

Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015 Date of issue: 03/18/2016 Revision date: 10/19/2020 Version: 1.2

# **SECTION 1: IDENTIFICATION**

# 1.1. PRODUCT IDENTIFIER

Product name Product code : ZP-9F Aerosol

: Not available

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Distributor

Use of the substance/mixture : Non-Destructive Testing

## 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Manufacturer Magnaflux 155 Harlem Ave. Glenview, IL 60025 - USA T: 847-657-5300

# 1.4. EMERGENCY TELEPHONE NUMBER

Emergency number : CHEMTREC 800-424-9300

# **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

### GHS classification

Flam. Aerosol 1 Liquefied Gas Eye Irrit. 2A STOT SE 3

### 2.2. LABEL ELEMENTS

## GHS labeling

Hazard pictograms (GHS)



Signal word (GHS) Hazard statements (GHS)

Precautionary statements (GHS)

- : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes
- serious eye irritation. May cause drowsiness or dizziness.
- : Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash hands thoroughly after handling. Wear eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If in eyes: 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Store locked up. Dispose of contents/container in accordance with local/regional/ national/international regulations.

# 2.3. OTHER HAZARDS

No additional information available.

# 2.4. UNKNOWN ACUTE TOXICITY (GHS)

Not applicable.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1. SUBSTANCE

Not applicable.



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

#### 3.2. MIXTURE

| Name                                  | Product identifier  | %       |
|---------------------------------------|---------------------|---------|
| Acetone                               | (CAS No) 67-64-1    | 45 - 70 |
| Isopropyl alcohol                     | (CAS No) 67-63-0    | 10 - 30 |
| Petroleum gases, liquefied, sweetened | (CAS No) 68512-91-4 | 5 - 10  |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

# **SECTION 4: FIRST AID MEASURES**

#### DESCRIPTION OF FIRST AID MEASURES 4.1.

| First-aid measures after inhalation                                   | : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.  |
|---|---|
| First-aid measures after skin contact                                 | : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.  |
| First-aid measures after eye contact                                  | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.      |
| First-aid measures after ingestion                                    | : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. |
|   |   |
| 4.2. MOST IMPORTANT SYMPTOMS AN                                       | D EFFECTS, BOTH ACUTE AND DELAYED   |
| 4.2. MOST IMPORTANT SYMPTOMS AN<br>Symptoms/injuries after inhalation | <ul> <li>D EFFECTS, BOTH ACUTE AND DELAYED</li> <li>May cause drowsiness or dizziness. May cause respiratory tract irritation.</li> </ul>   |
|   |   |
| Symptoms/injuries after inhalation                                    | : May cause drowsiness or dizziness. May cause respiratory tract irritation.  |

#### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. **EXTINGUISHING MEDIA**

| Suitable extinguishing media      | : Water fog, foam, dry chemical, carbon dioxide.   |
|-----------------------------------|--|
| Unsuitable extinguishing media    | : Do not use water jet.  |
| 5.2. SPECIAL HAZARDS ARISING FROM | I THE SUBSTANCE OR MIXTURE   |
| Fire hazard                       | : Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon.   |
| Explosion hazard                  | : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.  |
| 5.3. ADVICE FOR FIREFIGHTERS      |  |
| Firefighting instructions         | : DO NOT fight fire when fire reaches explosives. Evacuate area.   |
| Protection during firefighting    | : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool. |
|                                   |  |

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

| General measures                 | : Remove ignition sources. Use special care to avoid static electric charges. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.   |
|----------------------------------|--|
| 6.2. METHODS AND MATERIAL FOR CO | ONTAINMENT AND CLEANING UP   |
| For containment                  | : Stop leak, if possible without risk. Move containers from spill area. Use only non-sparking tools.<br>Use explosion-proof equipment. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). |
| Methods for cleaning up          | : Scoop up material and place in a disposal container. Provide ventilation.  |

### : Scoop up material and place in a disposal container. Provide ventilation.

### **REFERENCE TO OTHER SECTIONS** 6.3.

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

## **SECTION 7: HANDLING AND STORAGE**

| 7.1.       | PRECAUTIONS FOR SAFE HANDLIN | IG |  |
|------------|------------------------------|----|--|
| Additional | I hazards when processed     | :  | Keep away from sources of ignition - No smoking. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.   |
| Precautio  | ns for safe handling         | :  | Do not spray on an open flame or other ignition source. Use non-sparking tools. Use explosion-<br>proof equipment. Take precautionary measures against static discharge. Avoid breathing<br>dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Do not swallow. Handle<br>and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a<br>well-ventilated area. |
| Hygiene r  | measures                     | :  | Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.  |
| 7.2.       | CONDITIONS FOR SAFE STORAGE, | IN | CLUDING ANY INCOMPATIBILITIES  |
| Technical  | Imeasures                    | :  | Proper grounding procedures to avoid static electricity should be followed.  |
| Storage c  | conditions                   | :  | Keep locked up and out of reach of children. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatibles. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.  |
| 7.3.       | SPECIFIC END USE(S)          |    |  |

### (3)

Not available.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. CONTROL PARAMETERS

| Acetone (67-64-1) |                                      |                               |
|-------------------|--------------------------------------|-------------------------------|
| ACGIH             | ACGIH TWA (mg/m³)                    | 1188 mg/m³/8h                 |
| ACGIH             | ACGIH TWA (ppm)                      | 500 ppm/8h                    |
| ACGIH             | ACGIH STEL (mg/m <sup>3</sup> )      | 1782 mg/m <sup>3</sup> /15min |
| ACGIH             | ACGIH STEL (ppm)                     | 750 ppm/15min                 |
| OSHA              | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 2400 mg/m <sup>3</sup>        |
| OSHA              | OSHA PEL (TWA) (ppm)                 | 1000 ppm                      |
| USA - IDLH        | US IDLH (ppm)                        | 2500 ppm (10% LEL)            |
| USA - NIOSH       | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 590 mg/m³/10h                 |
| USA - NIOSH       | NIOSH REL (TWA) (ppm)                | 250 ppm/10h                   |

| Isopropyl alcohol (67-63-0) |                                       |                        |
|-----------------------------|---------------------------------------|------------------------|
| ACGIH                       | ACGIH TWA (ppm)                       | 200 ppm                |
| ACGIH                       | ACGIH STEL (ppm)                      | 400 ppm                |
| OSHA                        | OSHA PEL (TWA) (mg/m <sup>3</sup> )   | 980 mg/m³              |
| OSHA                        | OSHA PEL (TWA) (ppm)                  | 400 ppm                |
| USA - IDLH                  | US IDLH (ppm)                         | 2000 ppm (10% LEL)     |
| USA - NIOSH                 | NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 980 mg/m³              |
| USA - NIOSH                 | NIOSH REL (TWA) (ppm)                 | 400 ppm                |
| USA - NIOSH                 | NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 1225 mg/m <sup>3</sup> |
| USA - NIOSH                 | NIOSH REL (STEL) (ppm)                | 500 ppm                |

| Petroleum gases, liquefied, sweetened (68512-91-4) |                      |          |
|--|----------------------|----------|
| ACGIH ACGIH STEL (ppm)                             |                      | 1000 ppm |
| OSHA   | OSHA PEL (TWA) (ppm) | 1000 ppm |



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

## 8.2. EXPOSURE CONTROLS

| Appropriate engineering controls | : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.   |
|----------------------------------|--|
| Hand protection                  | : Wear chemically resistant protective gloves.   |
| Eye protection                   | : Safety glasses with side-shields.  |
| Skin and body protection         | : Wear suitable protective clothing.   |
| Respiratory protection           | : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| Environmental exposure controls  | : Maintain levels below Community environmental protection thresholds.   |
| Other information                | : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.                                       |

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| Physical state                              | : Gas/Pressurized Liquid                     |
|---|--|
| Appearance                                  | : Clear                                      |
| Color                                       | : White                                      |
| Odor  | : Characteristic                             |
| Odor threshold                              | : No data available                          |
| рН  | : No data available                          |
| Melting point                               | : No data available                          |
| Freezing point                              | : No data available                          |
| Boiling point                               | : No data available                          |
| Flash point                                 | : Not applicable                             |
| Relative evaporation rate (butyl acetate=1) | : No data available                          |
| Flammability (solid, gas)                   | : Flammable                                  |
| Explosion limits                            | : No data available                          |
| Explosive properties                        | : Pressurised container: May burst if heated |
| Oxidizing properties                        | : No data available                          |
| Vapor pressure                              | : No data available                          |
| Relative density                            | : No data available                          |
| Relative vapor density at 20 °C             | : No data available                          |
| Solubility                                  | : No data available                          |
| Partition coefficient: n-octanol/water      | : No data available                          |
| Auto-ignition temperature                   | : No data available                          |
| Decomposition temperature                   | : No data available                          |
| Viscosity                                   | : No data available                          |
| Viscosity, kinematic                        | : No data available                          |
| Viscosity, dynamic                          | : No data available                          |
| 9.2. OTHER INFORMATION                      |  |
| VOC content                                 | : 656.43 g/l                                 |
| VOC minus exempt solvents                   | : 221.87 g/l                                 |
| Heat of combustion                          | : No data available                          |

# SECTION 10: STABILITY AND REACTIVITY

### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

### 10.2. CHEMICAL STABILITY

Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

#### POSSIBILITY OF HAZARDOUS REACTIONS 10.3.

No dangerous reaction known under conditions of normal use.

### 10.4. CONDITIONS TO AVOID

Sources of ignition. Heat. Incompatible materials.

### 10.5. **INCOMPATIBLE MATERIALS**

Strong oxidizing agents, aldehydes, halogenated hydrocarbons, halogens, strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS 10.6.

# May include, and are not limited to: oxides of carbon.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity

: Not classified

| ZP-9F Aerosol  |   |
|--|---|
| LD50 oral rat  | > 2000 mg/kg  |
| LD50 dermal rabbit   | > 2000 mg/kg  |
| LC50 inhalation rat  | > 5 mg/l/4h   |
| Acetone (67-64-1)  |   |
| LD50 oral rat  | 5800 mg/kg  |
| LC50 inhalation rat  | 76 mg/l/4h (female)   |
| LC50 inhalation rat  | 132 mg/l/3h (male)  |
| Isopropyl alcohol (67-63-0)  |   |
| LD50 oral rat  | 5840 mg/kg  |
| LD50 dermal rabbit   | > 12800 mg/kg   |
| LC50 inhalation rat  | > 10000 ppm/6h  |
| Skin corrosion/irritation<br>Serious eye damage/irritation<br>Respiratory or skin sensitization<br>Germ cell mutagenicity<br>Carcinogenicity           | <ul> <li>Based on available data, the classification criteria are not met.</li> <li>Causes serious eye irritation.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> </ul>  |
|  |   |
| Isopropyl alcohol (67-63-0)<br>IARC group  | 3 - Not classifiable  |
| Reproductive toxicity<br>Specific target organ toxicity (single exposure)<br>Specific target organ toxicity (repeated exposure)<br>Aspiration hazard   | <ul> <li>Based on available data, the classification criteria are not met.</li> <li>May cause drowsiness or dizziness.</li> <li>Based on available data, the classification criteria are not met.</li> <li>Based on available data, the classification criteria are not met.</li> </ul>   |
| Symptoms/injuries after inhalation<br>Symptoms/injuries after skin contact<br>Symptoms/injuries after eye contact<br>Symptoms/injuries after ingestion | <ul> <li>May cause drowsiness or dizziness. May cause respiratory tract irritation.</li> <li>May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.</li> <li>Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.</li> <li>May be harmful if swallowed. May cause stomach distress, nausea or vomiting.</li> </ul> |
| SECTION 12: ECOLOGICAL INFORM  | ATION   |
| 12.1. TOXICITY   |   |
| Ecology - general  | : May cause long-term adverse effects in the aquatic environment.   |

#### PERSISTENCE AND DEGRADABILITY 12.2.

| ZP-9F Aerosol                   |                  |     |
|---------------------------------|------------------|-----|
| Persistence and degradability   | Not established. |     |
| 12.3. BIOACCUMULATIVE POTENTIAL |                  |     |
| ZP-9F Aerosol                   |                  |     |
| Bioaccumulative potential       | Not established. |     |
| 10/19/2020                      | EN (English US)  | 5/6 |



Prepared according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

#### **MOBILITY IN SOIL** 12.4.

No additional information available.

#### 12.5. **OTHER ADVERSE EFFECTS**

Effect on the global warming

: No known ecological damage caused by this product.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

| 13.1. WASTE TREATMENT METHODS     |   |  |  |  |
|-----------------------------------|---|--|--|--|
| Waste disposal recommendations    | : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible. |  |  |  |
| Additional information            | : Pressurized container: Do not pierce or burn, even after use. Flammable vapors may accumulate in the container.   |  |  |  |
| SECTION 14: TRANSPORT INFORMATION |   |  |  |  |

| In accordance with DOT/TDG/IATA/IMDG |   |
|--------------------------------------|---|
| DOT Ground                           | : Consumables, Limited Quantity   |
| TDG                                  | : Consumables, Limited Quantity   |
| IATA                                 | : UN 1950, Aerosols, Flammable, 2.1   |
| IMDG                                 | : UN 1950, Aerosols, 2.1 (Limited Quantity)                                 |
| ADDITIONAL INFORMATION               |   |
| Other information                    | : No supplementary information available.                                   |
| Special transport precautions        | : Do not handle until all safety precautions have been read and understood. |

# **SECTION 15: REGULATORY INFORMATION**

### **15.1. FEDERAL REGULATIONS**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

| Acetone (67-64-1)                               |   |
|---|---|
| EPA TSCA Regulatory Flag                        | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA |
| Isopropyl alcohol (67-63-0)                     |   |
| Subject to reporting requirements of United Sta | ates SARA Section 313   |
| EPA TSCA Regulatory Flag                        | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA |
| SARA Section 313 - Emission Reporting           | 1.0 %   |
| NFPA health hazard                              | : 2   |
| NFPA fire hazard                                | : 4   |
| NFPA reactivity                                 |   |



### **15.2. US STATE REGULATIONS**

| ZP-9F Aerosol                 |  |
|-------------------------------|--|
| State or local regulations    | This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |
| SECTION 16: OTHER INFORMATION |  |

| Date of issue     | : | 03/18/2016 |
|-------------------|---|------------|
| Revision date     | : | 10/19/2020 |
| Other information | : | None.      |

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.