

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|                  |   |
|------------------|---|
| Trading name :   | SMC 0687-xx   |
| Substance name : | SMC, composite material made from hydrocarbon / glass fiber |
| CAS No. :        | Not applicable  |
| EC No. :         | Not applicable  |
| Index No. :      | Not applicable  |

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

|                           |   |
|---------------------------|---|
| Relevant identified uses: | SMC : Composite material for molding by compression designed to automobile and construction industry                                |
|                           | ABMC : Composite material for molding by compression/injection designed to automobile, electric, railroad and construction industry |

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

|                       |  |
|-----------------------|--|
| Manufacturer/Supplier | M.C.R (Mixt Composites Recyclables)                                    |
| Street address        | Chemin des Iles Féray<br>BP 94 07302<br>TOURNON SUR RHONE Cedex FRANCE |
| Telephone number      | + 33 (0) 4 75 07 18 18   |
| Telefax               | + 33 (0) 4 75 07 11 77   |
| Email adress          | jean-claude.cicilien@sts.group   |

#### 1.4. Emergency telephone number

|           |  |
|-----------|--|
| Telephone | France : + 33 (0)1 45 42 59 59 (INRS-Orfila) |
|-----------|--|

### 2. Hazards identification

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

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

H315 : Skin Corrosion /Irritation Cat. 2  
H319 : Serious eye damage/eye irritation Cat. 2  
H332 : Acute Toxicity Inhalation Cat. 4  
H361d : Reproductive Toxicity Cat. 2  
H372: Specific Target Organ (hearing organs) toxicity - repeated exposure Cat. 1

#### 2.2. Label elements

Hazard pictogram(s) :



Signal word : Danger



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|   |   |
|---|---|
| Hazard statement(s) :                   | H315 : Skin Corrosion /Irritation Cat. 2<br>H319 : Serious eye damage/eye irritation Cat. 2<br>H332 : Acute Toxicity Inhalation Cat. 4<br>H361d : Reproductive Toxicity Cat. 2<br>H372: Specific Target Organ (hearing organs) toxicity - repeated exposure Cat. 1  |
| Precautionary statement<br>Prevention   | P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.<br>P260: Do not breathe dust/fume/gas/mist/vapours/spray.<br>P264: Wash your hands thoroughly after handling. P 270 : Ne pas manger, boire ou fumer en manipulant ce produit<br>P280: Wear protective gloves/protective clothing/eye protection/face protection.   |
| Precautionary statement<br>Intervention | P302 + P352: IF ON SKIN: Wash with plenty of soap and water.<br>P332 + P313: If skin irritation occurs: Get medical advice/attention.<br>P362+P364: Take off contaminated clothing and wash before reuse.<br>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313: If eye irritation persists: Get medical advice/attention<br>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| Precautionary statement<br>Elimination  | P501: Dispose of contents/container to local reglementation   |

### 2.3. Other hazards

Gas leak or products spreading could easily form flammable mix when temperature reaches flashpoint.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name of the dangerous substance | CAS number | CE number | Concentration [% w/w] | CLP Classification   | Specific concentration limit |
|---------------------------------|------------|-----------|-----------------------|--|------------------------------|
| styrene                         | 100-42-5   | 202-851-5 | > 12,5                | Flam.Liq.3 - Repr.2 - AcuteTox.4* - STOTRE1 - SkinIrrit.2 - EyeIrrit.2 | -                            |

**Note D:** Substances which are susceptible to polymerize or decompose itself are generally put on the market being stabilised. These substances appear with this form in the third section. However some of these substances are put on the market being not stabilised. In this case, the supplier has to put on the label the substance name followed by the mention "not stabilized".

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

|                        |   |
|------------------------|---|
| Following inhalation   | Quickly protect the person by using an appropriate respiratory protection. In case of respiratory arrest use artificial respiration, keep the person at rest and call a doctor.                         |
| Following skin contact | In case of skin contact wash abundantly affected areas with water and soap. Take off soiled clothes (shoes included) and do not worn it again before cleaning. If the irritation remains, see a doctor. |



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Following eye contact      Clean immediately and abundantly eyes for at least 15 minute. Quickly call a doctor.  
Following ingestion      If swallowed do not induce vomiting. Keep the person at rest and quickly call a doctor.

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

Not determined

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

Not determined

### 5. FIRE-FIGHTING MEASURES

- 5.1. Extinguishing media**      Suitable extinguishing media: Sprayed water, dry chemical or foam fire extinguisher  
Unsuitable extinguishing media: Do not use extinguisher water near electric source
- 5.2. Special hazards arising from the substance or mixture**      The fire releases a large and thick smoke.
- 5.3. Advice for firefighters**      Spay water to cool down fire-exposed areas and protect personnel. If the spreaded product is not on fire, spray water to disperse vapours. Let the fire burns under control or extinguish it with fire extinguisher. Do not evacuate extinguishment products in sewer or rivers.

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures**      Use a suitable personal protection equipment to avoid skin and eyes contact.
- 6.2. Environmental precautions**      Solid matariel : no environmental effect
- 6.3. Methods and material for containment and cleaning up**      The product is too viscous to be pumped. Use shovels to put it in an appropriate container.

### 7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling**      Manipulate products with caution. Don't use near open flame, heat or ignition source. Do not eat, drink or smoke in work areas. Wash hands after use.
- 7.2. Conditions for safe storage, including any incompatibilities**      Store it in a cool and well-ventilated area and out of direct sunlight. Do not store near open flame, heat or ignition source. The floor has to be non-flammable, impermeable and form a collecting bassin.  
Storage temperature : 20°C
- 7.3. Specific end use(s)**      The product must be used in closed systems or systems with aspiration.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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### 8.1. Control parameters

Exposure limit values :

|         | TWA (8 hours)                    | STEL (15 minutes)                |
|---------|----------------------------------|----------------------------------|
| Styrene | 100 mg/m <sup>3</sup> (23,3 ppm) | 200 mg/m <sup>3</sup> (46,6 ppm) |

### 8.2. Exposure controls

|                                  |   |
|----------------------------------|---|
| Appropriate engineering controls | Mechanical dilution ventilation is recommended each time this product is used in a confined space or heated.  |
| Individual protection measures   | <p><u>Eye protection</u>: The wearing of safety spay-proof glasses is recommended. Make sure you have a wash solution for eyes.</p> <p><u>Hand protection</u>: The wearing of chemical products' resistant gloves is recommended. The gloves have to be replace if any degradation signs appear.</p> <p><u>Respiratory protection</u>: When the product concentration reaches the exposure limit values, it is recommended to wear a complete mask with filter;</p> |
| Environmental exposure controls  | Not identified (solid product)  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

|  |   |
|--|---|
| - Physical state                               | Doughy/Solid  |
| - Color  | Not available   |
| - Odour  | Styrene Hydrocarbon   |
| - Odour threshold                              | 0,04 ppm (Styrene)  |
| - pH   | Inapplicable  |
| - Melting point/freezing point                 | Not available   |
| - Initial boiling point                        | Inapplicable  |
| - Flash point                                  | Around 31 °C (styrene) (in a closed cup)  |
| - Evaporation rate                             | Not available   |
| - Flammability (solid, gas)                    | Not available   |
| - Upper/lower flammability or explosive limits | Lower explosive limit: 1.1 % volume in the air (styrene)<br>Upper explosive limite: 3.1 % volume in the air (styrene) |
| - Vapour pressure                              | 0.6 kPa at 20°C (styrene)   |
| - Vapour density                               | > 1 (/air)  |
| - Relative density                             | Not available   |
| - Solubility in water                          | Insoluble   |
| - Partition coefficient: n-octanol/water       | Not available   |
| - Auto-ignition temperature                    | > 450 °C (styrene)  |
| - Decomposition temperature                    | Not identified  |
| - Viscosity                                    | Not identified  |
| - Explosive properties                         | No  |
| - Oxidising properties                         | No  |

### 9.2. Other information

Note : the preparation's flashpoint is undetermined. The indicated value is the flashpoint of the styrene whose the flashpoint is the lowest.



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### 10. STABILITY AND REACTIVITY

|   |                          |
|---|--------------------------|
| <b>10.1. Reactivity</b>                         | No information available |
| <b>10.2. Chemical stability</b>                 | Stable                   |
| <b>10.3. Possibility of hazardous reactions</b> | Risk of polymerization   |
| <b>10.4. Conditions to avoid</b>                | No information available |
| <b>10.5. Incompatible materials</b>             | Strong oxidizer          |
| <b>10.6. Hazardous decomposition products</b>   | Harmful smoke            |

### 11. TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

|                                   |   |
|-----------------------------------|---|
| Acute toxicity                    | By inhalation : Concentrations of vapours higher than those recommended in the exposure threshold can be irritating for the eyes and the respiratory tract, cause headache, can be anesthetic and have other effects on central nervous system. In case of a very strong inhalation a coma can occur. |
| Skin corrosion/irritation         | Frequent or prolonged contacts can decrease or dry out the skin resulting in a discomfort and dermatitis.   |
| Serious eye damage/irritation     | Causes ocular tissues' damage if the product is not quickly removed.  |
| Respiratory or skin sensitisation | No information available  |
| Germ cell mutagenicity            | No information available  |
| Carcinogenicity                   | According to the available data the classification criterias are not reached.   |
| Reproductive toxicity             | Reproductive Toxicity, Category 2   |
| STOT-single exposure              | No information available  |
| STOT-repeated exposure            | Repetead inhalation of vapours can cause eyes and respiratory tract irritation, headache, fatigue, dizziness and nausea.  |
| STOT-repeated exposure            | Accidental aspiration in low quantity of the product in the lungs can cause bronchopneumonia or pulmonary oedema.   |
| Other information                 | Avoid exposition of pregnant women  |

### 12. ECOLOGICAL INFORMATION

|   |                          |
|---|--------------------------|
| <b>12.1. Toxicity</b>                           | No information available |
| <b>12.2. Persistence and degradability</b>      | No information available |
| <b>12.3. Bioaccumulative potential</b>          | No information available |
| <b>12.4. Mobility in soil</b>                   | No information available |
| <b>12.5. Results of PBT and vPvB assessment</b> | No information available |



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### 12.6. Other adverse effects

WGK \*:  
Styrene : 2  
Limestone : 0


## 13. DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods** Product : This product cannot be throw out in landfills, sewers, gutters, natural strams or rivers. This product can be burnt in a suitable installtion.

Uncleaned packaging : Empty containers have to be taken back for repackaging or destruction by authorised companies.

The treatment has to be done in compliance with national and local regulations.

## 14. TRANSPORT INFORMATION

|  | Land Transport<br>(ADR/RID) | Waterway<br>Transport (ADN) | Maritime Transport<br>(IMDG) | Air Transport (ICAO-TI / IATA-DGR)  |                          |
|--|-----------------------------|-----------------------------|------------------------------|---|--------------------------|
| 14.1. UN number  |                             | Inapplicable                |                              | 3077  |                          |
| 14.2. UN proper shipping name  |                             | Inapplicable                |                              | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.                                    |                          |
| 14.3. Transport hazard class(es)   |                             | Inapplicable                |                              | 9   |                          |
| 14.4. Packing group  |                             | Inapplicable                |                              | III   |                          |
| 14.5. Environmental hazards  |                             | Inapplicable                |                              | Oui   |                          |
| 14.6. Special precautions for user                                       |                             | Inapplicable                |                              | 3077, environmentally hazardous substance, solid, n.o.s., 9, III                      |                          |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code |                             | Inapplicable                |                              | -   |                          |
| 14.8. Label  |                             | Inapplicable                |                              |  |                          |
| 14.9. Limited quantity   |                             | Inapplicable                |                              | Passenger and Cargo Aircraft  |                          |
|  |                             |                             |                              | Packing instruction   | Net quantity max/package |
|  |                             |                             |                              | 911   | unlimited                |
| 14.10. Other infomation  |                             | Inapplicable                |                              | Specific provisions: A 97   |                          |

## 15. REGULATORY INFORMATION

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

**15.2. Chemical Safety Assessment**

**International and national rglementations:**  
Not identified

This substance does not be subject to an evaluation from the chemical safety.



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## 16. OTHER INFORMATION

### 16.1. Indication of changes

### 16.2. Abbreviations and acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways/

ADNR : Regulation for the Carriage of Dangerous Substances on the Rhine

ADR :European Agreement concerning the International Carriage of Dangerous Goods by Road

RID : Regulations concerning the international railway transport of dangerous goods

CAS: Nombre Chemical Abstract Service

CLP: Classification, étiquetage et emballage

EC: European Commission

IATA: International Air Transport Association

IBC: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

IMDG: Code maritime international des marchandises dangereuses

UN: United Nations

WGK : Wassergefährdungsklasse

### 16.3. Advices related to any appropriate formation for workers

The informations contained in this safety data sheet is based on our current knowledge from the software *Colibrisk* created by the « Fédération régionale des services de santé au travail des Pays de la Loire » and are provided according to current european directives. These informations are intended to characterize the product and help to give safety instruction. However this document does not provide no expressed or implied guarantees about the product's properties

The study report from the 2 may 2013, made by the, réalisé par la « Direction des Services aux entreprises et de la Certification (DSC) » and the « Unité Produits et Nouvelles Technologies (PNEO) » allow us to determine about the classification « flammable solid substance». Then this classification only affects the ABMC products. This choice is supported too by the « Compte-rendu de visite périodique du conseiller à la sécurité pour le transport de marchandises dangereuses » made by Bureau Veritas the 06/09/2017

Only the dangerous substances whose the concentration is higher than 0,1 % are inquired in the section 3 «COMPOSITION/INFORMATION ON INGREDIENTS ».