

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### · 1.1 Product identifier

#### · Trade name: 838AR

· Other Means of Identification: Total Ground™ Carbon Conductive Coating (Aerosol)

· Related Part Number: 838AR-Aerosol, 838AR-340G

· UFI: SVJ0-506Q-Y001-04NU

### · 1.2 Relevant identified uses of the substance or mixture and uses advised against

· Application of the substance / the mixture Electrically conductive coating and EMI/RFI shield.

· Uses advised against Not available

### · 1.3 Details of the supplier of the safety data sheet

#### · Manufacturer/Supplier:

MG Chemicals Ltd. (Head Office)  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA  
+(1) 905-331-1396  
info@mgchemicals.com

MG Chemicals  
Heame House, 23 Bliston Street  
Sedgely Dudley DY3 1JA.  
United Kingdom  
+(44) 1663 362888

MG Chemicalst Ltd.  
Level 2, Vision Exchange, Building Territorials Street,  
Zone 1, Central Business, District,  
Birkirkara CBD 1070,  
MALTA

· Further information obtainable from: sds@mgchemicals.com

### · 1.4 Emergency telephone number:

Verisk 3E (Access code: 335388)  
+(44) 20 3514787  
+(1) 760 476 3961  
UK Toll free: +(0) 800 680 0425

Members of the public seeking specific information on poisons should contact:  
In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 111

## SECTION 2: Hazards identification

### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

# Safety data sheet

## according to UK REACH

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Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.  
Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H336 May cause drowsiness or dizziness.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

##### Hazard pictograms



GHS02

GHS07

GHS08

##### Signal word Warning

##### Hazard-determining components of labelling:

acetone  
4-methylpentan-2-one  
Carbon black  
barium bis(dinonylnaphthalenesulfonate)

##### Hazard statements

H223-H229 Flammable aerosol. Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer. Route of exposure: Inhalation.  
H361 Suspected of damaging fertility or the unborn child.  
H336 May cause drowsiness or dizziness.

##### Precautionary statements

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P280 Wear protective gloves, protective clothing, and eye protection.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.  
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

##### Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

#### Determination of endocrine-disrupting properties

78-93-3 Butan-2-one

List II

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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

#### Dangerous components:

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	21.0%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3	Butan-2-one Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	20.0%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	12.0%
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4	4-methylpentan-2-one Flam. Liq. 2, H225; Carc. 2, H351; Repr. 2, H361fd; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 ATE: LC50/4 h inhalative: 11 mg/L	12.0%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	Propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	7.0%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	6.0%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	6.0%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	4.0%
CAS: 1333-86-4 EINECS: 215-609-9	Carbon black Carc. 2, H351	3.0%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	2.0%
CAS: 25619-56-1 EINECS: 247-132-7	barium bis(dinonylnaphthalenesulfonate) Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	0.2%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### After inhalation:

Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention.

#### After skin contact:

Wash with plenty of water or shower.

Take off contaminated clothing and wash it before reuse.

#### After eye contact:

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice or attention.

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- **After swallowing:**  
Rinse mouth.  
If exposed or concerned: Get medical advice or attention.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use water spray to cool containers.
- **5.2 Special hazards arising from the substance or mixture**  
Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.  
Prevent fire-fighting wash from entering waterway or sewer system.  
Aerosols containers may erupt with force at temperatures above 50 °C [122 °F].
  - **Hazardous combustion products:**  
Carbon Oxides (CO<sub>x</sub>)  
formaldehyde  
other toxic fumes
- **5.3 Advice for firefighters**
  - **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Remove or keep away all sources of extreme heat or open flames.  
Avoid breathing mist, spray, or vapors.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Collect liquid in a sealable, chemical-resistant container.  
Wash residue with a paper towel and place dirty towels in container.  
Use soap and water to remove the last traces of residue.
- **6.4 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.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Wear protective gloves and eye protection.  
Wash hands and exposed skin thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid breathing mist, spray, or vapors.

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Obtain, read and follow all safety instructions before use.

· **Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

Keep in a dry and clean area, away from incompatible substances

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

Do not expose to temperatures exceeding 50 °C [122 °F].

Store locked up.

· **7.3 Specific end use(s)** See section 1.2

**SECTION 8: Exposure controls/personal protection**

· **8.1 Control parameters**

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

<b>67-64-1 acetone</b>	
WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>78-93-3 Butan-2-one</b>	
WEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
<b>108-10-1 4-methylpentan-2-one</b>	
WEL	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm Sk, BMGV
<b>67-63-0 Propan-2-ol</b>	
WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
<b>123-86-4 n-butyl acetate</b>	
WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
<b>141-78-6 ethyl acetate</b>	
WEL	Short-term value: 1468 mg/m <sup>3</sup> , 400 ppm Long-term value: 734 mg/m <sup>3</sup> , 200 ppm
<b>1333-86-4 Carbon black</b>	
WEL	Short-term value: 7 mg/m <sup>3</sup> Long-term value: 3.5 mg/m <sup>3</sup>
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk

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· <b>Ingredients with biological limit values:</b>	
<b>78-93-3 Butan-2-one</b>	
BMGV	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
<b>108-10-1 4-methylpentan-2-one</b>	
BMGV	20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one

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

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

· **Respiratory protection:**

Advice should be sought from respiratory protection specialists.  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· **Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
For Incidental Contact: Type = Nitrile ; Permeation 3 (> 360 min); Min. Thickness = 0.11 mm ; EN 374-2



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

Safety glasses



Safety glasses or tightly sealed goggles: EN 166

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

· Physical state	Aerosol (gas+liquid)
· Form:	Liquid, in aerosol format.
· Colour:	Black
· Odour:	Ester-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	56 °C
· Flammability	Flammable.
· Lower and upper explosion limit	
· Lower:	2 Vol %
· Upper:	9.4 Vol %
· Flash point:	-17 °C
· Auto-ignition temperature:	465 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	8,300 hPa (74-98-6 propane)
· Vapour pressure at 50 °C:	800 hPa
· Density:	Not determined.
· Relative density at 20 °C:	0.83
· Vapour density (air=1):	>2 (Air = 1)
· Particle characteristics	Not available

### 9.2 Other information

#### · Important information on protection of health and environment, and on safety.

· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	84.00 %
· VOC (EC)	90.00 %
· Solids content:	9.8 %
· Evaporation rate	<1 (ButAc=1)

#### · Information with regard to physical hazard classes

· Aerosols	Flammable aerosol. Pressurised container: May burst if heated.
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## SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability** Chemically stable at normal temperatures and pressures.

#### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid**

Direct sunlight

Temperatures above 50 °C, open flames, and incompatible substances

· **10.5 Incompatible materials:**

Strong oxidizing agents

Strong bases

Strong reducing agents

Acids

· **10.6 Hazardous decomposition products:**

No dangerous decomposition products known.

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

### ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	69.2–138 mg/L (ATE)
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### 67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>7,426 mg/kg (rabbit)
Inhalative	LC50/ 3 h	132 mg/L (rat)

### 78-93-3 Butan-2-one

Oral	LD50	2,737 mg/kg (rat)
Dermal	LD50	6,480 mg/kg (rabbit)
Inhalative	LC50/ 8 h	23,500 mg/m <sup>3</sup> (rat)

### 74-98-6 propane

Inhalative	LC50/4 h	>800,000 ppm (rat)
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### 108-10-1 4-methylpentan-2-one

Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/L (ATE) 8.3–16.6 mg/L (rat)

### 67-63-0 Propan-2-ol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/L (rat)

### 75-28-5 isobutane

Inhalative	LC50/4 h	>800,000 ppm (rat)
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### 123-86-4 n-butyl acetate

Oral	LD50	>10,768 mg/kg (rat)
Dermal	LD50	>17,600 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/L (rat)

### 141-78-6 ethyl acetate

Oral	LD50	5,620 mg/kg (rabbit)
Inhalative	LC50/4 h	1,600 mg/L (rat)

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<b>1333-86-4 Carbon black</b>		
Oral	LD50	>15,400 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD/50	5 g/kg (rabbit)
Inhalative	LC50/4 h	35.7 mg/L (rat)
<b>25619-56-1 barium bis(dinonylnaphthalenesulfonate)</b>		
Oral	LD50	500 mg/kg (ATE)
Inhalative	LC50/4 h	1.5 mg/L (ATE)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Suspected of causing cancer. Route of exposure: Inhalation.
- **Reproductive toxicity** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Summary of Effects and Symptoms by Routes of Exposure**

- **Eyes:**
  - redness
  - pain
  - blurred vision
  - possible corneal damage
- **Skin:**
  - dry skin
  - rash
  - allergic contact dermatitis
  - redness
- **Inhalation:**
  - shortness of breath
  - sore throat
  - cough
  - headache
  - dizziness
  - drowsiness
- **Swallowed:**
  - Low toxicity:
  - abdominal pain
  - nausea
  - vomiting
  - diarrhea

### • Additional toxicological information:

- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.

### • 11.2 Information on other hazards

<b>• Endocrine disrupting properties</b>		
78-93-3	Butan-2-one	List II

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## SECTION 12: Ecological information

### · 12.1 Toxicity

· Aquatic toxicity:	
<b>67-64-1 acetone</b>	
EC50/ 48 h	13,500 mg/L (daphnia)
LC50 96h	5,540 mg/L (trout)
<b>67-63-0 Propan-2-ol</b>	
EC50/ 24 h	5,102 mg/L (daphnia)
EC50/ 72 h	>2,000 mg/L (algae)
LC50 96h	9,640 mg/L (minnow)
<b>123-86-4 n-butyl acetate</b>	
LC50 96h	18 mg/L (minnow)
<b>1333-86-4 Carbon black</b>	
EC50/ 24 h	>5,600 mg/L (aquatic invertebrates)
EC50/ 72 h	>10,000 mg/L (aquatic algae and cyanobacteria)
EC0/ 3 h	>800 mg/L (microorganisms)
LC50	>1,000 mg/L (fish)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

### · 12.7 Other adverse effects

#### · Additional ecological information:

##### · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.

## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

· **Recommendation** This material and its container must be disposed of as hazardous waste.

· European waste catalogue	
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP7	Carcinogenic
HP10	Toxic for reproduction

### · Uncleaned packaging:

#### · Recommendation:

Containers may still present a chemical hazard/ danger when empty.  
Dispose of contents in accordance with all local, regional, national, and international regulations.



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Where possible retain label warnings and SDS and observe all notices pertaining to the product.  
· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.


## SECTION 14: Transport information

· <b>14.1 UN number or ID number</b> · <b>ADR, IMDG, IATA</b>	UN1950
· <b>14.2 UN proper shipping name</b> · <b>ADR, IMDG</b> · <b>IATA</b>	AEROSOLS Aerosols, flammable
· <b>14.3 Transport hazard class(es)</b> · <b>ADR</b>	 · <b>Class</b> 2 5F Gases. · <b>Label</b> 2.1
· <b>IMDG, IATA</b>	 · <b>Class</b> 2.1 Gases. · <b>Label</b> 2.1
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	Not applicable
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Stowage Code</b>  · <b>Segregation Code</b>	Not applicable. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 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: Segregation as for the appropriate subdivision of class 2.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.

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<b>· Transport/Additional information:</b>   Limited Quantity  838AR-340G	
<b>· ADR</b> · Limited quantities (LQ) · Excepted quantities (EQ)  · Transport category · Tunnel restriction code	1L Code: E0 Not permitted as Excepted Quantity  2 D
<b>· IMDG</b> · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
<b>· UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

## SECTION 15: Regulatory information

### · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### · Poisons Act

<b>· Part 1: Regulated explosives precursors</b>		
None of the ingredients is listed.		
<b>· Part 2: Regulated poisons</b>		
None of the ingredients is listed.		
<b>· Part 3: Reportable explosives precursors</b>		
67-64-1	acetone	Listed
<b>· Part 4: Reportable poisons</b>		
None of the ingredients is listed.		

#### · Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3a FLAMMABLE AEROSOLS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

#### · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

<b>· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>
None of the ingredients is listed.

### · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H220 Extremely flammable gas.

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- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008	
Aerosols, Section 2.3.1	On basis of test data
Serious eye damage/irritation Skin sensitisation Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

• **Department issuing SDS:** Regulatory department

• **Contact:** sds@mgchemicals.com

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• **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 2: Aerosols – Category 2

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

• **\* Data compared to the previous version altered.**