Printing date 05/01/2018

Reviewed on 09/21/2016

#### **1** Identification

- · Product identifier: A041212-16A
- · Trade name: MC CROSSFIRE ANTISPAT 160Z
- · Item number(s): MC-AS-16-A, A041212-16A
- MSDS Number: 414
- Manufacturer/Supplier: USA ADDRESS :

MICHIGAN ARC PRODUCTS INC 2040 AUSTIN TROY, MI 48083 PH (248) 740-8066 FAX (248) 740-8067

CANADIAN ADDRESS :

MAP CANADA LTD 325 HEALEY RD., UNIT 1 BOLTON, ON L7E 5C1 PH (905) 951-2788 FAX (905) 951-6256

Information department: (905) 951-2788
 Emergency telephone number:

ChemTrec (800) 424-9300 / 1-(703)-741-5970 Canada only: CANUTEC (Call collect) (613) 996-6666

### 2 Hazard(s) identification

• Classification of the substance or mixture:		
GHS04 Gas cylinder		
Gases Under Pressure - Compressed Gas	H280	Contains gas under pressure; may explode if heated.
GHS08 Health hazard		
Carcinogenicity – Category 2	H351	Suspected of causing cancer.
Specific Target Organ Toxicity - Repeated Exposure - Category 2	e H373	May cause damage to organs through prolonged or repeated exposure.
GHS07		
Acute Toxicity (Oral) - Category 4	H302	Harmful if swallowed.
Skin Irritation - Category 2	H315	Causes skin irritation.
Eye Irritation - Category 2A	H319	Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure - Category 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness. (Contd. on page 2)

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# Trade name: MC CROSSFIRE ANTISPAT 160Z

GHS label elements         The product is classified and labeled according to the Globally Harmonized System (GHS).         Signal word: Warning         Hazard-determining components of labeling:         methylene chloride         Hazard statements:         Contains gas under pressure; may explode if heated.         Harmful if swallowed.         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:         Obtain special instructions before use.         Do not handle until all safety precautions have been read and understood.         Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         Do not pierce or burn, even after use.         Do not breathe dust/fume/gas/mist/vapours/spray.	Label elements	(Contd. of page 1
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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present ar easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/international regulations. NFPA ratings (scale 0 - 4): Health = 2 Fire = 0		
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NFPA ratings (scale 0 - 4): Health = 2 Fire = 0		
$\begin{array}{c} 0 \\ 1 \\ \end{array}$ Health = 2 T Fire = 0		al/international regulations.
2 1 Fire = 0	NFPA ratings (scale 0 - 4):	
2 1 Fire = 0		
Reactivity = 1		
	$\checkmark$ Reactivity = 1	

# **3 Composition/information on ingredients**

· Chemical characterization: Mixtures

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

· Dangerou	us components:	
75-09-2	methylene chloride	60-100% w/w
124-38-9	carbon dioxide	1-5% w/w
		(Contd. on page

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(Contd. of page 2)

# Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 05/01/2018

Reviewed on 09/21/2016

#### Trade name: MC CROSSFIRE ANTISPAT 160Z

#### · Additional information:

Exact concentrations and/or compositions are being withheld as trade secrets.

#### 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 equipment. Keep unprotected persons away.
- 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

- · Handling
- · 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.

(Contd. on page 4)

CA

(Contd. of page 3)

# Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 05/01/2018

Reviewed on 09/21/2016

# Trade name: MC CROSSFIRE ANTISPAT 160Z

• Specific end use(s): No further relevant information available.

#### 8 Exposure controls/personal protection

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

	s with limit values that require monitoring at the workplace:
75-09-2 meth	nylene chloride
EL (Canada)	Long-term value: 25 ppm IARC 2A
EV (Canada)	Long-term value: 175 mg/m <sup>3</sup> , 50 ppm
PEL (USA)	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL (USA)	See Pocket Guide App. A
TLV (USA)	Long-term value: 174 mg/m³, 50 ppm BEI
124-38-9 car	bon dioxide
EL (Canada)	Short-term value: 15000 ppm Long-term value: 5000 ppm
EV (Canada)	Short-term value: 54,000 mg/m³, 30,000 ppm Long-term value: 9,000 mg/m³, 5,000 ppm
PEL (USA)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
REL (USA)	Short-term value: 54,000 mg/m³, 30,000 ppm Long-term value: 9000 mg/m³, 5000 ppm
TLV (USA)	Short-term value: 54,000 mg/m <sup>3</sup> , 30,000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
•	with biological limit values:
	nylene chloride
BEI (USA) 0.	.3 mg/L ledium: urine
	ime: end of shift
	arameter: Dichloromethane (semi-quantitative)
<ul> <li>Personal pro</li> <li>General prot</li> <li>Keep away fr</li> <li>Wash hands</li> </ul>	formation: The lists that were valid during the creation were used as basis. bective equipment ective and hygienic measures: om foodstuffs, beverages and feed. before breaks and at the end of work. quipment: Use suitable respiratory protective device in case of insufficient ventilation. f hands:
	otective gloves
	aterial has to be impermeable and resistant to the product/ the substance/ the preparation. <b>Ioves:</b> PVA gloves
material of g	(Contd. on page 5)

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# Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 05/01/2018

Reviewed on 09/21/2016

# Trade name: MC CROSSFIRE ANTISPAT 160Z

# • Eye protection: Not required.

9 Physical and chemical prope	erties	
<ul> <li>Form:</li> <li>Color:</li> <li>Odor:</li> <li>Odor threshold:</li> </ul>	Liquid Under Pressure Light yellow Strong Ether-like Not determined.	
· pH-value:	Not determined.	
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	-96.7 °C 104 °C	
· Flash point:	Not applicable. Not applicable, as aerosol.	
· 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.	
<ul> <li>Explosion limits Lower: Upper:</li> </ul>	13 Vol % 22 Vol %	
· Vapor pressure at 20 °C:	453 hPa	
<ul> <li>Density at 20 °C:</li> <li>Relative density:</li> <li>Vapor density at 20 °C:</li> <li>Evaporation rate at 20 °C:</li> </ul>	1.056 g/cm <sup>3</sup> Not determined. 2.93 (AIR=1) 27.5 (BA=1)	
<ul> <li>Solubility in / Miscibility with Water at 20 °C:</li> </ul>	20 g/l	
· Partition coefficient (n-octanol/wat	ter): 1.25 log POW	
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not determined. Not determined.	
<ul> <li>Solvent content: Organic solvents: VOC content:</li> </ul>	90.5 % 0.00 % 0.0 g/l / 0.00 lb/gl	
· Other information	VOC Content: >900 g/kg VOC %: 90% HAP Content: 90% MIR Value: 0.068 g O <sub>3</sub> /g	

(Contd. on page 6)

Printing date 05/01/2018

Reviewed on 09/21/2016

#### Trade name: MC CROSSFIRE ANTISPAT 160Z

(Contd. of page 5)

#### **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 methylene chloride

Oral LD50 1,600 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.
- · 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 methylene chloride

#### · NTP (National Toxicology Program)

75-09-2 methylene chloride

# **12 Ecological information**

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems
- **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.

(Contd. on page 7)

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Printing date 05/01/2018

Reviewed on 09/21/2016

# Trade name: MC CROSSFIRE ANTISPAT 160Z

(Contd. of page 6)

# **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.

4 Transport information	
· UN-Number · DOT, TDG, IMDG, IATA	UN1950
<ul> <li>UN proper shipping name</li> <li>DOT+TDG</li> </ul>	Aerosols, non-flammable, containing substances i Division 6.1, Packing Group III
· IMDG · IATA	AEROSOLS AEROSOLS, non-flammable, containing substances i Division 6.1, Packing Group III
· Transport hazard class(es)	
· DOT	
Class	2.2
· Label · TDG (Transport dangerous goods):	2.2, 6.1
· Class	2 5T Gases
· Label	2.2+6.1
·IMDG	
· Class	2.2

Printing date 05/01/2018

Reviewed on 09/21/2016

# Trade name: MC CROSSFIRE ANTISPAT 160Z

	(Contd. of page 7
· Label	2.2/6.1
- Class - Label	2.2 2.2 (6.1)
<ul> <li>Packing group</li> <li>DOT, TDG, IMDG, IATA</li> </ul>	Not regulated
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>Special precautions for user:</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Stowage Code</li> </ul> • Segregation Code	Warning: Gases - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Categor C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of litre: Segregation as for class 9. Stow "separated from class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS
<ul> <li>Transport in bulk according to Annex I MARPOL73/78 and the IBC Code:</li> </ul>	Il of Not applicable.
· Transport/Additional information:	
<ul> <li>DOT</li> <li>Quantity limitations</li> <li>Remarks:</li> </ul>	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantit shipping requirements are met.
<ul> <li>TDG</li> <li>Excepted quantities (EQ)</li> </ul>	This product may be shipped according to the Limiter Quantity Exceptions provided that all Limited Quantit shipping requirements are met. Code: E0 Not permitted as Excepted Quantity
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Remarks:</li> </ul>	120 ml Code: E0 Not permitted as Excepted Quantity This product may be shipped according to the Limite Quantity Exceptions provided that all Limited Quantit shipping requirements are met.
	(Contd. on page

Printing date 05/01/2018

Reviewed on 09/21/2016

#### Trade name: MC CROSSFIRE ANTISPAT 160Z

(Contd. of page 8)

· 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":

UN 1950 AEROSOLS, 2.2 (6.1)

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

 $\cdot$  Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

75-09-2 methylene chloride

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempted

#### · Proposition 65

· Chemicals known to cause cancer:

75-09-2 methylene chloride

· 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.

· Canadian substance listings

· Canadian Domestic Substances List (DSL/NDSL):

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

75-09-2 methylene chloride

· Canadian Ingredient Disclosure list (limit 1%):

124-38-9 carbon dioxide

· GHS label elements

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



· Signal word Warning

• Hazard-determining components of labeling: methylene chloride

(Contd. on page 10)

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Printing date 05/01/2018

Reviewed on 09/21/2016

#### Trade name: MC CROSSFIRE ANTISPAT 160Z

llererd statements	(Contd. of page
Hazard statements Contains gas under pressure; may explode if heated.	
Harmful if swallowed.	
Causes skin irritation.	
Causes skin inflation.	
Suspected of causing cancer.	
May cause respiratory irritation. May cause drowsiness or	dizzinoss
May cause damage to organs through prolonged or repeat	
Precautionary statements	eu exposure.
Obtain special instructions before use.	
	and understood
Do not handle until all safety precautions have been read a Keep away from heat, hot surfaces, sparks, open flames a	
Do not pierce or burn, even after use.	na other ignition sources. No smoking.
Do not breathe dust/fume/gas/mist/vapours/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/fa	ace protection
If on skin: Wash with plenty of soap and water.	
IF INHALED: Call a POISON CENTER/doctor if you feel ui	nwell
IF INHALED: Remove person to fresh air and keep comfor	
IF IN EYES: Rinse cautiously with water for several minu	
easy to do. Continue rinsing.	
IF exposed or concerned: Get medical advice/attention.	
Get medical advice/attention if you feel unwell.	
If eye irritation persists: Get medical advice/attention.	
Take off contaminated clothing and wash it before reuse.	
Store in a well-ventilated place.	
Store locked up.	
Protect from sunlight. Do not expose to temperatures exce	eding 50 °C/122 °F.
Dispose of contents/container in accordance with local/reg	

### **16 Other information**

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. M.A.P. Canada Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of M.A.P. Canada Ltd.. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. M.A.P. Canada Ltd. is an ISO 9001:2000 registered company.

- · Department issuing SDS: Product safety department
- · Contact: Stephen Nowicki
- Date of preparation / last revision 05/01/2018 / 1
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent