

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

### 1.1. Product identifier

Product form : Mixture  
Product name : Esterset - Part A  
Product code : DSESTSE000

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

#### Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : Polyester based repair mortar

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

The Industrial Maintenance Group  
Unit M, Riverside Industrial Estate  
Fazeley, Tamworth  
B78 3RW, Staffordshire  
T 01827 283 322  
[sales@img-limited.co.uk](mailto:sales@img-limited.co.uk), [www.img-limited.co.uk](http://www.img-limited.co.uk)

### 1.4. Emergency telephone number

Emergency number : 01827 283 322

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226  
Acute toxicity (inhalation: dust, mist) Category 4 H332  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Reproductive toxicity, Category 2 H361  
Specific target organ toxicity – Repeated exposure, Category 1 H372  
Full text of H- and EUH-statements: see section 16

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

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation.

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Danger  
Contains : Styrene

Hazard statements (CLP) : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.

# Esterset - Part A

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary statements (CLP) | : P201 - Obtain special instructions before use.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.<br>P308+P313 - IF exposed or concerned: Get medical advice/attention.<br>P312 - Call a POISON CENTRE or doctor if you feel unwell.<br>P314 - Get medical advice/attention if you feel unwell.<br>P321 - Specific treatment (see supplemental first aid instruction on this label). |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name    | Product identifier                     | %                | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                   |
|---------|----------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Styrene | CAS-No.: 100-42-5<br>EC-No.: 202-851-5 | $\geq 30 - < 40$ | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361d<br>STOT RE 1, H372 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.                                                                    |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.                                                            |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.                                         |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                                                                                                                           |
| Self protection of the first-aiders   | : First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).                                               |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : Harmful if inhaled.           |
| Symptoms/effects after skin contact | : Irritation.                   |
| Symptoms/effects after eye contact  | : Eye irritation.               |
| Symptoms/effects after ingestion    | : None under normal conditions. |

# Esterset - Part A

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. 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                                      | : Flammable liquid and vapour. |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

#### For non-emergency personnel

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                                        |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. |

#### For emergency responders

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.                                                                         |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |                                                                                            |
|-----------------------------------|--------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |
|-----------------------------------|--------------------------------------------------------------------------------------------|

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| Technical measures  | : Ground/bond container and receiving equipment.                                               |
| Storage conditions  | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. |
| Packaging materials | : Always store product in container of same material as original container.                    |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| Esterset - Part A                             |                                       |
|-----------------------------------------------|---------------------------------------|
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Styrene                               |
| WEL TWA (OEL TWA)                             | 430 mg/m <sup>3</sup>                 |
|                                               | 100 ppm                               |
| WEL STEL (OEL STEL)                           | 1080 mg/m <sup>3</sup>                |
|                                               | 250 ppm                               |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE |

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Safety glasses

#### Skin protection

##### Skin and body protection:

Wear suitable protective clothing

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### Hand protection:

Protective gloves

### Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| Physical state                                  | : Liquid                       |
| Colour                                          | : Yellow.                      |
| Odour                                           | : characteristic.              |
| Odour threshold                                 | : Not available                |
| Melting point                                   | : Not applicable               |
| Freezing point                                  | : Not available                |
| Boiling point                                   | : Not available                |
| Flammability                                    | : Flammable liquid and vapour. |
| Lower explosion limit                           | : Not available                |
| Upper explosion limit                           | : Not available                |
| Flash point                                     | : 32 °C                        |
| Auto-ignition temperature                       | : Not available                |
| Decomposition temperature                       | : Not available                |
| pH                                              | : Not available                |
| Viscosity, kinematic                            | : Not available                |
| Solubility                                      | : Immiscible with water.       |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                |
| Vapour pressure                                 | : Not available                |
| Vapour pressure at 50°C                         | : Not available                |
| Density                                         | : Not available                |
| Relative density                                | : 1.11                         |
| Relative vapour density at 20°C                 | : Not available                |
| Particle characteristics                        | : Not applicable               |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

# Esterset - Part A

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Inhalation:dust,mist: Harmful if inhaled.

#### Esterset - Part A

|                     |              |
|---------------------|--------------|
| ATE CLP (dust,mist) | 3.75 mg/l/4h |
|---------------------|--------------|

#### Styrene (100-42-5)

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| LD50 oral       | > 6000 mg/kg bodyweight Animal: hamster, Syrian, Animal sex: male                          |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Suspected of damaging fertility or the unborn child.  
STOT-single exposure : Not classified  
STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

#### Styrene (100-42-5)

|                                                |                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days)                     | 2000 mg/kg bodyweight Animal: rat                                                                              |
| LOAEC (inhalation, rat, vapour, 90 days)       | 0.21 mg/l air Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| NOAEL (oral, rat, 90 days)                     | 1000 mg/kg bodyweight Animal: rat                                                                              |
| NOAEL (subchronic, oral, animal/male, 90 days) | 10 mg/kg bodyweight Animal: mouse, Animal sex: male                                                            |
| STOT-repeated exposure                         | Causes damage to organs through prolonged or repeated exposure.                                                |

Aspiration hazard : Not classified

#### Styrene (100-42-5)

|                      |                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------|
| Viscosity, kinematic | 0.77 mm <sup>2</sup> /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |
|----------------------|--------------------------------------------------------------------------------------------------|

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

# Esterset - Part A

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### Styrene (100-42-5)

|                      |                                                                                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 10 mg/l Test organisms (species): Pimephales promelas                                                                                    |
| EC50 - Crustacea [1] | 4.7 mg/l Test organisms (species): Daphnia magna                                                                                         |
| EC50 72h - Algae [1] | 4.9 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 6.3 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| LOEC (chronic)       | 2.06 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                       |
| NOEC (chronic)       | 1.01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                       |

### 12.2. Persistence and degradability

#### Esterset - Part A

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Additional information                     | : Flammable vapours may accumulate in the container. Do not re-use empty containers.                                                                                                                                                    |
| Ecological waste information               | : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself. |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                          | IMDG    | IATA    | ADN     | RID     |
|------------------------------|---------|---------|---------|---------|
| 14.1. UN number or ID number |         |         |         |         |
| UN 1866                      | UN 1866 | UN 1866 | UN 1866 | UN 1866 |

# Esterset - Part A

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| ADR                                                                               | IMDG                                                                                                        | IATA                                                                              | ADN                                                                                 | RID                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 14.2. UN proper shipping name                                                     |                                                                                                             |                                                                                   |                                                                                     |                                                                                     |
| RESIN SOLUTION (Styrene)                                                          | RESIN SOLUTION (Styrene)                                                                                    | Resin solution (Styrene)                                                          | RESIN SOLUTION (Styrene)                                                            | RESIN SOLUTION (Styrene)                                                            |
| Transport document description                                                    |                                                                                                             |                                                                                   |                                                                                     |                                                                                     |
| UN 1866 RESIN SOLUTION (Styrene), 3, III, (D/E)                                   | UN 1866 RESIN SOLUTION (Styrene), 3, III                                                                    | UN 1866 Resin solution (Styrene), 3, III                                          | UN 1866 RESIN SOLUTION (Styrene), 3, III                                            | UN 1866 RESIN SOLUTION (Styrene), 3, III                                            |
| 14.3. Transport hazard class(es)                                                  |                                                                                                             |                                                                                   |                                                                                     |                                                                                     |
| 3                                                                                 | 3                                                                                                           | 3                                                                                 | 3                                                                                   | 3                                                                                   |
|  |                            |  |  |  |
| 14.4. Packing group                                                               |                                                                                                             |                                                                                   |                                                                                     |                                                                                     |
| III                                                                               | III                                                                                                         | III                                                                               | III                                                                                 | III                                                                                 |
| 14.5. Environmental hazards                                                       |                                                                                                             |                                                                                   |                                                                                     |                                                                                     |
| Dangerous for the environment: No                                                 | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-E<br>EmS-No. (Spillage): S-E | Dangerous for the environment: No                                                 | Dangerous for the environment: No                                                   | Dangerous for the environment: No                                                   |
| No supplementary information available                                            |                                                                                                             |                                                                                   |                                                                                     |                                                                                     |

### 14.6. Special precautions for user

#### Overland transport

|                                                           |                                           |
|-----------------------------------------------------------|-------------------------------------------|
| Classification code (ADR)                                 | : F1                                      |
| Limited quantities (ADR)                                  | : 5I                                      |
| Excepted quantities (ADR)                                 | : E1                                      |
| Packing instructions (ADR)                                | : P001, IBC03, LP01, R001                 |
| Special packing provisions (ADR)                          | : PP1                                     |
| Mixed packing provisions (ADR)                            | : MP19                                    |
| Portable tank and bulk container instructions (ADR)       | : T2                                      |
| Portable tank and bulk container special provisions (ADR) | : TP1                                     |
| Tank code (ADR)                                           | : LGBF                                    |
| Vehicle for tank carriage                                 | : FL                                      |
| Transport category (ADR)                                  | : 3                                       |
| Special provisions for carriage - Packages (ADR)          | : V12                                     |
| Special provisions for carriage - Operation (ADR)         | : S2                                      |
| Hazard identification number (Kemler No.)                 | : 30                                      |
| Orange plates                                             | : <div><div>30</div><div>1866</div></div> |
| Tunnel restriction code (ADR)                             | : D/E                                     |
| EAC code                                                  | : •3Y                                     |

#### Transport by sea

|                                   |              |
|-----------------------------------|--------------|
| Special provisions (IMDG)         | : 223, 955   |
| Limited quantities (IMDG)         | : 5 L        |
| Excepted quantities (IMDG)        | : E1         |
| Packing instructions (IMDG)       | : P001, LP01 |
| Special packing provisions (IMDG) | : PP1        |



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|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| IBC packing instructions (IMDG)    | : IBC03                                                |
| Tank instructions (IMDG)           | : T2                                                   |
| Tank special provisions (IMDG)     | : TP1                                                  |
| Stowage category (IMDG)            | : A                                                    |
| Properties and observations (IMDG) | : Miscibility with water depends upon the composition. |

### Air transport

|                                              |        |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA)               | : E1   |
| PCA Limited quantities (IATA)                | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L  |
| PCA packing instructions (IATA)              | : 355  |
| PCA max net quantity (IATA)                  | : 60L  |
| CAO packing instructions (IATA)              | : 366  |
| CAO max net quantity (IATA)                  | : 220L |
| Special provisions (IATA)                    | : A3   |
| ERG code (IATA)                              | : 3L   |

### Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : F1        |
| Limited quantities (ADN)          | : 5 L       |
| Excepted quantities (ADN)         | : E1        |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 0         |

### Rail transport

|                                                           |                           |
|-----------------------------------------------------------|---------------------------|
| Classification code (RID)                                 | : F1                      |
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)                          | : PP1                     |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T2                      |
| Portable tank and bulk container special provisions (RID) | : TP1                     |
| Tank codes for RID tanks (RID)                            | : LGBF                    |
| Transport category (RID)                                  | : 3                       |
| Special provisions for carriage – Packages (RID)          | : W12                     |
| Colis express (express parcels) (RID)                     | : CE4                     |
| Hazard identification number (RID)                        | : 30                      |

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |                                                                                                 |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| ACGIH                       | American Conference of Governmental Industrial Hygienists                                       |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate                                                                         |
| BCF                         | Bioconcentration factor                                                                         |
| BLV                         | Biological limit value                                                                          |
| BOD                         | Biochemical oxygen demand (BOD)                                                                 |
| CAS-No.                     | Chemical Abstracts Service number                                                               |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD                         | Chemical oxygen demand (COD)                                                                    |
| CSA                         | Chemical safety assessment                                                                      |
| DMEL                        | Derived Minimal Effect level                                                                    |
| DNEL                        | Derived-No Effect Level                                                                         |
| EC-No.                      | European Community number                                                                       |
| EC50                        | Median effective concentration                                                                  |
| ED                          | Endocrine disruptor                                                                             |
| EN                          | European Standard                                                                               |
| EWC                         | European waste catalogue                                                                        |
| IARC                        | International Agency for Research on Cancer                                                     |
| IATA                        | International Air Transport Association                                                         |
| IMDG                        | International Maritime Dangerous Goods                                                          |
| LC50                        | Median lethal concentration                                                                     |
| LD50                        | Median lethal dose                                                                              |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                            |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                                                 |

# Esterset - Part A

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration                                              |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| OSHA                        | Occupational Safety Health Administration                                    |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| PPE                         | Personal protection equipment                                                |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| TF                          | Technical function                                                           |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| TWA                         | Time Weighted Average                                                        |
| VOC                         | Volatile Organic Compounds                                                   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| UFI                         | Unique Formula Identifier                                                    |

| Full text of H- and EUH-statements:    |                                                                 |
|----------------------------------------|-----------------------------------------------------------------|
| Acute Tox. 4<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                |
| Eye Irrit. 2                           | Serious eye damage/eye irritation, Category 2                   |
| Flam. Liq. 3                           | Flammable liquids, Category 3                                   |
| Repr. 2                                | Reproductive toxicity, Category 2                               |
| Skin Irrit. 2                          | Skin corrosion/irritation, Category 2                           |
| STOT RE 1                              | Specific target organ toxicity – Repeated exposure, Category 1  |
| H226                                   | Flammable liquid and vapour.                                    |
| H315                                   | Causes skin irritation.                                         |
| H319                                   | Causes serious eye irritation.                                  |
| H332                                   | Harmful if inhaled.                                             |
| H361                                   | Suspected of damaging fertility or the unborn child.            |
| H361d                                  | Suspected of damaging the unborn child.                         |
| H372                                   | Causes damage to organs through prolonged or repeated exposure. |

Safety Data Sheet (SDS), EU

# Esterset - Part A

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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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.

