1. Identification of the Substance / Mixture and of the Company / Undertaking:

1.1.	*Product identifier:*	**Warmcel**
1.2.	*Relevant identified uses of the substance or mixture and uses advises against:*	Thermal and acoustic insulation
1.3.	*Details of the suppliers of the safety data sheet:*	
	Trade Name:	CIUR a.s., Malé náměstí 142/3, CZ-11 21 Prague 1
	Manufacturing plant:	Pražská 1012, CZ-250 01 Brandýs nad Labem
	Contact:	Mr. Mojmír Urbánek
	Telephone:	+ 420 326 901 411, +420 326 901 415
1.4.	*Emergency telephone number:*	Všeobecná fakultní nemocnice v Praze Toxikologické informační středisko Na Bojišti 1, CZ-128 08 Prague +420 224 919 293, +420 224 915 402, +420 224 964 630

2. Hazard Identification:

2.1.	*Classification of the substance or mixture:*	Not Applicable – Cellulose Insulation is defined as an Article (size and shape is more important in its function as a thermal insulating material than the chemical composition)
2.2.	*Label elements:*	
2.3.	*Other hazards:*	not applicable

3. Composition / Information on Ingredients:

3.1.	*Substances:*	cellulose with addition of magnesium sulfate and boric acid
	Chemical name:	Magnesium sulfate
	Chemical symbol:	MgS04 x 7H2O
	% content:	5 - 15 %
	Number CAS:	010034-99-8
	Number ES (EINECS):	not found for hydrated form
	Registration Number REACH:	not subject of registration
	Index Number:	unassigned
	Hazard symbol:	not applicable
	R - sentences:	not applicable
	S - sentences:	not applicable
	Chemical name:	Boric acid
	Chemical symbol:	H3BO3
	% content:	<5.5%
	Number CAS:	10043 - 35 - 3
	Number ES (EINECS)	233 - 139 - 2
	Registration Number REACH:	01-2119486683-25-0000 unassigned
	Index Number:	None (<5.5%)
	Hazard symbol:	None (<5.5%)
	R - sentences:	None
	S – sentences:	

	3.2 *Mixtures*	not applicable

4. First Aid Measures:

4.1.	*Description of first aid measures:*	In case of health problems due to excessive exposure to product dust;
4.1.1.	If excessive amounts of the product are inhaled:	Move the affected person to the fresh air, wash the face properly with water, rinse the mouth (or nose) with clear water, rest, do not smoke, if respiratory Problems occur then seek medical assistance.
	If dust from the product is in contact with the skin:	Generally no hazard. Shake off the dust from clothing or vacuum, wash the skin with plenty of tepid water, if possible or with Soap or other suitable detergent.
	If dust from the product comes into contact with the eyes:	Rinse or flush with running clean tepid water
	If dust from the product is swallowed:	Rinse the mouth with water if any problems, seek medical help.
4.1.2.	Other data:	No specific safety equipment for person providing first aid is required.
4.2.	*Most important symptoms and effects, both acute and delayed:*	not applicable
4.3.	*Indication of any immediate medical attention and special treatment needed:*	not applicable

5. Firefighting Measures:

5.1.	*Extinguishing media:*	Use extinguishing means with respect to the environment, e.g. Carbon dioxide, dry powder, foam or water extinguisher, water mist
5.2.	*Special hazards arising from the substance or mixture:*	In case of fire product may form organic crack products and carbon mono- and dioxide.
5.3.	*Advice for firefighters:*	Extinguishing media to avoid: water hose stream. In case of fire wear positive pressure self-contained breathing apparatus, use appropriate protection of respiratory system (insulating means), or whole-body protection. The product contains ingredients, which in case of fire should prolong its persistence.

6. Accidental Release Measures:

6.1.	*Personal precautions, protective equipment and emergency procedures:*	Minimize dust! Use personal protective means, follow the instructions of chapters 7 and 8, do not inhale the dust, avoid excessive contact with skin and eyes. Avoid further dust distribution, for example by wetting the material.
6.2.	*Environmental precautions:*	Prevent wind dispersal of the loose fibrous dust. Keep away from drainage. Take up by mechanical means.
6.3.	*Methods and material for containment and cleaning up:*	Sweep the spilled dust from the product up carefully or preferably remove using a vacuum cleaner with a suitable filter. Pick up large pieces. Then put this material into labelled containers and dispose - see point No 13. If sweeping up, spray the material first; never use compressed air for cleaning.
6.4.	*Reference to other sections:*	not applicable

7. Handling and Storage:

7.1.	*Precautions for safe handling:*	Minimize dust at work, minimize contact with skin and eyes, do not inhale the dust, at work use personal Protective equipment listed in point No 8, wash your hands after handling. Keep bags tightly closed and dry. Take precautionary measures against static discharges.
7.2.	*Conditions for safe storage, including any incompatibilities:*	Store in original, undamaged packaging, in dry, sheltered and clean warehousing, protect from humidity, store away from explosive and oxidation substances, keep away from sources of ignition, do not smoke, do not directly expose to extreme climatic effects.
7.3.	*Specific end use(s):*	not applicable

8. Exposure Controls / Personal Protection:

8.1.	*Control parameters:*	Provide sufficient ventilation.
8.2.	*Exposure controls:*	
8.2.1.	Appropriate engineering controls:	Cellulose TRGS900: 6 mg/m3 (general dust limiting value) - for monitoring exposure limits of ingredients of a preparation are only conditionally suitable.

8.2.2.	Individual protection measures, such as personal protective equipment:	Common hygienic precautions, do not eat, drink and smoke during work, wash the hands with warm water and soap after work, eventually apply a suitable reparation means, it is necessary to keep the protective equipment in working order, damaged (for example gloves) or dysfunctional PPE must be immediately replaced.
a/	Eye / face protection:	Protective dustproof glasses.
b/	Skin protection: i/ hand protection: ii/ other:	 Protective gloves. Suitable protective clothing, firmly fastened to the body at the ends (sleeves, trouser legs, waist) and closed shoes.
c/	Respiratory protection:	Recommended if ventilation is not sufficient.
d/	Thermal hazards:	not applicable

9. Physical and Chemical Properties:

9.1. *Information on basic physical and chemical properties:*

a/	Appearance:	see item 16
b/	Odour:	odorless
c/	Odour threshold:	odorless
d/	pH	see item 16
e/	Melting point / freezing point:	not applicable
f/	Initial boiling point and boiling range:	not applicable
g/	Flash point:	above 400 °C
h/	Evaporation rate:	not applicable
i/	Flammability (solid, gas):	C to B, depending on the application method (ČSN EN 13501-1) C-s1-d0 – dry material, free unsettled surface Q = 183.0 to 42.2.
j/	Upper / lower flammability or explosive limits:	at Ei = 9,0 KJ is not explosive at Ei = 34,5 KJ is not explosive it is not excitable by electric capacitive spark to the energy of 40J. notice: when use in explosive environments it is necessary to prevent the dust deposits caused at the handling with product. ignition of settled dust t^u_{min} = 290 °C ignition of turbid dust t^r_{min} = 510 °C
k/	Vapour pressure:	not applicable
l/	Vapour density:	see item 16
m/	Relative density:	not applicable

n/	Solubility:	see item 16
o/	Partition coefficient: n-octanol/water:	not applicable
p/	Auto-ignition temperature:	not applicable
q/	Decomposition temperature:	see item 10
r/	Viscosity:	not applicable
s/	Explosive properties:	not applicable
t/	Oxidizing properties:	not applicable

9.2. *Other information:* not applicable

10. Stability and Reactivity:

10.1. *Reactivity:* When stored according to item 7 of this Safety data sheet, the product is stable and spontaneous decomposition does not happen.

10.2. *Chemical stability:* When stored according to item 7 of this Safety data sheet, the product is stable and spontaneous decomposition does not happen.

10.3. *Possibility of hazardous reactions:* Product decomposes at temperatures higher than 200 °C releasing harmful gasses. May form explosive dust-air mixture.

10.4. *Conditions to avoid:* see item 7

10.5. *Incompatible materials:* Concentrated acids and alkalis.

10.6. *Hazardous decomposition products:* not known

11. Toxicological Information:

11.1. *Information on toxicological effects:* Preparation components have not narcotic effects but the dust of preparation can irritate, actual effect depends on the concentration and the exposed time in contaminated area and personal sensitivity.

a/	Acute toxicity:	LD_{50} (oral, rat database RTECS 2004) 2500 mg/kg
b/	Skin corrosion / irritation:	None.
c/	Serious eye damage / irritation:	None.
d/	Respiratory or skin sensitization:	None.
e/	Germ cell mutagenicity:	Not established for this product.
f/	Carcinogenicity:	Not established for this product.
g/	Reproductive toxicity:	Not established for this product,
h/	STOT-single exposure:	Not established for this product.
i/	STOT-repeated exposure:	Not established for this product.
j/	Aspiration hazard:	Dust from this product is irritant.

12. Ecological Information:

12.1. *Toxicity:* not tested

12.2. *Persistence and degradability:* not tested

12.3. *Bio accumulative potential:* not tested

12.4. *Mobility in soil:* not tested

12.5. *Results of PET and vPvB assessment:* not tested

12.6. *Other adverse effects:*

13. Disposal Considerations:

13.1. *Waste treatment methods:*

Please comply with the national or regional authorities.
Recommended method of disposal is combustion or composting.
Contaminated packaging is to be totally emptied, handling is the same as the preparation itself, empty PE packaging can be recycled.
Safe handling: please refer to items 7 and 15.

14. Transport Information:

The preparation is not dangerous goods according to the international and national transport regulations.
Transport the preparation in common sheltered, clean means of transport, protected against weather effects and direct sunshine.

14.1.	*UN number:*	not applicable
14.2.	*UN proper shipping name:*	not applicable
14.3.	*Transport hazard class:*	not applicable
14.4.	*Packing group:*	not applicable
14.5.	*Environmental hazards:*	not applicable
14.6.	*Special precautions for users:*	not applicable
14.7.	*Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:*	not applicable

15. Regulatory Information:

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

For the distribution or handling please comply with the national (regional) regulations or any other national measures that may be relevant.

15.2. *Chemical safety assessment:* not tested

16. Other Information:

For additional information kindly refer to the attached Specification List.
Safety data sheet includes data necessary to ensure the safety and health protection at work and environmental protection.
Stated data corresponds to the actual state of knowledge and experience and are according to the valid legal regulations.
It cannot be considered as a warranty of fitness and usability for any concrete application.

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