

# SAFETY DATA SHEET

Date Issued : 09/28/2012  
Date Revised : 08/14/2014

## TEMPMAT

### 1. PRODUCT IDENTIFICATION

**DISTRIBUTOR:**

GLT PRODUCTS  
6810 COCHRAN ROAD  
SOLON, OH 44139

**EMERGENCY PHONE**

CHEMTEL: 800-255-3954

**INFORMATION PHONE:**

800-874-1748

### 2. HAZARD IDENTIFICATION

CLP RULE IS NOT APPLICABLE FOR THE FOLLOWING PRODUCTS.

GLASS YARNS FOR TEXTILES ARE NOT SIGNIFICANTLY HAZARDOUS.

DETAILS REGARDING CHEMICAL HAZARDS ARE GIVEN IN CHAPTER 3. TOXICOLOGICAL ASPECTS ARE DESCRIBED IN DETAIL IN CHAPTER 11 . THE DIAMETER OF CONTINUOUS GLASS FILAMENT FIBERS ARE HIGHER THAN 3 MM AND THEREFORE ABOVE THE RESPIRABLE RANGE OF 3 MM OR LESS, THUS MINIMISING THE POTENTIAL FOR ANY CHRONIC PULMONARY EFFECTS ASSOCIATED WITH EXPOSURE TO THESE FIBERS. THE IRRITATION CAUSED BY THESE FIBERS IS A SIMPLE MECHANICAL ONE, WHICH CAN BE CONTROLLED BY GOOD INDUSTRIAL HYGIENE PRACTICES.

HAZARDS IDENTIFIED ARE:

- MECHANICAL IRRITATION (ITCHING)
- THE FORMATION OF RESPIRABLE FILAMENTS
- EXTREMELY RARE POSSIBILITIES OF ALLERGY.

### 3. COMPOSITION - INFORMATION CONSTITUANT PARTS

**GLASS YARNS FOR TEXTILES ARE BASICALLY SOLD AS:**

**E-GLASS FIBERS**

**TEXTURIZED PRODUCTS**

**TEXTILE YARNS**

**TEXTILE YARN BEAMS**

**PLIED YARNS**

**GLASS FABRICS**

**VOLUMINIZED PRODUCTS**

**E-GLASS CHOPED STRANDS**

**GLASS FIBER FELTS**

**TEMP MAT**

THE FOLLOWING SAFETY DATA SHEET IS VALID FOR ALL ABOVE MENTIONED PRODUCTS.

THE ABOVE PRODUCTS ARE CONSIDERED "ARTICLES" ACCORDING TO OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200 AND, AS SUCH, ARE EXEMPT FROM THE SAFETY DATA SHEET PROVISIONS OF 29 CFR 1910.1200(G) (6). AS A SERVICE TO THE CUSTOMER, GLT PRODUCTS HAS PREPARED THIS MATERIAL SAFETY DATA SHEET TO PROVIDE APPROPRIATE SAFETY AND HANDLING INFORMATION. THESE PRODUCTS ARE CONSIDERED NON-HAZARDOUS WHEN USED ACCORDING TO ACCEPTED PRACTICES FOR THE INTENDED USE. THE CAS NUMBER OF GLASS FIBER IS 65997-17-3 (CORRESPONDING TO THE OXIDES USED FOR PRODUCTION).

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E GLASS IS A GLASS WITH A VERY LOW ALKALINE CONTENT. ITS COMPOSITION (EXPRESSED IN OXIDES) IS WITHIN THE FOLLOWING PERCENTAGES:

SiO <sub>2</sub>	50.8-54%
ALKALINE OXIDES (Na <sub>2</sub> O, K <sub>2</sub> O)	MAX 1%
CAO	21-24%
MGO	MAX 2%
B <sub>2</sub> O <sub>3</sub>	6-10%
AL <sub>2</sub> O <sub>3</sub>	13-15%
TiO <sub>2</sub>	MAX 0.8%
FE <sub>2</sub> O <sub>3</sub>	MAX 0.5%
F <sub>2</sub>	0-1%

SIZE IS A MIXTURE OF CHEMICALS APPLIED TO THE GLASS STRANDS IN A MAXIMUM QUANTITY OF 3% - MORE GENERALLY BETWEEN 1 % AND 1.6% BY WEIGHT.

MOST OF THIS MIXTURE IS MADE UP OF BASICALLY NON-REACTIVE HIGH MOLECULAR WEIGHT POLYMERS, OFTEN NATURAL INGREDIENTS (STARCHES) WITH NO REACTIVE SITES, WHICH ARE NOT LISTED AS SUBSTANCES IN THE 1981 EUROPEAN INVENTORY OF EXISTING COMMERCIAL SUBSTANCES (EINECS) NOR IN THE ELINCS APPENDICES (EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES) AND ARE GENERALLY EXEMPT FROM REGISTRATION ON THE AMERICAN TSCA LISTS.

IN SOME CASES, SIZES ARE PREPARED FROM POLYMERS WITH REACTIVE SITES OR CONTAINING REACTIVE MONOMERS INCLUDED IN THESE LISTS. MOST OF THE REACTIVE SITES ARE POLYMERISED DURING THE MANUFACTURING PROCESS OF E GLASS YARNS. HOWEVER A VERY SMALL REACTIVITY MAY REMAIN WHICH JUSTIFIES THE PRECAUTIONARY MEASURES LISTED IN CHAPTER 8 BELOW.

A SECOND TYPE OF INGREDIENT (SOMETIMES PRESENT IN ALMOST ALL SIZES) IS A MEMBER OF THE ORGANO-SILANE FAMILY. THESE PRODUCTS ACCOUNT FOR LESS THAN 0.05% OF THE FINAL WEIGHT OF SIZED E GLASS. THESE PRODUCTS ARE INCLUDED IN LISTS OF PRODUCTS REQUIRING "HAZARDOUS PRODUCT" LABELLING IN A PURE STATE (FOR EXAMPLE IN EUROPE R23/25 TOXIC IF SWALLOWED OR INHALED, R21 HARMFUL IN CONTACT WITH THE SKIN, R36 IRRITANT FOR THE EYES).

THE MANUFACTURER CONSIDERS THIS RISK AS NEGLIGIBLE AS, ALTHOUGH LISTED AS DANGEROUS PRODUCTS, THE CONCENTRATION IS EXTREMELY LOW AND THEY ARE POLYMERISED DURING THE PRODUCTION OF E GLASS FIBERS.

OTHER PRODUCTS CAN BE USED IN SIZES OFTEN ACTING AS LUBRICANTS. USUALLY THE CONTENT IS EXTREMELY LOW (UNDER 0.1 % OF TOTAL WEIGHT) AND AS A GENERAL RULE SUCH PRODUCTS ARE NOT ON THE DANGEROUS PRODUCT LIST OR, AS THEY HAVE REACTED, ANY POSSIBLE RISK HAS BEEN REDUCED.

IF SO REQUESTED BY MEDICAL AUTHORITIES, THE CHEMICAL ABSTRACT SERVICE (CAS) REFERENCE NUMBERS FOR THE INGREDIENTS USED FOR A GIVEN SIZE OR BINDER CAN BE COMMUNICATED BUT MUST REMAIN FOR THE CONFIDENTIAL USE OF MEDICAL AUTHORITIES.

#### 4. FIRST AID

**INHALATION:** Remove from the scene of exposure to fresh air.

**SKIN CONTACT:** Wash copiously with lukewarm soapy water without rubbing excessively.

**EYE CONTACT:** Flush in running water (for at least 10 minutes) and consult a doctor if necessary.

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#### 5. FIRE FIGHTING

IN CASE OF FIRE, GLASS FIBERS ARE NOT FLAMMABLE, ARE INCOMBUSTIBLE AND DON'T SUPPORT COMBUSTION. ONLY THE PACKAGING (PLASTIC FILM, PAPER, CARDBOARD, WOOD) AND THE SMALL AMOUNTS OF SIZE OR BINDER ARE LIKELY TO BURN. COMBUSTION GASES ARE BASICALLY CARBON DIOXIDE AND WATER VAPOUR. THERE MAY BE SMALL QUANTITIES OF CARBON MONOXIDE AND OTHER UNIDENTIFIED SUBSTANCES, WHICH MAKE IT NECESSARY TO USE PROTECTIVE DEVICES IN THE EVENT OF A MAJOR FIRE.

**RECOMMENDED EXTINGUISHING MEDIA:** Water or chemical powder.

#### 6. ACCIDENTAL SPILLAGE

**PERSONAL PROTECTION:** See Chapter 8.

**ENVIRONMENTAL PROTECTION:** In leaching tests glass fiber wastes did not emit any significant quantities of dangerous products and they can therefore be considered as **Inert Industrial Wastes**, or even **Common Industrial Wastes**, as defined by national and local regulations. All waste and scrap materials should be disposed of in accordance with applicable national, federal, state and local regulations (see paragraph 13).

**CLEANING:** Vacuum clean, sweep or shovel into containers normally used for glass fiber waste (selective collection).

#### 7. HANDLING AND STORAGE

**HANDLING (TECHNICAL MEASURES / PRECAUTIONS / SAFE HANDLING ADVICE):** It is preferable to avoid prolonged contact with the skin: wear gloves, garments with sleeves and long leggings or protective overalls, goggles and dust masks. Glass filaments and dusts must be removed from work garments with a vacuum cleaner and not blown off with compressed air jets. Wash work garments separately from other clothes.

**STORAGE:**

**TECHNICAL MEASURES:** Respect the stacking procedure recommended for each type of product.

**STORAGE CONDITIONS:** Store away from excessive humidity to prevent damage to the product and to the packing materials, which could lead to storage safety problems.

**INCOMPATIBLE MATERIAL:** Not relevant.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**TECHNICAL MEASURES:** Use every appropriate means (suction, modification of manufacturing methods to reduce fiber dust) to try to reduce the concentration of fibers likely to cause irritation.

**TEST PARAMETERS:** Test ambient atmospheres in which glassfiber is used regularly to determine levels of

- **"NON-RESPIRABLE" AND "RESPIRABLE" FILAMENTS**
- **"NON-RESPIRABLE" AND "RESPIRABLE" DUSTS.**

LEGAL REQUIREMENTS FOR RESPIRABLE AND NON-RESPIRABLE DUSTS AND FIBERS VARY FROM COUNTRY TO COUNTRY (OR DO NOT EVEN EXIST). THE TABLE BELOW (PREPARED USING THE KNOWLEDGE WE CURRENTLY POSSESS) SHOWS THE LIMITS APPLICABLE IN DIFFERENT COUNTRIES FOR TIME-WEIGHTED AVERAGE (TWA) EXPOSURE.

IT IS RECOMMENDED TO IDENTIFY THE CHEMICAL NATURE OF THE FIBERS FOUND IN WORKING ATMOSPHERES CORRECTLY, IN PARTICULAR IN INSULATION WOOLS AND MINERAL FIBERS LIKE ASBESTOS, WHICH ARE SOMETIMES PRESENT AND CAN BE CONFUSED WITH CONTINUOUS GLASS STRANDS.

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Country	Dusts	TWA (Time-Weighted Average concentration) (mg/m <sup>3</sup> for 8 hours work)	Fibers	TWA (Time-Weighted Average concentration) (Fibers/ml for 8 hours work)
Austria	fine	6	total	0.5
Belgium	total	10	No regulation	
Denmark	respirable total	5 10	total	1
Finland	total	10	total	1
France	total	10	respirable	1
Germany	respirable	3	respirable	0.25
Great Britain	respirable total	5 10	respirable	2
The Netherlands	respirable total	2 10	total	1
Ireland	respirable	5	respirable	2
Italy	respirable total	3 10	total	1
Norway	respirable total	5 10	total	1
Portugal	total	4	total	1
Spain	total	10	total	1
Sweden	respirable total	5 10	total	1
Switzerland	total	6	respirable	0.5
USA	respirable total	5 (OSHA) *15 (OSHA)*	total	1 (ACGIH)**

\* OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

\*\* ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

**PERSONAL PROTECTION EQUIPMENT:**

**RESPIRATORY PROTECTION:** During occasional operations releasing high quantities of dust, wear minimum FP 1 or preferably FP2 EEC approved dust masks. Type 3M 8710 or 3M 9900 respirators approved according to American National Institute For Occupational Safety and Health (NIOSH) directives can be used, for example.

**PROTECTION OF HANDS AND OTHER EXPOSED PARTS OF THE BODY:**

Gloves for the hands, long-sleeved garments and long leggings to prevent irritation.  
People with delicate skin should apply barrier cream to exposed skin areas.

**EYE PROTECTION:** Safety goggles (or masks) or safety glasses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Solid.

**FORM:** Continuous or chopped or mats offiber made up of continuous, parallel filaments glued together.

**COLOUR:** White or yellowish white.

**ODOUR:** None.

**PH:** Not applicable.

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#### SPECIFIC TEMPERATURE AT WHICH CHANGES IN PHYSICAL STATE OCCUR:

**SOFTENING POINT:** Littleton point (defined as the temperature for which the viscosity of glass is  $10^{7.65}$  Poises): approximately 850°C.

**MELTING POINT:** Not applicable. Glass does not melt, but the viscosity decreases by elevation of temperature and is  $10^3$  for E glass in a range of temperature between 1150°C and 1250°C (fiberizing temperature).

**DECOMPOSITION TEMPERATURE:** Only size products start to decompose at 200°C.

**FLASH POINT:** None.

**EXPLOSIVE PROPERTIES:** None.

**DENSITY (MOLTEN MASS):** 2.6 g/cm<sup>3</sup>.

**SOLUBILITY:** very low solubility in water. Sizes can be partially (and even totally) dissolved in most organic solvents.

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable in normal use and storage conditions, and in normally foreseeable usage conditions.

**HAZARDOUS REACTIONS:** No chemical hazardous reaction is foreseeable.

**HAZARDOUS DECOMPOSITION PRODUCTS:** In continuous combustion conditions, in addition to water vapour and CO<sub>2</sub>, small quantities of CO and NO<sub>x</sub> may be released from the combustion of the size. Other products may be released in limited quantities, depending on combustion conditions. This is why it is recommended to use high-temperature gas masks, when fighting intense fires (see paragraph 5).

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Not relevant.

**LOCALISED EFFECTS: POSSIBLE TEMPORARY IRRITATIONS:** This irritation is of a purely mechanical and temporary nature. It disappears when exposure is ended. It can affect the skin, the eyes and the upper respiratory tracts. In Europe, mechanical irritation is not considered to be a health hazard within the terms of European directives 67 /548/EEC for hazardous products. This is confirmed by the fact that EC Directive 97 /69/EC for mineral fibers does not stipulate the need to use an Xi (irritant) label nor a classification for continuous strand fibers (which in this Directive only apply to insulation glass wools in some circumstances).

**SENSITISATION:** Some allergies to continuous strand glass fibers have been declared. All sizing mixtures are tested for their wet state sensitising properties when developed by JSC "Valniera Glassfiber" and are only adopted if they have no or a very low sensitisation level. In case of the allergy is confirmed, remove the person from the scene of the exposure.

**LONG TERM TOXICITY: CARCINOGENIC RISKS. Continuous strand glass fibers are not respirable** (i.e. do not penetrate the lung alveoli). This is because fibers are over 3 µm in diameter. Even after handling, the length of the finest dusts is also well over 5 µm and the length/diameter ratio is greater than 3:1. These are the values determined by the World Health Organisation (WHO) for the definition of respirable fibers.

**REGULATORY SITUATION:** None of the following official organisations have attributed any risks of cancer during the production and use of continuous filament glass fibers: During its congress in June 1987, World Health Organisation (WHO) through the IARC (International Agency of Research on Cancer) examined all laboratory studies using animals and epidemiological studies carried out on glass yarns for textiles. The conclusion was that **glass filaments are not classified as to their carcinogenicity**. They belong to the **Group 3 of IARC**. This classification has been confirmed by the IARC Working Group during his meeting of October 2001 and in the latest issue of the IARC monographs on the evaluation of carcinogenic risks to humans, volume 81 on "Man-made vitreous fibers", published in 2002.

**THE INTERNATIONAL LABOUR OFFICE (ILO) AND THE CSIP (CHEMICAL SAFETY INTERNATIONAL PROGRAM) CAME TO THE SAME CONCLUSIONS ON A CONGRESS HELD IN 1987.**

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EUROPEAN COMMISSION DIRECTIVE 97/69/EC DATED 5112/97, THE 23RD AMENDMENT TO DIRECTIVE 67 /548/EEC WHICH CONCERNS CLASSIFICATION, PACKING AND LABELLING OF HAZARDOUS SUBSTANCES DID NOT THINK IT NECESSARY TO INCLUDE GLASS FIBERS AS HAVING CARCINOGENIC RISKS.

MOST EUROPEAN UNION MEMBER NATIONS HAVE TRANSPOSED THIS DIRECTIVE INTO THEIR NATIONAL LAW AND ADOPTED THE SAME CONCLUSIONS:

Country	Reference of transposition documents of Directive 97 /68/EC
Austria	Chemikalienverordnung 1999
Belgium	French implementation by „Koninklijk Besluit“ of 15/1/99 published on 24/2/99
Denmark	BEK N°11/1999.01.09 (Ministry of Environment)
Finland	Landskapforordning 23/04/98 and 24/02/98 and List of Hazardous Chemicals 16.12.98
France	Arrete ministerial du 28/08/98, Circulaire DRT 99/10 du 13/8/99
Germany	4 m adaptation of the German Gefahrstoffverordnung 1999
Great Britain	The chemicals (Hazard Information and packaging for supply) (amendment) Regulations 1998. 6/1/99
Greece	Not available
Netherlands	Wijzigingsbesluit (Stb. 217,2001)
Ireland	Statuary Instruments S.I. N°513 of 1998 European Communities (Classification, Packaging, Labelling and Notification of Dangerous Substances) Amendment N°2 Regulation 1998. Effect on December 22nd 1998.
Italy	Decreto ministeriale del 01109/98, Gazzetta Ufficiale-Serie generale del 19/ 11 /98 n271 pag. 16, decreto del 2 fe 2000, circolare n°4 del 15/03/1999
Luxembourg	Reglement Grand Ducal du 31/10/98
Portugal	Not available
Spain	Bulletin Oficial del Estada (11/09/98)
Sweden	KIFS 1998:7

OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION) AND NTP (U.S. NATIONAL TOXICOLOGY PROGRAM), OFFICIAL AMERICAN ORGANIZATIONS, HAVE NOT LISTED GLASS YARNS FOR TEXTILES AS HAZARDOUS SUBSTANCES AND THE ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS) HAS CLASSIFIED THEM AS A4 (NOT CLASSIFIED AS CARCINOGENIC FOR MAN). THEY ARE NOT CONCERNED BY THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR).

NO NEW STUDIES HAVE LED THE ORGANIZATIONS TO REVISE THEIR POSITION ON THIS SUBJECT.

MOST LAWS AND STUDIES CONCERNING RESPIRABLE FIBERS DO NOT APPLY TO CONTINUOUS FILAMENTS GLASS YARNS FOR TEXTILES. FOR EXAMPLE,

- THE CONCENTRATION OF RESPIRABLE FIBERS ON THE ATMOSPHERE (1.5 FIBERS/CM3) FIXED BY FRENCH CIRCULAR 95/04 DATED 12/0111995 (IN ADDITION TO THAT DATED 19/0711982) FROM THE FRENCH MINISTRY FOR WORK DOES NOT APPLY TO GLASS YARNS.
- CANCER RISK INDEX KI DEFINED IN GERMAN TRGS 905 DOES NOT APPLY TO NONRESPIRABLE CONTINUOUS FILAMENT GLASS FIBERS.

#### EPIDEMIOLOGICAL AND LABORATORY STUDIES:

NO EPIDEMIOLOGICAL AND LABORATORY STUDIES CARRIED OUT UP UNTIL NOW DEMONSTRATE IN A SCIENTIFICALLY SIGNIFICANT WAY ANY RISK OF CANCER RELATED TO REINFORCEMENT FIBERS.

SEVERAL RECENT EPIDEMIOLOGICAL STUDIES (CHIAZZE 1997, BO FF ETA 1997) CONFIRMED THE ABSENCE OF EXCESSIVE MORTALITY DUE TO CANCER IN PEOPLE WORKING IN GLASSFIBER MANUFACTURING FACILITIES VS. CONTROL POPULATIONS.

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A RECENT STUDY PUBLISHED IN 2000 BY THE IOM (INSTITUTE OF OCCUPATIONAL MEDICINE IN EDINBURGH) ADDRESSED THE INHALATION OF E-GLASS MICROFIBERS BY ANIMALS AT CONCENTRATIONS AT LEAST 1000 TIMES HIGHER THAN THOSE ENCOUNTERED WHEN USING GLASS FIBERS DEMONSTRATED CARCINOGENIC RISK. THESE MICROFIBERS ARE NOT PART OF THE PRODUCT RANGE SOLD BY "GLT PRODUCTS" AND THESE FINDINGS ARE NOT LIKELY TO CHANGE CURRENT OPINIONS FOR THE GLASS YARNS DESCRIBED IN THIS SDS.

**HANDLING GLASS FIBERS:** When glass fibers are chopped, milled or sanded they are cut perpendicular to strand length and no smaller diameters filaments are generated. Conversely, significant quantities of dust can be generated, which is why it is recommended to use personal protection. In dusts, also present in some products (chopped strands, milled fibers), some studies have shown very low quantities of particles with fibrous aspects ( $l/d > 3$ ), short (but nevertheless longer than 5  $\mu\text{m}$ ) and with an apparent diameter of under 3  $\mu\text{m}$ . Quantities measured in work atmospheres are 50 to 100 times lower than all the limits fixed for respirable fibers, but when there is a high risk of dust generation it is strongly recommended to wear masks.

**MUTAGENIC RISKS, TERATOGENIC RISKS, RISKS FOR REPRODUCTION:** continuous strand glass yarns have no known risks.

## 12. ECOTOXICOLOGICAL INFORMATION

E GLASS IS NOT BIODEGRADABLE. SIZES OR BINDERS ARE ORGANIC MATERIALS SLOWLY AND ONLY PARTIAL DISSOLVED BY NATURAL AGENTS LIKE WATER. AS THE CONCENTRATION OF THE INGREDIENTS IN THE MIXTURE AND INGREDIENT SOLUBILITY ARE LOW AND AS THEY HAVE NOT BEEN CLASSIFIED AS HAZARDOUS, GLASS YARNS ARE CONSIDERED TO HAVE NO ADVERSE ECO-TOXICOLOGICAL EFFECTS.

GLASS FIBERS AND SIZING PRODUCTS WERE NOT LISTED AS PRODUCTS LIKELY TO DESTROY THE OZONE LAYER BY THE 1987 MONTREAL PROTOCOL (CLASS 1 OR CLASS 2). THESE LISTS ARE INCLUDED IN EC REGULATION N° 3093/94 AND IN SECTION VI OF AMENDMENTS TO THE "CLEAN AIR ACT" BY THE AMERICAN ENVIRONMENTAL AGENCY (EPA).

GLASS FIBER SIZES DO NOT CONTAIN PCB (POLYCHLORINATED BIPHENYL) OR/AND OTHER POLYAROMATIC PRODUCTS OF THE SAME TYPE.

## 13. WASTE DISPOSAL

DEPENDING ON LOCAL REGULATIONS, GLASS FIBER WASTES CAN EITHER BE CONSIDERED AS INERT WASTE OR AS COMMON INDUSTRIAL WASTE. AS SUCH THEY CAN BE BURIED IN LANDFILLS APPROVED FOR THESE CATEGORIES.

GLASS FIBERS WASTE CANNOT BE DESTROYED BY INCINERATION AND CAN DAMAGE INCINERATORS BY THE FORMATION OF A VITRIFIED MASS.

CLEAN CARDBOARD, WOOD, PLASTIC (FILM OR BAGS) AND PACKAGING CAN BE ELIMINATED IN UNITS SPECIFIC TO THESE PRODUCTS (I.E. FOR RECYCLING OR USE AS FUELS) .

## 14. TRANSPORT

**INTERNATIONAL REGULATIONS:** Glass yarns are not considered as hazardous goods by transport regulations. They are part of one of the hazardous classes listed in international regulations.

THEY DO NOT NEED SPECIAL PROCEDURES UNDER ANY REGULATIONS. FOR INTERNATIONAL TRANSPORT IN EUROPE BY LAND (NEW RESTRUCTURED VERSION OF ADR APPLICABLE AS FROM JULY 1ST 2001 , RID, ADNR), SEA (OMI) OR AIR (OAC/IATA), OR TO THE USA (DOT) OR CANADA (TDG), THEY ARE NOT SHOWN AS A RISK CATEGORY NOR QUALIFIED BY A UNO NUMBER OR A PACKING GROUP.

## 15. REGULATORY INFORMATION

CONTINUOUS FILAMENTS GLASS YARNS DO NOT REQUIRE HAZARDOUS PRODUCT LABELLING (SEE CHAPTER 11 ).

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GENERAL HYGIENE AND WORK SAFETY REGULATIONS APPLY (SEE CHAPTER 8).

CONTINUOUS FILAMENT GLASS YARNS ARE ARTICLES AND FOR THIS REASON THEY HAVE NOT TO BE LISTED IN MOST OF THE COUNTRIES, FOR INSTANCE IN THE LIST EINECS IN EUROPE, ELIN CS, TSCA FOR THE USA, DSL AND NDSL FOR CANADA, ...

#### 16. OTHER INFORMATION

**FOOD ENVIRONMENTS:** Appendix III of European Directive 90/128/CEE and its most recent amendment 96/11/CE dated 5/03/96 define the compatibility of pure glass fibers with food environments as additives to plastics. However the fact that sizing products should be shown on the current list of European Commission approved products, the BGVV LII list in Germany of the Food and Drugs Administration lists (FDA) in the USA means that a case by case study must be made if a "fiberglass" range product is used to reinforce a plastic material in contact with food.

**CONTACT WITH POTABLE WATER:** As differ form country to country, every question must be examined individually.

**THIS SAFETY DATA SHEET IS IN ADDITION TO THE PRODUCT SPECIFICATION FILE AND OTHER TECHNICAL DOCUMENTS ISSUED BY GLT PRODUCTS, BUT DOES NOT REPLACE THEM.**

**THE INFORMATION GIVEN BY THIS DOCUMENT IS BASED ON THE BEST KNOWLEDGE AT THE SHOWN. IT IS GIVEN IN GOOD FAITH. FURTHERMORE, USER ATTENTION IS DRAWN TO THE POSSIBLE RISKS RUN WHEN THE PRODUCT IS USED FOR ANY PURPOSE OTHER THAN THE ONE FOR WHICH IT WAS DESIGNED.**

**THIS SDS DOES NOT EXEMPT USERS FROM KNOWING AND APPLYING THE RULES REGULATING THEIR ACTIVITIES. USERS ASSUME FULL RESPONSIBILITY FOR APPLYING THE APPROPRIATE SAFETY MEASURES WHEN THE PRODUCT IS USED.**