



SDS Service Summary

No.: CANPC25008278901

Date: 21 Apr 2025

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SGS Job No. : SZPC2504002436
Product Name : Electricity-free cooling coating(Single-component interface coating)
Manufacturer / Supplier : I2COOL SHENZHEN LIMITED
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS
Job Receiving Date : 15 Apr 2025
SDS Preparation Period : 15 Apr 2025-18 Apr 2025

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product. SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Zm Guan
Project Engineer

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 18.04.2025

Version number: 1

Revision date: 17.04.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Electricity-free cooling coating(Single-component interface coating)
- **UFI:** UA80-E0N0-M001-740Y
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Water-based reflective coating for outdoor use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** I2COOL SHENZHEN LIMITED
- **Full address:**
ROOM 311, BUILDING A, HONG KONG SCIENCE PARK SHENZHEN BRANCH, 32 SHIHUA ROAD, FUTIAN DISTRICT, SHENZHEN
- **Phone number:** 86-18033094332
- **Email:** info@i2cool.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**
IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** CANPC25008278901,SZPC2504002436

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**
The product has not to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards:**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:**
Mixture of the substances listed below with nonhazardous additions.
For the wording of the listed hazard statements refer to section 16.

(Contd. on page 2)

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Regulation (EC) 1907/2006 and 1272/2008

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Trade name: Electricity-free cooling coating(Single-component interface coating)

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· Composition:

CAS: 7732-18-5 EINECS: 231-791-2	Water	60%
CAS: 9003-01-4	2-Propenoic acid, homopolymer Substance with a Union workplace exposure limit	40%

SECTION 4: First aid measures

· 4.1 Description of first aid measures
· General description: No special measures required.

· After inhalation:

Move the person to fresh air and seek immediate medical assistance; if not breathing, administer artificial respiration, if experiencing difficulty in breathing, provide oxygen and ensure rest.

· After skin contact:

In case of skin contact, immediately flush with plenty of water and soap, and at the same time remove contaminated clothing and footwear.

· After eye contact:

Immediately rinse eyes with plenty of water until the irritation subsides; remove contact lenses and seek immediate assistance from an ophthalmologist

· After swallowing:

Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth to an unconscious person. Rest and seek medical attention immediately.

· 4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting 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: No further relevant information available.

· 5.3 Advice for firefighters
· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures: Not required.

· 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 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.

EU

(Contd. on page 3)

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 18.04.2025

Version number: 1

Revision date: 17.04.2025

Trade name: Electricity-free cooling coating(Single-component interface coating)

(Contd. from page 2)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**
No special measures required.
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 9003-01-4 2-Propenoic acid, homopolymer

MAK (Germany) Long-term value: 0.05A mg/m³

- **Regulatory information MAK (Germany):** MAK- und BAT-Liste
- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:**
Use of NIOSH - approved respirators with organic vapour cartridges is recommended.
- **Hand protection:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Use of Protective Gloves

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection:** It is recommended to use safety goggles or eye protectors with a side shield.

- **Body protection:** Protective work clothing

- **Thermal hazards:** Not required for normal conditions of use.

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

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Trade name: Electricity-free cooling coating(Single-component interface coating)

(Contd. from page 3)

- **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- **Physical state:** Liquid
- **Colour:** Translucence
- **Odour:** Slight paint smell
- **Odour threshold:** Not available
- **Melting point/Freezing point:** Not available
- **Boiling point or initial boiling point and boiling range:** Not available
- **Flammability:** Not available
- **Lower and upper explosion limit**
- **Lower:** Not available
- **Upper:** Not available
- **Flash point:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **pH:** Not available
- **Viscosity**
- **Kinematic viscosity:** Not available
- **Dynamic viscosity:** Not available
- **Solubility**
- **Water:** Not available
- **Partition coefficient n-octanol/water (log value):** Not available
- **Vapour pressure:** Not available
- **Density and/or relative density**
- **Density:** Not available
- **Relative density:** Not available
- **Relative vapour density:** Not available
- **Particle characteristics:** Not available

· 9.2 Other information

- **Appearance**
- **Form:** Liquid

· Information with regard to physical hazard classes

- **Explosives:** Not applicable
- **Flammable gases:** Not applicable
- **Aerosols:** Not applicable
- **Oxidising gases:** Not applicable
- **Gases under pressure:** Not applicable
- **Flammable liquids:** Not applicable
- **Flammable solids:** Not applicable
- **Self-reactive substances and mixtures:** Not applicable
- **Pyrophoric liquids:** Not applicable
- **Pyrophoric solids:** Not applicable
- **Self-heating substances and mixtures:** Not applicable
- **Substances and mixtures, which emit flammable gases in contact with water:** Not applicable
- **Oxidising liquids:** Not applicable
- **Oxidising solids:** Not applicable
- **Organic peroxides:** Not applicable
- **Corrosive to metals:** Not applicable
- **Desensitised explosives:** Not applicable

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Trade name: Electricity-free cooling coating(Single-component interface coating)

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· **Other safety characteristics:** Not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** The product is stable under the recommended storage and handling conditions.
- **10.3 Possibility of hazardous reactions:**
Under normal storage and use conditions, no hazardous reactions will occur.
- **10.4 Conditions to avoid:**
Keep away from oxidizing agents, strong bases, and strong acids to avoid exothermic reactions. Avoid all possible sources of ignition (sparks and flames). Do not pressurize, cut, weld, braze, drill, grind, or expose containers to heat or fire sources.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Exposure to high temperatures may produce harmful decomposition products, such as carbon monoxide, carbon dioxide, nitrogen oxides, and smoke.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** Not available
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **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**
- **Endocrine disrupting properties:**
None of the ingredients is listed.
- **Other information:** No further relevant information available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties:**
The product does not contain substances with endocrine disrupting properties.

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

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Trade name: Electricity-free cooling coating(Single-component interface coating)

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- **12.7 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|--|
| · 14.1 UN number or ID number | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.2 UN proper shipping name | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN, IMDG, IATA | |
| · Class | Not applicable |
| · Label | - |
| · 14.4 Packing group | |
| · ADR/RID/ADN, IMDG, IATA | Not applicable |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user: | Not applicable |
| · Hazard identification number (Kemler code): | - |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable |
| · 14.8 Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Not applicable |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** Not applicable
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** Not applicable
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** Not applicable

- **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

None of the ingredients is listed.

- **Regulation (EU) No 649/2012**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

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Regulation (EC) 1907/2006 and 1272/2008

Printing date: 18.04.2025

Version number: 1

Revision date: 17.04.2025

Trade name: Electricity-free cooling coating(Single-component interface coating)

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· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **REGULATION (EU) 2024/590 on substances that deplete the ozone layer**

None of the ingredients is listed.

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (21/1/2025)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (19/9/2024)**

See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (13/11/2023)**

None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Recommended restriction of use** Not applicable

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

End of document



SDS Service Summary

No.: CANPC25004813301

Date: 17 Mar 2025

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SGS Job No. : SZPC2503001352
Product Name : Electricity-free cooling coating(Single-component primer)
Manufacturer / Supplier : I2COOL SHENZHEN LIMITED
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS
Job Receiving Date : 11 Mar 2025
SDS Preparation Period : 11 Mar 2025-14 Mar 2025

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Remark : Others is/are not classified in this SDS, as no information was found in company and literature data, and client cannot provide SDS(s) for classification.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product. SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Zm Guan
Project Engineer

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Electricity-free cooling coating(Single-component primer)
- **UFI:** 6J40-508J-4007-43GA
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Water-based reflective coating for outdoor use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** I2COOL SHENZHEN LIMITED
- **Full address:**
ROOM 311, BUILDING A, HONG KONG SCIENCE PARK SHENZHEN BRANCH, 32 SHIHUA ROAD, FUTIAN DISTRICT, SHENZHEN
- **Phone number:** 86-18033094332
- **Email:** info@i2cool.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**
IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** CANPC25004813301,SZPC2503001352

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **Additional information:**
EUH210 Safety data sheet available on request.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **2.3 Other hazards:**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

EU

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

Trade name: Electricity-free cooling coating(Single-component primer)

(Contd. from page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Mixture of the substances listed below with nonhazardous additions.
For the wording of the listed hazard statements refer to section 16.

· Composition:

CAS: 9003-01-4	2-Propenoic acid, homopolymer	50%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2	Titanium dioxide  Carc. 2, H351 Note: V, W, 10 Substance with a Union workplace exposure limit	27%
CAS: 7732-18-5 EINECS: 231-791-2	Water	19%
CAS:	Others	4%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Move the person to fresh air and seek immediate medical assistance; if not breathing, administer artificial respiration, if experiencing difficulty in breathing, provide oxygen and ensure rest.

· After skin contact:

In case of skin contact, immediately flush with plenty of water and soap, and at the same time remove contaminated clothing and footwear.

· After eye contact:

Immediately rinse eyes with plenty of water until the irritation subsides; remove contact lenses and seek immediate assistance from an ophthalmologist

· After swallowing:

Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth to an unconscious person. Rest and seek medical attention immediately.

· 4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting 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: No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures: Not required.

· 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

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Trade name: Electricity-free cooling coating(Single-component primer)

(Contd. from page 2)

- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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:** For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

CAS: 13463-67-7 Titanium dioxide (27%)

AGW (Germany)	Long-term value: $1.25 \cdot 10^{**} \text{ mg/m}^3$ 2(II); *alveolengängig **einstaubbar; AGS, DFG, Y
VLEP (France)	Long-term value: 10 mg/m^3 C2
OEL (Ireland)	Long-term value: $10 \cdot 4^{**} \text{ mg/m}^3$ *total inhalable **respirable dust

· **Regulatory information**

AGW (Germany): TRGS 900

VLEP (France): ED 1487 05.2021

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

- **DNELs:** Not available

- **PNECs:** Not available

- **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

- **Appropriate engineering controls:**

Wash hands before breaks and at the end of work.

See Section 7 for information about design of technical facilities.

- **Individual protection measures, such as personal protective equipment**

- **Respiratory protection:**

Use of NIOSH - approved respirators with organic vapour cartridges is recommended.

- **Hand protection:**



Protective gloves

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

Trade name: Electricity-free cooling coating(Single-component primer)

(Contd. from page 3)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Use of Protective Gloves

• **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eyeface protection:** It is recommended to use safety goggles or eye protectors with a side shield.

• **Body protection:** Protective work clothing

• **Thermal hazards:** Not required for normal conditions of use.

• **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• Physical state:	Liquid
• Colour:	White
• Odour:	Slight paint smell
• Odour threshold:	Not available
• Melting point/Freezing point:	Not available
• Boiling point or initial boiling point and boiling range:	Not available
• Flammability:	Not available
• Lower and upper explosion limit	
• Lower:	Not available
• Upper:	Not available
• Flash point:	Not available
• Auto-ignition temperature:	Not available
• Decomposition temperature:	Not available
• pH:	Not available
• Viscosity	
• Kinematic viscosity:	Not available
• Dynamic viscosity:	Not available
• Solubility	
• Water:	Not available
• Partition coefficient n-octanol/water (log value):	Not available
• Vapour pressure:	Not available
• Density and/or relative density	
• Density:	Not available
• Relative density:	Not available
• Relative vapour density:	Not available
• Particle characteristics:	Not available

• **9.2 Other information**

• Appearance	
• Form:	Liquid

• **Information with regard to physical hazard classes**

• Explosives:	Not applicable
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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

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Trade name: Electricity-free cooling coating(Single-component primer)

(Contd. from page 4)

· Flammable gases:	Not applicable
· Aerosols:	Not applicable
· Oxidising gases:	Not applicable
· Gases under pressure:	Not applicable
· Flammable liquids:	Not applicable
· Flammable solids:	Not applicable
· Self-reactive substances and mixtures:	Not applicable
· Pyrophoric liquids:	Not applicable
· Pyrophoric solids:	Not applicable
· Self-heating substances and mixtures:	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water:	Not applicable
· Oxidising liquids:	Not applicable
· Oxidising solids:	Not applicable
· Organic peroxides:	Not applicable
· Corrosive to metals:	Not applicable
· Desensitised explosives:	Not applicable
· Other safety characteristics:	Not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** The product is stable under the recommended storage and handling conditions.
- **10.3 Possibility of hazardous reactions:**
Under normal storage and use conditions, no hazardous reactions will occur.
- **10.4 Conditions to avoid:**
Keep away from oxidizing agents, strong bases, and strong acids to avoid exothermic reactions. Avoid all possible sources of ignition (sparks and flames). Do not pressurize, cut, weld, braze, drill, grind, or expose containers to heat or fire sources.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Exposure to high temperatures may produce harmful decomposition products, such as carbon monoxide, carbon dioxide, nitrogen oxides, and smoke.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

CAS: 13463-67-7 Titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **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.

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

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Trade name: Electricity-free cooling coating(Single-component primer)

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· **11.2 Information on other hazards**

· **Endocrine disrupting properties:**

None of the ingredients is listed.

· **Other information:** No further relevant information available.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability:** No further relevant information available.

· **12.3 Bioaccumulative potential:** No further relevant information available.

· **12.4 Mobility in soil:** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **12.6 Endocrine disrupting properties:**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **14.2 UN proper shipping name**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN, IMDG, IATA**

· **Class**

Not applicable

· **Label**

-

· **14.4 Packing group**

· **ADR/RID/ADN, IMDG, IATA** Not applicable

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

· **14.6 Special precautions for user:**

Not applicable

· **Hazard identification number (Kemler code):**

-

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable

· **14.8 Transport/Additional information:**

Not applicable

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

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· **UN "Model Regulation":**

Not applicable

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.· **Seveso category** Not applicable· **Qualifying quantity (tonnes) for the application of lower-tier requirements** Not applicable· **Qualifying quantity (tonnes) for the application of upper-tier requirements** Not applicable· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

None of the ingredients is listed.

· **Regulation (EU) No 649/2012**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)**

None of the ingredients is listed.

· **Other regulations, limitations and prohibitive regulations**· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (21/1/2025)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (19/9/2024)**

See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (13/11/2023)**

None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Recommended restriction of use** Not applicable· **Relevant hazard statements**

H351 Suspected of causing cancer.

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

DISCLAIMER OF LIABILITY

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Safety data sheet
Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

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Trade name: Electricity-free cooling coating(Single-component primer)

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The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Carc. 2: Carcinogenicity – Category 2

End of document

EU



SDS Service Summary

No.: CANPC25004813201

Date: 17 Mar 2025

Page 1 of 1

SGS Job No. : SZPC2503001352
Product Name : Electricity-free cooling coating(Single-component top coat)
Manufacturer / Supplier : I2COOL SHENZHEN LIMITED
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS
Job Receiving Date : 11 Mar 2025
SDS Preparation Period : 11 Mar 2025-14 Mar 2025

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Remark : Others is/are not classified in this SDS, as no information was found in company and literature data, and client cannot provide SDS(s) for classification.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product. SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Zm Guan
Project Engineer

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Electricity-free cooling coating(Single-component top coat)
- **UFI:** PF40-NOK4-T00Q-FRW8
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Water-based reflective coating for outdoor use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** I2COOL SHENZHEN LIMITED
- **Full address:**
ROOM 311, BUILDING A, HONG KONG SCIENCE PARK SHENZHEN BRANCH, 32 SHIHUA ROAD, FUTIAN DISTRICT, SHENZHEN
- **Phone number:** 86-18033094332
- **Email:** info@i2cool.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**
IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** CANPC25004813201,SZPC2503001352

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **Additional information:**
EUH210 Safety data sheet available on request.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- **2.3 Other hazards:**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

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(Contd. on page 2)

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

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Trade name: Electricity-free cooling coating(Single-component top coat)

(Contd. from page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:

Mixture of the substances listed below with nonhazardous additions.
For the wording of the listed hazard statements refer to section 16.

· Composition:

CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2	Titanium dioxide -----  Carc. 2, H351 Note: V, W, 10 Substance with a Union workplace exposure limit	22%
CAS: 9003-01-4	2-Propenoic acid, homopolymer	19%
CAS: 7727-43-7 EINECS: 231-784-4	Barium sulfate Substance with a Union workplace exposure limit	19%
CAS: 1344-28-1 EINECS: 215-691-6	Aluminium oxide Substance with a Union workplace exposure limit	16%
CAS: 7732-18-5 EINECS: 231-791-2	Water	13%
CAS: 471-34-1 EINECS: 207-439-9	Calcium carbonate Substance with a Union workplace exposure limit	6%
CAS:	Others	5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Move the person to fresh air and seek immediate medical assistance; if not breathing, administer artificial respiration, if experiencing difficulty in breathing, provide oxygen and ensure rest.

· After skin contact:

In case of skin contact, immediately flush with plenty of water and soap, and at the same time remove contaminated clothing and footwear.

· After eye contact:

Immediately rinse eyes with plenty of water until the irritation subsides; remove contact lenses and seek immediate assistance from an ophthalmologist

· After swallowing:

Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth to an unconscious person. Rest and seek medical attention immediately.

· 4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting 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: No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment: No special measures required.

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(Contd. on page 3)

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(Contd. from page 2)

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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:** For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 13463-67-7 Titanium dioxide (22%)

AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**eintembar; AGS, DFG, Y
VLEP (France)	Long-term value: 10 mg/m ³ C2
OEL (Ireland)	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable dust

CAS: 7727-43-7 Barium sulfate (19%)

AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**eintembar; AGS, DFG, Y
OEL (Ireland)	Long-term value: 5 mg/m ³

CAS: 1344-28-1 Aluminium oxide (16%)

AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**eintembar; AGS, DFG, Y
VLEP (France)	Long-term value: 10 mg/m ³
OEL (Ireland)	Long-term value: 10* 4** mg/m ³ *total inhalable **respirable dust

CAS: 471-34-1 Calcium carbonate (6%)

VLEP (France)	Long-term value: 10 mg/m ³
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· **Regulatory information**

AGW (Germany): TRGS 900

VLEP (France): ED 1487 05.2021

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

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- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.
- **Appropriate engineering controls:**
Wash hands before breaks and at the end of work.
See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:**
Use of NIOSH - approved respirators with organic vapour cartridges is recommended.
- **Hand protection:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Use of Protective Gloves

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection:** It is recommended to use safety goggles or eye protectors with a side shield.
- **Body protection:** Protective work clothing
- **Thermal hazards:** Not required for normal conditions of use.
- **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Physical state:** Liquid
- **Colour:** White
- **Odour:** Slight paint smell
- **Odour threshold:** Not available
- **Melting point/Freezing point:** Not available
- **Boiling point or initial boiling point and boiling range:** Not available
- **Flammability:** Not available
- **Lower and upper explosion limit**
- **Lower:** Not available
- **Upper:** Not available
- **Flash point:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available

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Regulation (EC) 1907/2006 and 1272/2008

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Trade name: Electricity-free cooling coating(Single-component top coat)

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· pH:	Not available
· Viscosity	
· Kinematic viscosity:	Not available
· Dynamic viscosity:	Not available
· Solubility	
· Water:	Not available
· Partition coefficient n-octanol/water (log value):	Not available
· Vapour pressure:	Not available
· Density and/or relative density	
· Density:	Not available
· Relative density:	Not available
· Relative vapour density:	Not available
· Particle characteristics:	Not available

· 9.2 Other information

· Appearance	
· Form:	Liquid

· Information with regard to physical hazard classes	
· Explosives:	Not applicable
· Flammable gases:	Not applicable
· Aerosols:	Not applicable
· Oxidising gases:	Not applicable
· Gases under pressure:	Not applicable
· Flammable liquids:	Not applicable
· Flammable solids:	Not applicable
· Self-reactive substances and mixtures:	Not applicable
· Pyrophoric liquids:	Not applicable
· Pyrophoric solids:	Not applicable
· Self-heating substances and mixtures:	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water:	Not applicable
· Oxidising liquids:	Not applicable
· Oxidising solids:	Not applicable
· Organic peroxides:	Not applicable
· Corrosive to metals:	Not applicable
· Desensitised explosives:	Not applicable
· Other safety characteristics:	Not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** The product is stable under the recommended storage and handling conditions.
- **10.3 Possibility of hazardous reactions:**
Under normal storage and use conditions, no hazardous reactions will occur.
- **10.4 Conditions to avoid:**
Keep away from oxidizing agents, strong bases, and strong acids to avoid exothermic reactions. Avoid all possible sources of ignition (sparks and flames). Do not pressurize, cut, weld, braze, drill, grind, or expose containers to heat or fire sources.
- **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 6)

Safety data sheet

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Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

Trade name: Electricity-free cooling coating(Single-component top coat)

(Contd. from page 5)

· **10.6 Hazardous decomposition products:**

Exposure to high temperatures may produce harmful decomposition products, such as carbon monoxide, carbon dioxide, nitrogen oxides, and smoke.

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- **Acute toxicity**
- **LD/LC50 values relevant for classification:** Not available
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **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**

· **Endocrine disrupting properties:**

None of the ingredients is listed.

· **Other information:** No further relevant information available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties:**
- The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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(Contd. on page 7)

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

Trade name: Electricity-free cooling coating(Single-component top coat)

(Contd. from page 6)

SECTION 14: Transport information

· 14.1 UN number or ID number	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.2 UN proper shipping name	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN, IMDG, IATA	
· Class	Not applicable
· Label	-
· 14.4 Packing group	
· ADR/RID/ADN, IMDG, IATA	Not applicable
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user:	Not applicable
· Hazard identification number (Kemler code):	-
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· 14.8 Transport/Additional information:	Not applicable
· UN "Model Regulation":	Not applicable

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category Not applicable
- Qualifying quantity (tonnes) for the application of lower-tier requirements Not applicable
- Qualifying quantity (tonnes) for the application of upper-tier requirements Not applicable

· REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)

None of the ingredients is listed.

· Regulation (EU) No 649/2012

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)

None of the ingredients is listed.

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Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

Trade name: Electricity-free cooling coating(Single-component top coat)

(Contd. from page 7)

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (21/1/2025)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (19/9/2024)**

See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (13/11/2023)**

None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Recommended restriction of use** Not applicable

· **Relevant hazard statements**

H351 Suspected of causing cancer.

· *****
The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2020/878.

DISCLAIMER OF LIABILITY

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· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Carc. 2: Carcinogenicity – Category 2

· *****

End of document



SDS Service Summary

No.: CANPC25004813701

Date: 17 Mar 2025

Page 1 of 1

SGS Job No. : SZPC2503001352
Product Name : Electricity-free cooling coating(Single-component protective coat-matte)
Manufacturer / Supplier : I2COOL SHENZHEN LIMITED
Composition/Ingredient of product (as per applicant submission) : See *section 3 Composition/information on ingredients* on the SDS
Job Receiving Date : 11 Mar 2025
SDS Preparation Period : 11 Mar 2025-14 Mar 2025

Service Requested : Preparation of Safety Data Sheet (SDS) for the product with submitted information, with calculation of the classification and labeling requirement according to the submitted composition and European Commission Regulation (EC) No 1272/2008.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2020/878, and is provided per attached.

Remark : Others is/are not classified in this SDS, as no information was found in company and literature data, and client cannot provide SDS(s) for classification.

Disclaimer

This Safety Data Sheet (SDS) is provided to applicant to fulfill European Commission Regulation (EC) No 1907/2006 and communicate the hazard information of chemicals through the supply chain to ensure safe use. It is not a test report or a certificate ensuring the safety of a product. SGS has consolidated product information based on documents provided by Applicant (i.e. product name, the supplier details, product composition, available physical data, etc.) without independent verification from SGS. The information is provided without any warranty, express or implied, regarding its correctness.

Zm Guan
Project Engineer

Safety data sheet

Regulation (EC) 1907/2006 and 1272/2008

Printing date: 14.03.2025

Version number: 1

Revision date: 13.03.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Electricity-free cooling coating(Single-component protective coat-matte)
- **UFI:** PQ40-50NA-R006-FSNF
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Water-based reflective coating for outdoor use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:** I2COOL SHENZHEN LIMITED
- **Full address:**
ROOM 311, BUILDING A, HONG KONG SCIENCE PARK SHENZHEN BRANCH, 32 SHIHUA ROAD, FUTIAN DISTRICT, SHENZHEN
- **Phone number:** 86-18033094332
- **Email:** info@i2cool.com
- **Only Representative / other EU contact point:** Not available
- **1.4 Emergency telephone number:**
IRELAND
National Poisons Information Centre
Tel: +353 (01) 809 2566 (For healthcare professionals)
+353 (01) 809 2166 (For public; 8am - 10pm)
- **1.5 Reference Number:** CANPC25004813701,SZPC2503001352

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Information concerning particular hazards for human and environment:**
The product has not to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable
- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **2.3 Other hazards:**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:**
Mixture of the substances listed below with nonhazardous additions.
For the wording of the listed hazard statements refer to section 16.

(Contd. on page 2)

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Trade name: Electricity-free cooling coating(Single-component protective coat-matte)

(Contd. from page 1)

· Composition:

CAS: 7732-18-5 EINECS: 231-791-2	Water	56%
CAS: 9003-01-4	2-Propenoic acid, homopolymer	36%
CAS:	Others	8%

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General description:** No special measures required.
- **After inhalation:**
Move the person to fresh air and seek immediate medical assistance; if not breathing, administer artificial respiration, if experiencing difficulty in breathing, provide oxygen and ensure rest.
- **After skin contact:**
In case of skin contact, immediately flush with plenty of water and soap, and at the same time remove contaminated clothing and footwear.
- **After eye contact:**
Immediately rinse eyes with plenty of water until the irritation subsides; remove contact lenses and seek immediate assistance from an ophthalmologist
- **After swallowing:**
Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth to an unconscious person. Rest and seek medical attention immediately.
- **4.2 Most important symptoms and effects, both acute and delayed:**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

SECTION 5: Firefighting 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:** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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.

EU

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(Contd. from page 2)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**
No special measures required.
For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:**
Use of NIOSH - approved respirators with organic vapour cartridges is recommended.
- **Hand protection:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Use of Protective Gloves

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection:** It is recommended to use safety goggles or eye protectors with a side shield.
- **Body protection:** Protective work clothing
- **Thermal hazards:** Not required for normal conditions of use.

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(Contd. from page 3)

- **Environmental exposure controls:**
Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- **Physical state:** Liquid
- **Colour:** White
- **Odour:** Slight paint smell
- **Odour threshold:** Not available
- **Melting point/Freezing point:** Not available
- **Boiling point or initial boiling point and boiling range:** Not available
- **Flammability:** Not available
- **Lower and upper explosion limit**
- **Lower:** Not available
- **Upper:** Not available
- **Flash point:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **pH:** Not available
- **Viscosity**
- **Kinematic viscosity:** Not available
- **Dynamic viscosity:** Not available
- **Solubility**
- **Water:** Not available
- **Partition coefficient n-octanol/water (log value):** Not available
- **Vapour pressure:** Not available
- **Density and/or relative density**
- **Density:** Not available
- **Relative density:** Not available
- **Relative vapour density:** Not available
- **Particle characteristics:** Not available

· 9.2 Other information

- **Appearance**
- **Form:** Liquid

· Information with regard to physical hazard classes

- **Explosives:** Not applicable
- **Flammable gases:** Not applicable
- **Aerosols:** Not applicable
- **Oxidising gases:** Not applicable
- **Gases under pressure:** Not applicable
- **Flammable liquids:** Not applicable
- **Flammable solids:** Not applicable
- **Self-reactive substances and mixtures:** Not applicable
- **Pyrophoric liquids:** Not applicable
- **Pyrophoric solids:** Not applicable
- **Self-heating substances and mixtures:** Not applicable
- **Substances and mixtures, which emit flammable gases in contact with water:** Not applicable
- **Oxidising liquids:** Not applicable
- **Oxidising solids:** Not applicable
- **Organic peroxides:** Not applicable
- **Corrosive to metals:** Not applicable
- **Desensitised explosives:** Not applicable

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(Contd. from page 4)

· **Other safety characteristics:** Not available

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** The product is stable under the recommended storage and handling conditions.
- **10.3 Possibility of hazardous reactions:**
Under normal storage and use conditions, no hazardous reactions will occur.
- **10.4 Conditions to avoid:**
Keep away from oxidizing agents, strong bases, and strong acids to avoid exothermic reactions. Avoid all possible sources of ignition (sparks and flames). Do not pressurize, cut, weld, braze, drill, grind, or expose containers to heat or fire sources.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Exposure to high temperatures may produce harmful decomposition products, such as carbon monoxide, carbon dioxide, nitrogen oxides, and smoke.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** Not available
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **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**
- **Endocrine disrupting properties:**
None of the ingredients is listed.
- **Other information:** No further relevant information available.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties:**
The product does not contain substances with endocrine disrupting properties.

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- **12.7 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|---|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA | <p>Not applicable</p> |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR/RID/ADN, IMDG, IATA | <p>Not applicable</p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR/RID/ADN, IMDG, IATA · Class · Label | <p>Not applicable</p> <p>-</p> |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR/RID/ADN, IMDG, IATA | <p>Not applicable</p> |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | <p>No</p> |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user: · Hazard identification number (Kemler code): | <p>Not applicable</p> <p>-</p> |
| <ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments | <p>Not applicable</p> |
| <ul style="list-style-type: none"> · 14.8 Transport/Additional information: | <p>Not dangerous according to the above specifications.</p> |
| <ul style="list-style-type: none"> · UN "Model Regulation": | <p>Not applicable</p> |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** Not applicable
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** Not applicable
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** Not applicable

- **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

None of the ingredients is listed.

- **Regulation (EU) No 649/2012**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

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· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)**

None of the ingredients is listed.

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (21/1/2025)**

None of the ingredients is listed

· **REACH Regulation Annex XVII Restriction (19/9/2024)**
See Section 16 for information about restriction of use.

None of the ingredients is listed

· **REACH Regulation Annex XIV Authorisation List (13/11/2023)**

None of the ingredients is listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Recommended restriction of use** Not applicable

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PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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vPvB: very Persistent and very Bioaccumulative

End of document