



## SAFETY DATA SHEET GALVAFROID

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

#### 1.1. Product identifier

Product name GALVAFROID

Product number 1590020AE1

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

Identified uses Protective Coatings

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

Supplier Al Gurg Fosroc LLC  
PO Box 657  
Dubai  
United Arab Emirates  
+ 971 4 2858606

#### 1.4. Emergency telephone number

Emergency telephone +97142039699 (08:00 to 16:30) // +971506258232 (16:30 to 08:00)GMT+4

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Asp. Tox. 1 - H304

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

**Human health** Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. The product is irritating to eyes and skin. Harmful by inhalation. Harmful in contact with skin.

**Environmental** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

**Physicochemical** The product is flammable. Heating may generate flammable vapours.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	SOLVENT NAPHTHA
<b>Supplementary precautionary statements</b>	<p>P233 Keep container tightly closed.</p> <p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P331 Do NOT induce vomiting.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P391 Collect spillage.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p>

### 2.3. Other hazards

No other information known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

ZINC POWDER - ZINC DUST (STABILISED)			60-100%
CAS number: 7440-66-6	EC number: 231-175-3		
M factor (Acute) = 1	M factor (Chronic) = 1		
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

HYDROCARBONS, C9, aromatics			10-30%
CAS number: 64742-95-6	EC number: 918-668-5	REACH registration number: 01-2119455851-35-0000	
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411			

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1,2,4-TRIMETHYLBENZENE			5-10%
CAS number: 95-63-6		EC number: 202-436-9	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411			

MESITYLENE			1-5%
CAS number: 108-67-8		EC number: 203-604-4	
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H335 Aquatic Chronic 2 - H411			

CUMENE			<1%
CAS number: 98-82-8		EC number: 202-704-5	
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411			

XYLENE			<1%
CAS number: 1330-20-7		EC number: 215-535-7	REACH registration number: 01-2119488216-32-0000
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments**      The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.

##### Inhalation

Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

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<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Skin contact</b>	Immediately remove contaminated clothing. Rinse immediately with plenty of water. Remove contaminated clothing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

<b>General information</b>	Get medical attention promptly if symptoms occur after washing.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Keep combustible materials away from spillage. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

## GALVAFROID

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Avoid skin and eye contact.

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

**Storage precautions** Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents. Keep only in the original container.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **HYDROCARBONS, C9, aromatics**

Long-term exposure limit (8-hour TWA): WEL 19 ppm

#### **1,2,4-TRIMETHYLBENZENE**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

#### **MESITYLENE**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

#### **CUMENE**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 125 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 50 ppm 250 mg/m<sup>3</sup>

Sk

#### **XYLENE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

Sk = Can be absorbed through the skin.

**Ingredient comments** WEL = Workplace Exposure Limits

### ZINC POWDER - ZINC DUST (STABILISED) (CAS: 7440-66-6)

#### **DNEL**

Workers - Inhalation; Long term systemic effects: 5 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 83 mg/kg/day

#### **PNEC**

- Fresh water; 20.6 µg/l

- Marine water; 6.1 µg/l

### HYDROCARBONS, C9, aromatics (CAS: 64742-95-6)

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### DNEL

Professional - Dermal; systemic effects: 25 mg/kg/day  
 Professional - Inhalation; systemic effects: 150 mg/m<sup>3</sup>  
 Consumer - Oral; systemic effects: 11 mg/kg/day  
 Consumer - Inhalation; systemic effects: 32 mg/m<sup>3</sup>  
 Consumer - Dermal; systemic effects: 11 mg/kg/day

### MICRONISED ORGANIC RHEOLOGICAL AGENT

### PNEC

- Marine water; 0.00432 mg/l  
 - Fresh water; 0.0432 mg/l

### XYLENE (CAS: 1330-20-7)

### DNEL

Workers - Inhalation; Long term systemic effects: 77 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term systemic effects: 289 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 180 mg/kg/day

### PNEC

- Fresh water; 0.327 mg/l  
 - Marine water; 0.327 mg/l  
 - STP; 6.58 mg/l

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. All handling should only take place in well-ventilated areas.

### Eye/face protection

Wear chemical splash goggles.

### Hand protection

Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Rubber (natural, latex).

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

### Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

### Respiratory protection

Wear a respirator fitted with the following cartridge: Organic vapour filter.

## SECTION 9: Physical and Chemical Properties

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

Appearance	Liquid.
Colour	Grey.
Odour	Aromatic.
Odour threshold	Not applicable.
pH	Not available.
Melting point	Not available.

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<b>Initial boiling point and range</b>	155-180°C @
<b>Flash point</b>	41°C
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	0.25 kPa @ 20°C
<b>Vapour density</b>	Not available.
<b>Relative density</b>	2.58 @ 20°C
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	450°C
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not available.
<b>Explosive under the influence of a flame</b>	Not available.
<b>Oxidising properties</b>	Not available.

### 9.2. Other information

**Other information** No additional information.

**Peroxide content**

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No dangerous reactions known if used as directed.

### 10.2. Chemical stability

**Stability** No particular stability concerns.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Highly flammable liquid and vapour.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents.

### 10.5. Incompatible materials

**Materials to avoid** Keep away from oxidising materials, heat and flames.

### 10.6. Hazardous decomposition products

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**Hazardous decomposition products**      Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - inhalation

ATE inhalation (gases ppm)    87,694.14

ATE inhalation (vapours mg/l)    214.36

ATE inhalation (dusts/mists  
mg/l)    29.23

**General information**      Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**Inhalation**      Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Harmful by inhalation.

**Ingestion**      Gastrointestinal symptoms, including upset stomach.

**Skin contact**      Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin. Harmful in contact with skin. May cause sensitisation by skin contact.

**Eye contact**      Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

#### Toxicological information on ingredients.

##### HYDROCARBONS, C9, aromatics

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg)    3,592.0

Species    Rat

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg)    3,160.0

Species    Rabbit

##### Acute toxicity - inhalation

Acute toxicity inhalation  
(LC<sub>50</sub> vapours mg/l)    6.2

Species    Rat

ATE inhalation (vapours  
mg/l)    6.2

##### Skin corrosion/irritation

**Animal data**      Based on available data the classification criteria are not met.

##### Serious eye damage/irritation

**Serious eye  
damage/irritation**      Based on available data the classification criteria are not met.



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### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

### Reproductive toxicity

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not determined.

**Target organs** Respiratory system, lungs

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways.

## XYLENE

### Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,100.0

### Carcinogenicity

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## SECTION 12: Ecological Information

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

#### Ecological information on ingredients.

#### ZINC POWDER - ZINC DUST (STABILISED)

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

##### Chronic aquatic toxicity

**M factor (Chronic)** 1

#### HYDROCARBONS, C9, aromatics

**Acute toxicity - fish** LL50, 96 hours: 9.2 mg/l, Onchorhynchus mykiss (Rainbow trout)

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### Acute toxicity - aquatic invertebrates

EL50, 48 hours: 3.2 mg/l, Daphnia magna

### Acute toxicity - aquatic plants

NOELR, 72 hours: 1 mg/l, Selenastrum capricornutum  
Estimated value.

### XYLENE

### Toxicity

Not considered toxic to fish.

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

### HYDROCARBONS, C9, aromatics

### Biodegradation

Water - Degradation (%) 78: 28 days  
The substance is readily biodegradable.

### XYLENE

### Persistence and degradability

The product is biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

Not available.

#### Partition coefficient

Not available.

### 12.4. Mobility in soil

#### Ecological information on ingredients.

### XYLENE

### Mobility

The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

#### Ecological information on ingredients.

### HYDROCARBONS, C9, aromatics

### Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

#### Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### General information

Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

#### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor.

## SECTION 14: Transport information

## GALVAFROID

### 14.1. UN number

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (CONTAINS SOLVENT NAPHTHA)

### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30

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Tunnel restriction code (D/E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
EH40/2005 Workplace exposure limits.

### 15.2. Chemical safety assessment

Not available.

## SECTION 16: Other information

**General information** The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

**Revision date** 19/09/2016

**Revision** 2

**Hazard statements in full** H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
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.  
H411 Toxic to aquatic life with long lasting effects.

**Supersedes date** 25/07/2010

**SDS number** 24404

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.