

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

1.1. Product identifier

Trading name :	AMC 3411-xx
Substance name :	ABMC, 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 Recyclages)
Street address	Chemin des Iles Féray BP 94 07302 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)
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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
H226: Flammable Liquids Cat. 3

2.2. Label elements

Hazard pictogram(s) :





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Signal word :	Danger
Hazard statement(s) :	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 H228: Flammable Solids Cat. 3
Precautionary statement Prevention	P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash your hands thoroughly after handling. P 270 : Ne pas manger, boire ou fumer en manipulant ce produit P280: Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement Intervention	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P332 + P313: If skin irritation occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash before reuse. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: If eye irritation persists: Get medical advice/attention P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Precautionary statement 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.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values :

	TWA (8 hours)	STEL (15 minutes)
Styrene	100 mg/m ³ (23,3 ppm)	200 mg/m ³ (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) 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



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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.

10. STABILITY AND REACTIVITY

10.1. Reactivity	No information available
10.2. Chemical stability	Stable
10.3. Possibility of hazardous reactions	Risk of polymerization
10.4. Conditions to avoid	No information available
10.5. Incompatible materials	Strong oxidizer
10.6. Hazardous decomposition products	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 degrease 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

12.1. Toxicity	No information available
12.2. Persistence and degradability	No information available
12.3. Bioaccumulative potential	No information available
12.4. Mobility in soil	No information available

12.5. Results of PBT and vPvB assessment No information available

12.6. Other adverse effects WGK *:
 Styrene : 2
 Limestone : 0

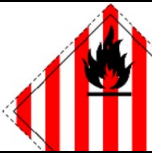

13. DISPOSAL CONSIDERATIONS

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 (ADR/RID)	Waterway Transport (ADN)	Maritime Transport (IMDG)	Air Transport (ICAO-TI / IATA-DGR)	
14.1. UN number	1325	Inapplicable	Inapplicable	3077	
14.2. UN proper shipping name	FLAMMABLE SOLIDS, ORGANIC, N.O.S. (styrene)	Inapplicable	Inapplicable	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
14.3. Transport hazard class(es)	4.1	Inapplicable	Inapplicable	9	
14.4. Packing group	II	Inapplicable	Inapplicable	III	
14.5. Environmental hazards	Yes	Inapplicable	Inapplicable	Yes	
14.6. Special precautions for user	1325 FLAMMABLE SOLIDS, ORGANIC, N.O.S.	Inapplicable	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	Inapplicable	-	
14.8. Label		Inapplicable	Inapplicable		
14.9. Limited quantity	LQ 9		Inapplicable	Passenger and Cargo Aircraft	
	Combintion packaging	Inapplicable		Packing instruction	Quantité nette maxi/colis
	6 kg	Inapplicable		911	illimité
14.10. Other infomation	DS 274 Packaging : P002 / MP10 IBC08 / B4 CT 2, (E) Transport : V11 Danger number: 40		Inapplicable	Specific provisions: A 97	



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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 reglementations:

Not identified

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

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 ».