

Safety Data Sheet

acc. to OSHA HCS & WHMIS

Printing date 11/03/2014

Reviewed on 11/03/2014

1 Identification

- **Trade name:** **BINZEL® ABI-SPRAY AS (SOLVENT BASED ANTI-SPATTER)**
- **Article number:** 192.8016
- **MSDS Number:** 126
- **Relevant identified uses of the substance:** PREVENTS SPATTER BUILD UP
- **Manufacturer/Supplier:**
ADDRESS:

ABICOR Binzel USA
650 Medimmune Ct.
Suite 110
Frederick, MD 21703
Tel: (800) 542-4867
Fax: (301) 846-4497
- **Information department:**
Tel: (905) 428-1611
<http://www.binzel-abicor.com/>
- **Emergency telephone number:**
ChemTrec (800) 424-9300
Canada only: CANUTEC (Call collect) (613) 996-6666

2 Hazard(s) identification

- **Classification of the substance or mixture:**



GHS04 Gas cylinder

Press. Gas H280

Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Carc. 2 H351

Suspected of causing cancer.

STOT RE 2 H373

May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315

Causes skin irritation.

Eye Irrit. 2A H319

Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Signal word:** Warning

- **Hazard-determining components of labeling:**

dichloromethane

- **Hazard statements:**

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

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May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements:**

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

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

Do not breathe mist/vapours/spray.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Gently wash with plenty of soap and water.

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Call a POISON CENTER/doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse.

Protect from sunlight. Store in a well-ventilated place.

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

· **WHMIS-symbols:**

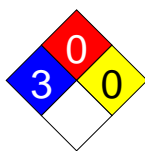
A - Compressed gas

D1B - Toxic material causing immediate and serious toxic effects

D2B - Toxic material causing other toxic effects



· **NFPA ratings (scale 0 - 4):**



Health = 3

Fire = 0

Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

75-09-2	dichloromethane	60-100%
124-38-9	carbon dioxide	3-5%

· **Additional information:** Exact concentrations are being withheld as trade secrets.

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4 First-aid measures

- **After inhalation:**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
- **After skin contact:**
Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- **After eye contact:**
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- **After swallowing:** Do not induce vomiting, Immediately call a poison center/ doctor.
- **Most important symptoms and effects, both acute and delayed:**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

75-09-2 dichloromethane

EL	Long-term value: 25 ppm IARC 2B
EV	Long-term value: 175 mg/m ³ , 50 ppm

124-38-9 carbon dioxide

EL	Short-term value: 15000 ppm Long-term value: 5000 ppm
EV	Short-term value: 54.000 mg/m ³ , 30.000 ppm Long-term value: 9.000 mg/m ³ , 5.000 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves:** PVA gloves

· **Eye protection:** Not required.

9 Physical and chemical properties

· Form:	Liquid Under Pressure
· Color:	Light yellow
· Odor:	Strong Ether-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-96.7 °C
Boiling point/Boiling range:	104 °C
· Flash point:	Not applicable, as aerosol. Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Ignition temperature:	605 °C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.

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· Explosion limits	
Lower:	13.0 Vol %
Upper:	22.0 Vol %
· Vapor pressure at 20 °C: 453 hPa	
· Density at 20 °C: 1.056 g/cm ³	
· Relative density: Not determined.	
· Vapour density at 20 °C: 2.93 (AIR=1)	
· Evaporation rate at 20 °C: 27.5 (BA=1)	
· Solubility in / Miscibility with Water at 20 °C: 20 g/l	
· Partition coefficient (n-octanol/water): 1.25 log POW	
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	90.5 %
· Solids content: 5.5 %	
· Other information	
VOC Content:	>900 g/kg
VOC %:	90%
HAP Content:	90%
MIR Value:	0.068 g O ₃ /g

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

75-09-2 dichloromethane

Oral	LD50	1600 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/l (rat)

- **Primary irritant effect**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

75-09-2	dichloromethane	2B
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- **NTP (National Toxicology Program)**

75-09-2	dichloromethane	R
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- **OSHA-Ca (Occupational Safety & Health Administration)**

75-09-2	dichloromethane	
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12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:**
 Water hazard class 2 (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
- **Other adverse effects:** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**
- **Recommendation:**
 Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

14 Transport information

- | | |
|--|--|
| <ul style="list-style-type: none"> · UN-Number · DOT, TDG, IMDG, IATA | <p style="text-align: center;">UN1950</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT · TDG · IMDG · IATA | <p>Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III</p> <p>1950 Aerosols</p> <p>AEROSOLS</p> <p>AEROSOLS, non-flammable, containing substances in Division 6.1, Packing Group III</p> |

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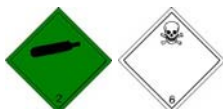
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- Transport hazard class(es)

- DOT

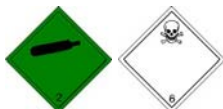


- Class 2.2
- Label 2.2+6.1
- TDG (Transport dangerous goods):



- Class 2 5T Gases
- Label 2.2+6.1

- IMDG, IATA



- Class 2.2
- Label 2.2+6.1

- Packing group
- DOT, TDG, IMDG, IATA Not regulated

- Environmental hazards:
- Marine pollutant: No

- Special precautions for user: Warning: Gases
- Danger code (Kemler): -
- EMS Number: F-D,S-U

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

- Transport/Additional information:

- DOT
- Quantity limitations On passenger aircraft/rail: Forbidden
On cargo aircraft only: Forbidden
- Remarks: This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.

-
- TDG This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.

- Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

-
- IMDG
 - Limited quantities (LQ) 1L

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· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· IATA	
· Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· UN "Model Regulation":	UN1950, Aerosols, 2.2 (6.1)

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

75-09-2 | dichloromethane

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

75-09-2 | dichloromethane

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency):

75-09-2 | dichloromethane

L

· TLV (Threshold Limit Value established by ACGIH):

75-09-2 | dichloromethane

A3

· NIOSH-Ca (National Institute for Occupational Safety and Health):

75-09-2 | dichloromethane

· Canadian substance listings

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

75-09-2 | dichloromethane

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· **Canadian Ingredient Disclosure list (limit 1%):**

124-38-9	carbon dioxide
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· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS04 GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**

dichloromethane

· **Hazard statements**

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

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

Do not breathe mist/vapours/spray.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Gently wash with plenty of soap and water.

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Call a POISON CENTER/doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse.

Protect from sunlight. Store in a well-ventilated place.

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

16 Other information

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This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. This sheet was compiled from the latest available information and reliable sources. Procedures are based on accepted usage. They are not necessarily all-inclusive and may vary in every circumstance. Abicor Binzel USA provides no warranties either expressed or implied and assumes no responsibility for the accuracy or completeness of the data 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 hazards that exist.

• **Department issuing MSDS:** Product safety department

• **Contact:** N/Av

• **Date of preparation / last revision** 11/03/2014 / -

• **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Press. Gas: Gases under pressure: Dissolved gas

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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