



Revised Version 2 : 16.02.2019

SAFETY DATA SHEET ACCORDING TO 830 / 2015 EU REGULATION

SECTION 1

1.1. MATERIAL IDENTIFICATION

PRODUCT NAME: HiroVest® CF 30, Hiro PressVEST® - Phosphate bonded investment material
RELEVANT IDENTIFIED USES OF THE MIXTURE:

Refractory die material-Manufacturing of inlays, crowns, bridges, prosthesis in dental laboratory

1.2. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

MANUFACTURER:

S.C. Mutsumi Chemical Industries SRL

3 , Nordului Street, Roman, Neamt,
611047, Romania

1.3. EMERGENCY PHONE NUMBER:

+40- 767-071330 This phone number is serviced during office hours (Monday to Friday between 08.30 am and 4.30 pm).

**SECTION 2
HEALTH HAZARD INFORMATION**

Classification of the mixture

Classification according to Regulation (EC) No 1272/2008

STOT RE 1 H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the lung through prolonged or repeated exposure.

Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard Pictograms:



GHS08

Signal word:

Danger

**Hazard statements:**

H372i Causes damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements:

P260 Do not breathe dust.
 P314 Get medical attention if you feel unwell.
 P501 Dispose of content/container to a facility in accordance with local and national regulations.

Other hazards:

Depending on the handling and use (eg. Grinding, drying) formation of airborne respirable crystalline silica is possible.

Prolonged and massive inhalation of respirable crystalline silica can cause silicosis disease. Main symptoms of silicosis are: cough and breathing problems, shortness of breath.

In case of irregular exposure to respirable crystalline silica, appropriate safety and surveillance measures should exist. The handling of the product should be carried out with special care, in order to avoid dust formation.

PBT assessment: No data available.

vPvB assessment: No data available.

SECTION 3**COMPOSITION & INFORMATION ON DANGEROUS INGREDIENTS****Chemical characterization: Mixtures**

-Description: Only substances required to be mentioned according to EU Regulation No.830/2015 are listed. Information on the other substances that may be present can be obtained upon request.

3.1	Substances	Not applicable
3.2	Mixtures	
	Dangerous components:	
	CAS: 14808-60-7	Quartz (SiO ₂) 10-50 %
	EINECS: 238-878-4	STOT RE 1, H372
	CAS: 14464-46-1	Cristobalite 10-50 %
	EINECS: 238-455-4	STOT RE 1, H372
	CAS: 1309-48-4	Magnesium oxide 1 - 10 %
	EINECS: 215-171-9	Substance with an occupational exposure limit

SECTION 4**PHYSICAL AND CHEMICAL DATA**

APPEARANCE: Powder

APPEARANCE AND ODOR: Fine powder, white, odourless.

MELTING POINT: Not applicable

BOILING POINT: Not applicable

FLASH POINT: Not applicable

AUTO-IGNITION TEMPERATURE: the product is not self-igniting.

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE.



VISCOSITY: Not applicable.

EXPLOSIVE PROPERTIES: Product is not explosive.

OTHER INFORMATION: No additional information available.

SECTION 5 STABILITY AND REACTIVITY

FLASH POINT (METHOD USED):	None
EXTINGUISHING MEDIA:	Not Combustible
SPECIAL FIRE-FIGHTING PRECAUTIONS:	None
FIRE AND EXPLOSION HAZARDS:	None
INCOMPATIBLE MATERIALS:	None known

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reactions known.

STABILITY: Chemically Stable under use and storage conditions as Recommended in Handling and Storage section.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal use.

CONDITIONS TO AVOID:	No informations available.
INCOMPATIBLE MATERIALS:	No informations available.

SECTION 6 FIRST AID MEASURES

6.1 DESCRIPTION OF FIRST AID MEASURES:

GENERAL INFORMATION: Never give anything by mouth to an unconscious person. If unconscious, Seek medical advice.

AFTER INHALATION: Remove to fresh air. If required, provide artificial respiration. Keep patient warm and consult a physician.

AFTER SKIN CONTACT: Wash with soap and water. If symptoms persist, consult a doctor.

AFTER EYE CONTACT: Flush with water for 15 minutes, with plenty of water. If irritation continues, consult a physician.

AFTER SWALLOWING: Rinse the mouth and drink plenty of water. Consult a physician.

6.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, ACUTE AND DELAYED: Causes damage to organs through prolonged or repeated exposure.

6.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT NEEDED: Treat symptomatically.

SECTION 7 FIREFIGHTING MEASURES



SUITABLE EXTINGUISHING AGENTS: CO₂, extinguishing powder or water spray. Fight larger fires with water spray and alcohol resistant foam. Use fire fighting measures that suit the environment.

UNSUITABLE EXTINGUISHING AGENTS: Water with full jet.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE MIXTURE: Formation of toxic gases during heating or in case of fire is possible.

ADVICE FOR FIREFIGHTERS:

Protective equipment: Wear self-contained respiratory protective device.

Additional information: Dispose of fire debris and contaminated fighting water in accordance with official regulations.

SECTION 8

ACCIDENTAL RELEASE AND DISPOSAL MEASURES

Personal precautions, protective equipment and emergency procedures:

Remove persons from danger area. Avoid formation of dust. Wear protective clothing.

Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform authorities in case of seepage into water course or sewage system. Do not allow to penetrate the ground. In case of seepage into the ground inform the responsible authorities.

Waste treatment methods- Recommendation:

Disposal must be made according to official regulations.

Waste treatment methods

Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains. Do not dispose of with domestic waste.

European waste catalogue	
18 00	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06*	chemicals consisting of or containing dangerous substances

Waste code: The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

Uncleaned packaging- Recommendation:



Empty contaminated packaging thoroughly. It may be recycled after proper cleaning.

SECTION 9 TRANSPORT INFORMATION

No special transport requirements, non-dangerous goods

UN number:

ADR, IMDG, IATA: Not regulated for transport

UN proper shipping name

ADR, IMDG, IATA: Not applicable

Transport hazard class(es)

ADR, IMDG, IATA: Not applicable

Packing group:

ADR, IMDG, IATA: Not applicable

Environmental hazards:

No

Marine pollutant:

No

Other information:

No supplementary information available

Special precautions for user:

Not applicable.

Transport in bulk according to Annex II
of

Not applicable.

MARPOL and the IBC Code:

SECTION 10 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Prevent formation of dust.

PRECAUTIONS FOR FIRE AND EXPLOSION PROTECTION:

No special measures required.

REQUIREMENTS FOR STOREROOMS:

No special requirements.

FURTHER INFORMATIONS ABOUT STORAGE CONDITIONS:

Store in cool, dry conditions, in well sealed conditions.

STORAGE CLASS:

In accordance with VCI: 13 (non-combustible solid matter).

SECTION 11 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Provide general ventilation and local exhaust ventilation to meet TLV requirements. In case of dust formation, use adequate ventilation. Wear suitable respiratory equipment in case of insufficient ventilation: Breathing apparatus with filter P1. Recommended filter for short-term use: P2 (FFP 2 EN 149:2001) / P3 (FFP 3 EN 149:2001).



PROTECTIVE EQUIPMENT: Gloves or protective clothing are usually, but not necessarily desirable in specific work situations. Eye protection (goggles) may be needed to avoid particulate irritation of the eye. Body protection- protective work clothing.

Control parameters

Components with critical values that require monitoring at the workplace:	
14808-60-7 Silica (respirable crystalline)	
WEL (Long-term value)	0.1 mg/m ³
1309-48-4 Magnesium oxide (as Mg)	
WEL (Long-term value)	10 mg/m ³ inhalable dust 4 mg/m ³ fume and respirable dust

SECTION 12 TOXICOLOGICAL DATA

Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met
Carcinogenicity:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure):	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard:	Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms:	Based on available data, the classification criteria are not met

SECTION 13



ECOLOGICAL DATA

AQUATIC TOXICITY: No further relevant information available.
Do not allow undiluted product or large quantities to reach ground water or sewage system.

BIOACCUMULATIVE POTENTIAL: No information available.

MOBILITY IN SOIL: No information available.

OTHER ADVERSE EFFECT: No further relevant information available.

SECTION 14 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
EU-Regulations

This mixture is classified as not hazardous according to regulation (EC) 1272/2008.

National regulations

No additional information available

Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 15 OTHER INFORMATION

This Material Safety Data Sheet contains confidential, proprietary information, based on our present knowledge. Information contained herein is provided in good faith as valid and authoritative. However, no warranties, either expressed or implied, can be made concerning the accuracy or completeness of the information and shall not establish a legally valid contractual relationship.

Relevant phrases

H372: Causes damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

STOT RE 1: Specific target organ toxicity - repeated exposure, category 1

