### 2-Butoxyethanol

LD50 Oral - Rat - 880 mg/kg

LD50 Skin - Rabbit - 1,060 mg/kg

LD50 Intraperitoneal - Rat - 220 mg/kg

LD50 Intravenous - Rat - 307 mg/kg

LD50 Oral - Rat - 470 mg/kg

LC50 Inhalation - Rat - 450 ppm

LC50 - Oncorhynchus mykiss (rainbow trout) - 1,474 mg/l - 96 h

EC50 - Daphnia magna (water flea) - 1,550 mg/l - 48 h

EC50 - Pseudokirchneriella subcapitata (green algae) - 1,840 mg/l - 72 h

LC50 - Daphnia magna (water flea) - 1.550 mg/l - 48 h

LC50 - Pseudokirchneriella subcapitata (green algae) - 911 mg/l - 72 h

#### Dichloromethane

LD50 Oral - Rat - > 2,000 mg/kg

LC50 Inhalation - Rat - 52,000 mg/m3

LD50 Skin - Rat - > 2,000 mg/kg

LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h

NOEC - Cyprinodon variegatus (sheepshead minnow) - 30 mg/l - 96 h

EC50 - Daphnia magna (water flea) - 1,682.00 mg/l - 48 h

#### Skin corrosion/irritation

Contact causes irritation and may cause an allergic reaction that includes redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.

#### Serious eye damage/irritation

Contact causes irritation with stinging, burning, tearing, and redness.

#### Respiratory or skin sensitization

High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulated substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances. Prolonged exposure may causes unconsciousness, heart effects, kidney effects, and death.

## Germ cell mutagenicity

Not classified.

#### Carcinogenicity

Possible cancer causing agents and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

#### Reproductive toxicity

Not classified.

#### STOT-single exposure

May cause drowsiness or dizziness. Inhalation of vapors may be narcotic or anesthetic. Ingestion of liquid will cause gastrointestinal distress, irritation, and possibly nausea. Liquid or vapors may be irritating to skin and eyes.

#### STOT-repeated exposure

Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

#### Aspiration hazard

Not classified.

#### Additional information

#### **Acute Health Hazards**

Symptoms/Injuries: Harmful if inhaled. May cause irritation to eyes and skin.

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic systems. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances. Symptoms/Injuries After Skin Contact: Contact with gas/liquid escaping the container can cause dermatitis and defatting.

**Symptoms/Injuries After Eye Contact:** Contact with vapors and/or liquids escaping the container may cause irritation with redness, tearing, and blurred vision.

**Chronic Health Hazards:** Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

# **SECTION 12: Ecological information**

#### **Toxicity**

The ATE (gas inhalation) of the mixture is: 45000 ppmV

The ATE (oral) of the mixture is: 5000 mg/kg bw

#### 2-Butoxyethanol

LD50 Oral - Rat - 880 mg/kg

LD50 Skin - Rabbit - 1,060 mg/kg

LD50 Intraperitoneal - Rat - 220 mg/kg

LD50 Intravenous - Rat - 307 mg/kg

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LC50 Inhalation - Rat - 450 ppm

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EC50 - Pseudokirchneriella subcapitata (green algae) - 1,840 mg/l - 72 h

LC50 - Daphnia magna (water flea) - 1,550 mg/l - 48 h

LC50 - Pseudokirchneriella subcapitata (green algae) - 911 mg/l - 72 h

#### Dichloromethane

LD50 Oral - Rat - > 2,000 mg/kg

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LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h

NOEC - Cyprinodon variegatus (sheepshead minnow) - 30 mg/l - 96 h

EC50 - Daphnia magna (water flea) - 1,682.00 mg/l - 48 h

# Persistence and degradability

Component or components of this product are not biodegradable.

#### Bioaccumulative potential

This product is not expected to bioaccumulate.

#### Mobility in soil

This product is mobile in soil.

#### Other adverse effects

This material is toxic to aquatic life.

# **SECTION 13: Disposal considerations**

# **Disposal methods**

# **Product disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

## Sewage disposal

This material is toxic to aquatic life. Keep out of sewers and waterways.

#### Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container.

# **SECTION 14: Transport information**

DOT (US)

UN Number: UN1956

Class: 2.2

Packing Group: N/A

Proper Shipping Name: Compressed gas, n.o.s.

**IMDG** 

UN Number: UN1956

Class: 2.2

Packing Group: N/A

Proper Shipping Name: Compressed gas, n.o.s.

IATA

UN Number: UN1956

Class: 2.2

Packing Group: N/A

Proper Shipping Name: Compressed gas, n.o.s.

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations specific for the product in question

## California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

Dichloromethane CAS number: 75-09-2

# **Canadian Domestic Substances List (DSL)**

Chemical name: Methane, dichloro-

CAS: 75-09-2

Chemical name: Ethanol, 2-butoxy-

CAS: 111-76-2

## **Massachusetts Right To Know Components**

Dichloromethane CAS number: 75-09-2

Ethylene glycol monobutyl ether

CAS: 111-76-2

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# **New Jersey Right To Know Components**

Dichloromethane CAS number: 75-09-2

Ethylene glycol monobutyl ether

CAS: 111-76-2

# Pennsylvania Right To Know Components

Dichloromethane CAS number: 75-09-2

Ethylene glycol monobutyl ether

CAS: 111-76-2

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Dichloromethane CAS number: 75-09-2

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ethylene glycol monobutyl ether

CAS: 111-76-2

# **Toxic Substances Control Act (TSCA) Inventory**

All chemicals are listed or exempt.

## **SECTION 16: Other information**

N/A = Not applicable; N/D = Not determined

## Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

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**Preparation information**Prepared by: Jessica Wilson

Date prepared: 6-17-2022