



SAFETY DATASHEET

SDS- EUEN-2024

Date Updated: 09th.August.2024

Version : 1.0/EN.

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878, Article 31

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product form : Mixture
Product Name : CRY Z 200 Cryogenic Laminated Silica Aerogel Blanket (3mm-20mm)
Brand : I CORSYS CRY Z 200 AEROGEL BLANKET
Synonyms : Aerogel blanket; Aerogel materials

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

Application of the substances/mixture: High performance insulation material

Uses advised against: None specified.

1.3. Details of the supplier of the safety data sheet

Manufactured by:

I CoreSystems GmbH

Wissenschaftspark Gelsenkirchen

Munscheidstr. 14

45886 Gelsenkirchen / Germany

Tel: +49 209 9843 9999

Web: icorsys.com

Further information obtainable from: contact@icorsys.com

E-mail of competent person responsible for SDS: pyigitoglu@gmail.com

1.4. Emergency telephone number

European Emergency No: 112

Emergency telephone at the company: +49 (0) 209 9843 9999 (Monday to Friday 7 am to 5 pm)

SECTION 2: HAZARDS IDENTIFICATION

1.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 Of the European Parliament and of the Council Of 16 December 2008 on Classification, Labelling and Packaging of Substances and Mixtures, Amending and Repealing Directives 67/548/EEC And 1999/45/EC, and Amending Regulation (EC) No 1907/2006.

1.2. Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 Of the European Parliament and of the Council Of 16 December 2008 on Classification, Labelling and Packaging of Substances and Mixtures, Amending and Repealing Directives 67/548/EEC And 1999/45/EC, And Amending Regulation (EC) No 1907/2006.

1.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Hazardous components: No hazardous components in this proprietary formulation.

Full text of H-statements: see section 16

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

After inhalation: Remove person to fresh air.

After skin contact: Wash with soap and water. Observe good occupational hygiene for work. If skin irritation or rash occurs, seek medical attention.

After eye contact: Do not rub eyes. Dust particles may cause abrasive injury. Flush eyes with water for several minutes.

After swallowing: Need for First Aid is not anticipated.

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

Dust may cause mechanical eye and skin irritation. Inhalation of dust may cause irritation of the respiratory system. Silica aerogels are hydrophobic (repel water) and may cause temporary drying and irritation of the skin, eyes, and mucous membranes.

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

Immediate medical attention is generally not required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions.

5.2. Special hazards arising from the substance or mixture

Product is a super-insulator. Rolls of material will retain heat within internal layers that may be a source of ignition after the fire is extinguished. Keep hot material away from combustible materials and cool hot insulation with water.

5.3. Advice for firefighters

Protective equipment: Normal firefighting procedures should be followed to avoid inhalation of smoke and gases produced by a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

Ensure adequate ventilation.

Avoid formation of dust.

6.2. Environmental precautions

Report spills as required under national and local regulations.

6.3. Methods and material for containment and cleaning up

Collect using methods that avoid the generation of dust (pick up or vacuum dust) and place in appropriate container for disposal.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Prevent formation of dust.

Aerogel blankets may generate dust when handled. Workplace exposures to all dusts should be controlled with standard industrial hygiene practices. Local exhaust should be the primary dust control method. Dry vacuuming is the preferred method for cleaning up dust. Because aerogel dust is hydrophobic, water is not an effective dust control agent. Unpack material in the work area. This will help to minimize the area where dust exposure may occur. Trimmed material should be promptly packed in disposal bags.

Trims and offcuts may be reused in secondary applications. Scrap material should be packed for disposal. Avoid dust contact with eyes, skin and clothing and avoid breathing dust. Wash hands with soap and water after handling.

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7.2. Information about protection against explosions and fires

No special measures required.

7.3. Conditions for safe storage, including any incompatibilities

Information about storage in one common storage facility: Keep tightly closed in the packaging until ready for use. Store in a dry place.

7.4. Further information about storage conditions

Dispose of contents/container in accordance with local/regional/national/international regulations.

7.5. Specific end use(s)

No relevant information available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems

Technical measures and the application of adequate working methods take priority over the use of personal protection equipment. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.1. Control parameters

Components with limit values that require monitoring at the workplace:

CAS: 1332-58-7 kaolin

UK Wel : 2 mg/m³ / LTEL, TWA, respirable fraction

US OSHA PEL(TWA) :15 mg/m³ / Total dust 5 mg/m³ , respirable fraction

CAS: 1309-48-4 magnesium oxide

UK WEL :10 mg/m³ , total inhalable fraction

4mg/m³ respirable fraction

(as Mg) *inhalable dust **fume and respirable dust

8.2. Exposure controls

Personal protective equipment

General protective and hygienic measures: Observe good hygiene practices.



Breathing equipment: Select fit and use in accordance with local and national regulations.

Protection of hands

Material of gloves: Impervious gloves recommended for handling product.

Penetration time of glove material: Not Applicable.

Eye protection: Appr

Body protection: Appropriate work clothing is recommended.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Softnon-woven fabric blanket

Color: White

Odor: Odorless.

Odor threshold: Not determined.

pH-value: Not applicable.



Change in condition

Melting point/Melting range:	No data available.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not Flammable.
Ignition temperature:	No data available.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Not applicable.
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density:	Not determined.
Vapor density:	Not applicable.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable

9.2. Other information

No relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Avoid prolonged exposure above the recommended use temperature.

10.5. Incompatible materials

Strong acids and bases.

10.6. Hazardous decomposition products

No hazardous decomposition products during normal storage and handling.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Based on available data, components are not acutely toxic.

Dust may cause mechanical irritation and dryness to eyes and skin.

Skin Corrosion/Irritation: Handling may cause dryness and may cause temporary irritation to skin.

Serious eye damage/irritation: Handling may cause dryness and may cause temporary irritation to skin.

Sensitization: The chemical structure does not suggest a sensitizing effect.

Chronic Toxicity:

Based on available data, the classification criteria are not met.

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**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

IARC is a research organization that evaluates the evidence on the causes of cancer but does not make regulation, legislation, or public health intervention recommendations. The IARC Monographs Program identifies cancer hazards but does not evaluate risks associated with specific levels or circumstances of exposure.

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

No additional information available

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity****Aquatic toxicity**

Not toxic to aquatic environment.

12.2. Persistence and degradability

No relevant information available.

12.3. Bioaccumulative potential

No relevant information available.

12.4. Mobility in soil

No relevant information available.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Endocrine disrupting properties**Product**

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7. Other adverse effects

No relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

13.2. Uncleaned packaging

Recommendation: Cover promptly to avoid dust generation.

Disposal must be made according to official regulations.



SECTION 14 : TRANSPORT INFORMATION

UN-Number

DOT, IMDG, IATA

Not applicable

UN proper shipping name

DOT, IMDG, IATA

Not applicable

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable

Packing group

DOT, IMDG, IATA

Not applicable

Environmental hazards

Special precautions for user

Not applicable

Not applicable

Not applicable

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

UN "Model Regulation"

Not determined

Not applicable

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations

OSHA Hazard Communication Standard (29 CFR 1910.1200)

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard.

Toxic Substances Control Act (TSCA)

All components are on the inventory or in compliance with the inventory.

CERCLA (Comprehensive Response Compensation and Liability Act)

Product is not classified as hazardous or reportable under this requirement.

SARA TITLE III (Superfund Amendments and Reauthorization Act)

Product is not classified as hazardous or reportable under this requirement.

311/312 HAZARD CATEGORIES

Materials in this product are classified as hazardous or reportable under this requirement.

313 REPORTABLE INGREDIENTS

Materials in this product are not classified as hazardous or reportable under this requirement.

STATE REGULATIONS

Materials in this product appear on the following state hazardous substance lists: CA, IN, KY, MA, MN, NC, NJ, OR, PA. Check individual state requirements.

European Union

This Product is not classified as a dangerous material or preparation as defined in EC Directives 67/548/EEC or 1999/45/EC.

Aerogel insulation blankets are considered an article, not a substance or preparation, under the REACH directive. (Regulation (EC) No. 1907/2006 (REACH))

This safety data sheets complying with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

This safety data sheets complying with Regulation (EC) No 1272/2008 Of the European Parliament and Of the Council Of 16 December 2008 on Classification, Labelling and Packaging of Substances and Mixtures, Amending and Repealing Directives 67/548/EEC And 1999/45/EC, And Amending Regulation (EC) No 1907/2006.

**California Proposition 65**

None of the ingredients is listed.

Australia Inventory of Chemical Substances (AICS)

No information available.

Canada Domestic Substance List (DSL)

All chemical substances in this product are included on or exempted from the Canadian Domestic Substance List (DSL).

China Existing Chemical Inventory (IECSC)

No information available

European Inventory of Existing Commercial Chemical Substances (EINECS)

No information available.

Japanese Existing and New Chemical Substances Inventory (ENCS)

No information available.

Korea Toxic Chemical Control Law (KECI) or Existing Chemicals List (ECL)

No information available.

Malaysia Environmentally Hazardous Substances Notification and Registration (EHSNR)

No information available.

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

No information available.

New Zealand Inventory of Chemicals (NZIoC)

No information available.

Taiwan Inventory of Chemicals (CSNN)

No information available.

Mexico El inventario Nacional de Sustancias Químicas (INSQ)

No information available.

International Regulations

No information available.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

Product safety data sheet for prepared in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC, 2000/21/EC and Commission Regulation (EU) 2020/878.

16.1. Indication of changes (Additions, Deletions, Revisions)

Date of last issue: 09.08.2024

Date of first issue: 09.08.2024

Revision Date: -

16.2. Abbreviations and acronyms

CLP = Classification Labelling Packaging

CAS No. = Chemical Abstracts Service number.

EC Number = EINECS and ELINCS Number (see also EINECS and ELINCS).

EU = European Union.

IARC = International Agency for Research on Cancer.

OSHA = European Agency for Safety and Health at work.

PBT = Persistent, Bioaccumulative and Toxic substance.

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals Regulation (EU) No 2015/830.

SVHC = Substances of Very High Concern.

vPvB = very Persistent and very Bioaccumulative.

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UN = United Nations.

MARPOL = International Convention for the Prevention of Pollution from Ships (IMO).

IBC = Intermediate Bulk Container.

EINECS = European Inventory of Existing Commercial chemical Substances.

ELINCS = European List of Notified Chemical Substances.

ADN/ADNR= Regulations concerning the transport of dangerous substances in barges on inland waterways.

ADR/RID = European Agreement concerns the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.

16.3. Key literature reference and sources for data:

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

16.4. Classification and procedure used to derive the classification for mixtures according to Regulation (EC)1272/2008(CLP)

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 Of the European Parliament and Of the Council Of 16 December 2008 on Classification, Labelling and Packaging of Substances and Mixtures, Amending and Repealing Directives 67/548/EEC And 1999/45/EC, And Amending Regulation (EC) No 1907/2006.

16.5. Relevant R-phrases and/or H-statements (number and full text)

National Fire Protection Association (NFPA) Rating

Health:[1] - Irritation or minor reversible injury possible.

Flammability: [0] - Will not burn.

Reactivity:[0] - Normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives

Other: Not Applicable



The Hazardous Materials Information System (HMIS)Rating

Health: [1] - Irritation or minor reversible injury possible.

Flammability: [0] - Will not burn.

Reactivity: [0] - Normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosives

Personal Protection: See SECTION 8

16.6. Training advice:

Do not handle until all safety precautions have been read and understood.

16.7. Further information

Edited by: PINAR YİĞİTOĞLU ARTUK

Chemical Evaluation Specialist Preparer Certificate Number and Date: NBC / 04.22.02&08.08.2023

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation, as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not valid for the new made-up material. This version of the SDS supersedes all previous versions.



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