



# Zingaluspray

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 05.02.2016

Revision date: 05.02.2016

Supersedes: 28.04.2015

Version: 04.02

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Zingaluspray  
Product code : 308/83  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Function or use category : Aerosol propellants

##### 1.2.2. Uses advised against

No additional information available

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

##### Pacific Evergreen Industries Ltd.

1480 - 14th Street  
West Vancouver, BC, Canada  
V7T 2S3  
Information Telephone # : 604-926-5564

#### 1.4. Emergency telephone number

24 Hr. Emergency Tel # : 352-323-3500

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Aerosol 1 H222  
STOT SE 3 H336  
Asp. Tox. 1 H304  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

##### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11  
F; R15  
Xn; R65  
N; R50/53  
R67

Full text of R-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H222 - Extremely flammable aerosol  
H304 - May be fatal if swallowed and enters airways  
H336 - May cause drowsiness or dizziness  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

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P251 - Pressurized container: Do not pierce or burn, even after use  
P261 - Avoid breathing gas, spray, vapours  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor  
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER/doctor/physician if you feel unwell  
P331 - Do NOT induce vomiting  
P391 - Collect spillage  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F  
P501 - Dispose of contents/container to National regulations

**Note P** : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Zinc Powder — Zinc Dust (Stabilised)	(CAS No.) 7440-66-6 (EC no) 231-175-3 (EC index no) 030-001-01-9	34 - 45	N; R50/53
Dimethylether	(CAS No.) 115-10-6 (EC no) 204-065-8 (EC index no) 603-019-00-8	20 - 30	F+; R12
METHYLAL	(CAS No.) 109-87-5 (EC no) 203-714-2	10 - 20	F+; R12
Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified	(CAS No.) 64742-95-6 (EC no) 918-668-5	15 - 20	Xn; R65 Xi; R37 N; R51/53 R10 R66 R67
aluminium powder (stabilised)	(CAS No.) 7429-90-5 (EC no) 231-072-3 (EC index no) 013-002-00-1	< 5	F; R11 F; R15
zinc oxide	(CAS No.) 1314-13-2 (EC no) 215-222-5 (EC index no) 030-013-00-7	< 3	N; R50/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc Powder — Zinc Dust (Stabilised)	(CAS No.) 7440-66-6 (EC no) 231-175-3 (EC index no) 030-001-01-9	34 - 45	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Dimethylether	(CAS No.) 115-10-6 (EC no) 204-065-8 (EC index no) 603-019-00-8	20 - 30	Flam. Gas 1, H220 Press. Gas
METHYLAL	(CAS No.) 109-87-5 (EC no) 203-714-2	10 - 20	Flam. Liq. 1, H224
Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified	(CAS No.) 64742-95-6 (EC no) 918-668-5	15 - 20	STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
aluminium powder (stabilised)	(CAS No.) 7429-90-5 (EC no) 231-072-3 (EC index no) 013-002-00-1	< 5	Water-react. 2, H261 Flam. Sol. 1, H228
zinc oxide	(CAS No.) 1314-13-2 (EC no) 215-222-5 (EC index no) 030-013-00-7	< 3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R-, H- and EUH-phrases: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. Remove victim to fresh air. If you feel unwell, seek medical advice.
- First-aid measures after inhalation : Remove the victim into fresh air. Seek immediate medical advice. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Rinse and then wash skin with water and soap. If irritation persists, consult a doctor.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. If skin irritation persists, seek medical advice.
- First-aid measures after ingestion : Immediately after ingestion: give lots of water to drink. IF SWALLOWED: Immediately call a POISON CENTER or doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Coughing. Dry/sore throat. Dizziness, headaches, nausea. Respiratory difficulties.
- Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.
- Symptoms/injuries after eye contact : May cause slight irritation.
- Symptoms/injuries after ingestion : Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

See the emergency and first aid section of this material safety data sheet.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : powder, water spray, foam, carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable.
- Explosion hazard : Contents under pressure. Do not expose to heat.
- Reactivity : None under normal conditions. Heating will cause rise in pressure with risk of bursting. Avoid ignition sources. Avoid temperature above 50°C.

#### 5.3. Advice for firefighters

- Precautionary measures fire : Avoid all eyes and skin contact and do not breathe vapour and mist. Exclude sources of heat, sparks and open flame.
- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Take account of environmentally hazardous firefighting water.
- Protection during firefighting : Fire-resistant protective clothing. Appropriate self-contained breathing apparatus may be required. Approach from upwind.
- Other information : Avoid release to the environment. Refer to special instructions/safety data sheets.

### SECTION 6: Accidental release measures

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

- General measures : Avoid all eyes and skin contact and do not breathe vapour and mist. Ensure adequate ventilation. Wear personal protective equipment.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid undiluted product to come into sewer or superficial water.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Clean up any spills as soon as possible, using an absorbent material to collect it. Cover spill with inert material, e.g.: sand, earth, vermiculite.
- Methods for cleaning up : Cover spill with inert material, e.g.: sand, earth, vermiculite. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
- Other information : Fire/explosion hazard.

#### 6.4. Reference to other sections

Reference to other sections (8, 13).

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Do not breathe gas, fumes, vapour or spray. Keep away from open flames, hot surfaces and sources of ignition. Do not spray on a naked flame or any incandescent material.
- Precautions for safe handling : Use only in well ventilated areas. Take precautions against electrostatic charges. Heating will cause rise in pressure with risk of bursting. Avoid ignition sources. Avoid temperature above 50°C. Do not pierce or burn, even after use. Handle in accordance with good industrial hygiene and safety procedures.
- Hygiene measures : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothes. Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Use grounded electrical/mechanical equipment. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Storage conditions : Protect against frost. Protect from heat and direct sunlight.
- Incompatible products : Keep away from: oxidants, strong acids and strong bases.
- Heat-ignition : Protect from heat and direct sunlight. ignition sources. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.
- Storage area : Store away from heat. Keep in a cool, well-ventilated place.
- Special rules on packaging : meet the legal requirements.

#### 7.3. Specific end use(s)

Paint.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified (64742-95-6)		
EU	IOELV TWA (mg/m <sup>3</sup> )	3,25 mg/m <sup>3</sup> EU OELIII
EU	IOELV TWA (ppm)	1 ppm EU OELIII

#### 8.2. Exposure controls

- Appropriate engineering controls : If possible with source exhaust and good ventilation.
- Personal protective equipment : Accidental release of the contents: In case of splash hazard: safety glasses. Dust/aerosol mask with filter type P2. Protective clothing. Gloves.



- Hand protection : chemical resistant PVC gloves (to European standard EN 374 or equivalent). Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
- Eye protection : Use splash goggles when eye contact due to splashing is possible. (EN 166).
- Skin and body protection : Protective clothing.
- Respiratory protection : Dust production: dust mask with filter type P2.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Liquid under pressure. Aerosol.
- Colour : silver.
- Odour : Aromatic odour.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available

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Freezing point	: No data available
Boiling point	: 41 °C mixture
Flash point	: -41 °C with propellant gas
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,22 g/ml (20°C)
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: During use, flammable vapour/air mixtures may be formed.
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content : 658,64 g/dm<sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions. Heating will cause rise in pressure with risk of bursting. Avoid ignition sources. Avoid temperature above 50°C.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No flames, No sparks. Eliminate all sources of ignition. Keep away from heat and direct sunlight. Do not spray on an open flame or other ignition source.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified (64742-95-6)</b>	
LD50 oral rat	<= 5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Other information	: Likely routes of exposure: inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

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### Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified (64742-95-6)

NOEC chronic fish <= 10 mg/l

NOEC chronic crustacea <= 10 mg/l

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

### Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified (64742-95-6)

Bioaccumulative potential Bioaccumulation: not applicable.

#### 12.4. Mobility in soil

### Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified (64742-95-6)

Ecology - soil Low mobility (soil).

#### 12.5. Results of PBT and vPvB assessment

### Solvent naphtha (petroleum), light arom. Low boiling point naphtha - unspecified (64742-95-6)

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

#### 12.6. Other adverse effects

Other information : Avoid release to the environment. Refer to special instructions/safety data sheets.

## SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Waste disposal recommendations : Do not discharge into the sewer. Remove waste in accordance with local and/or national regulations.

Additional information : Do not pierce or burn, even after use.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1. UN number

UN-No. : 1950

#### 14.2. UN proper shipping name

Proper Shipping Name : AEROSOLS

Transport document description : UN 1950 AEROSOLS, 2.1, (D)

#### 14.3. Transport hazard class(es)

Class (UN) : 2

Hazard labels (UN) : 2.1



#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

Classification code (UN) : 5F

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Orange plates

:



Special provision (ADR) 190, 327, 344, 625

Transport category (ADR) 2

Tunnel restriction code : D

Limited quantities (ADR) 1L

Excepted quantities (ADR) : E0

### 14.6.2. Transport by sea

MFAG-No. : 126

### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

VOC content : 658,64 g/dm<sup>3</sup>

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Revision date: 05.02.2016

Indication of changes:

Report mixture CLP classification/labelling.

Data sources : Manufacturer/Supplier.

The content and format of this safety data sheet is in accordance with Regulation 1907/2006/EC and WHMIS 2015.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of R-, H- and EUH-phrases::

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 1	Flammable liquids Category 1
Flam. Sol. 1	Flammable solids Category 1
Press. Gas	Gases under pressure
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Water-react. 2	Substances and mixtures which in contact with water emit flammable gases Category 2
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H224	Extremely flammable liquid and vapour
H228	Flammable solid
H261	In contact with water releases flammable gas
H304	May be fatal if swallowed and enters airways
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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H411	Toxic to aquatic life with long lasting effects
R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R15	Contact with water liberates extremely flammable gases.
R37	Irritating to respiratory system.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
F	Highly flammable
F+	Extremely flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

MSDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*