# SAFETY DATA SHEET (EC 1906/2006) SiSiB® WR1701

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# **SECTION 1: Identification of the substance/mixture and of the company**

| Product Identifier                   |   |
|--------------------------------------|---|
| Product Name:                        | SiSiB® WR1701                                     |
| Relevant identified uses of the su   | bstance or mixture and uses advised against       |
| Use of substance / preparation:      | Industrial use                                    |
| Details of the supplier of the safet | y data sheet                                      |
| Company                              | Nanjing SiSiB Silicones Co., Ltd.                 |
|                                      | Guanghua Sci & Tech Industrial Zone,              |
|                                      | No. 104, Guanghua Road, Nanjing 210007, P.R.China |
|                                      | Email: SDS@SiSiB.com                              |
| Emergency Telephone Number:          | +86-25-8468-0091                                  |

# **SECTION 2: Hazardous identification**

| Classification of the substance  | or mixture            |   |
|----------------------------------|-----------------------|---|
| Classification according to (REC | GULATION (EC) No 127  | 72/2008)  |
| Flammable liquids                | Category 3            | H226  |
| Label elements                   |                       |   |
| Labeling as per (EU) 1272/2008)  |                       |   |
| Pictogram(s):                    |                       |   |
|                                  | ~                     |   |
|                                  | JUL,                  |   |
|                                  | <u>**</u>             |   |
|                                  | V                     |   |
| Signal word                      | Warning               |   |
| Hazard statement                 | H314 -Causes seve     | ere skin burns and eye damage.                  |
| H-Code                           | Hazard Statements     | 5   |
| H226                             | Flammable liquid ar   | nd vapor.                                       |
| P-Code                           | Precautionary Stat    | tements   |
| P210                             | Keep away from he     | at, hot surfaces, sparks, open flames and other |
|                                  | ignition sources. No  | o smoking.                                      |
| P280                             | Wear protective glo   | ves/protective clothing/eye protection.         |
| P233                             | Keep container tigh   | tly closed.                                     |
| P370 + P378                      | In case of fire: Use  | extinguishing powder, alcohol-resistant foam or |
|                                  | carbon dioxide to ex  | xtinguish.                                      |
| P403 + P235                      | Store in a well-venti | ilated place. Keep cool.                        |
| P501                             | Dispose of contents   | container to waste disposal.                    |
| Other hazards                    |                       |   |
|                                  |                       |   |



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Inhalation of aerosol spray may damage health.

The product hydrolyses under formation of ethanol (CAS NO. 64-17-5). Ethanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

Endocrine disrupting properties - human health: 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.

Endocrine disrupting properties - environment: 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.

# **SECTION 3: Composition/information on ingredients**

# Substances

| Alkoxy silanes                            |   |
|---|---|
| Triethoxy(2,4,4-trimethylpentyl)silane    | >80 %   |
| CAS-No.:                                  | 35435-21-3  |
| EC-No.:                                   | 252-558-1   |
| This product does not contain substances  | of very high concern (Regulation (EC) No 1907/2006 (REACH), |
| Article 57) in amounts above $>= 0.1\%$ . |   |
| Mixtures                                  |   |
| not applicable                            |   |

# **SECTION 4: First aid measures**

# Description of first aid measures

# **General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

# After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

# After contact with the skin:

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

# After inhalation:

Provide fresh air.

# After swallowing:

Give several small portions of water to drink. Do not induce vomiting.



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Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

# **SECTION 5: Firefighting measures**

# Extinguishing media

# Suitable extinguishing media:

alcohol-resistant foam, carbon dioxide, water mist, sprinkler system, sand, extinguishing powder.

Extinguishing media which must not be used for safety reasons:

water jet

### Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes.

### Advice for firefighters

### Special protective equipment for firefighters:

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

# **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material.

#### **Environmental precautions**

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

#### Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

#### Further information:

Exhaust vapors. Eliminate all sources of ignition. Consider explosion protection. Observe notes under



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section 7.

# Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

# **SECTION 7: Handling and storage**

# Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

# Precautions against fire and explosion:

Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

# Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

# Specific end use(s)

#### No data available.

If the annex to this safety data sheet contains exposure scenarios for end uses, the information provided therein has to be observed.

# **SECTION 8: Exposure controls/personal protection**

# **Control parameters**

#### Maximum airborne concentrations at the workplace:

| Substance           | Туре | mg/m <sup>3</sup> | ppm    |
|---------------------|------|-------------------|--------|
| Ethanol             | OEL  | 1920,0            | 1000,0 |
| Aerosol - inhalable |      | 10,0              |        |
| fraction            |      |                   |        |

The aerosol limit specified is a recommendation should aerosol be formed during processing. **Derived No-Effect Level (DNEL):** 



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| Worker; dermal; systemic (<br>Consumer; by inhalation; s<br>Consumer; by inhalation; s<br>Consumer; dermal; system  | emic (long term) systemic (acute<br>(long term) systemic (acute)<br>systemic (long term)<br>systemic effects (acute/subacute)<br>nic (long term)<br>nic effects (acute/subchronisch)<br>(long term)<br>(acute) | 13,4 mg/kg/day<br>11,3 mg/m <sup>3</sup>   |
| Triethoxy(2,4,4-trimethylpen  | ι, γ   |  |
| Area of use:<br>freshwater<br>marine water<br>Intermittent release<br>Sediment (freshwater)<br>Sediment (marine water)<br>Soil<br>sewage treatment plant<br>Secondary poisoning |  | Value:<br>0,64 mg/l<br>0,064 mg/l<br>6,4 mg/l<br>4,3 mg/kg dry mass<br>0,43 mg/kg dry mass<br>0,48 mg/kg dry mass<br>1 mg/l<br>10 mg/kg food |
| Exposure controls   | a limited and controlled   |  |
| Exposure in the work plac   | e innited and controlled   |  |

# General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat, drink or smoke when handling.

# Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

# Personal protection equipment:

#### **Respiratory protection**

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387 Observe the equipment manufacturer's information and wear time limits for respirators.

# Eye protection

Recommendation: protective goggles.

# Hand protection

Protective gloves are required at all times when handling the material, according to recognized standards



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such as EN374.

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: > 0,1 mm

Breakthrough time: > 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

# Skin protection

protective clothing .

# Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

# **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties **Property:** Value: Physical state liquid Color colorless Odor faint Odour Threshold no data available Melting point < -100 °C at 1013 hPa (OECD 102) Freezing point -140.5 °C 239 °C at 1013 hPa (OECD 103) Boiling point/boiling range Lower explosion limit no data available Upper explosion limit no data available 65 °C (closed cup) Flash point Ignition temperature 251 °C (EN 14522) Thermal decomposition no data available Not applicable. pН Water solubility no data available Partition coefficient: n-octanol/water 6.1 no data available Vapor pressure 0.87 g/cm<sup>3</sup> (20 °C; 1013 hPa) (DIN 51757) Density Relative vapor density no data available Particle Size Distribution Not applicable.



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| Sustained combustibility | 20          | data available           |
| Sustained combustibility |             |                          |
| Evaporation rate         | no          | data available           |
| Molecular weight         | no          | data available           |
| Other information        |             |                          |
| No data available.       |             |                          |

# **SECTION 10: Stability and reactivity**

# Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

### **Conditions to avoid**

Moisture, heat, open flames, and other sources of ignition.

### Incompatible materials

Reacts with water, basic substances and acids. The reaction takes place with the formation of ethanol.

### Hazardous decomposition products

Ethanol by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

# **SECTION 11: Toxicological information**

# Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Acute toxicity

# Assessment:

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure. Based on the available data acute toxic effects are not expected after short-term inhalative exposure.

# Product details:

| Exposure routes         | Result/Effect   |
|-------------------------|---|
| Oral                    | LD50 > 2000 mg/kg   |
|                         | Species: Rat, Method: OECD 423, Source: test report               |
| dermal                  | LD50 > 2000 mg/kg   |
|                         | Species: Rat, Method: OECD 402, Source: test report               |
| by inhalation ((spray)) | LC50 > 11,2 mg/l; 4 h   |
|                         | No mortality observed at this dose.                               |
|                         | Species: Rat, Test substance: read-across substance, Method: OECD |
|                         | 403, Source: test report  |

### Skin corrosion/irritation

### Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

# Product details:

No skin irritation



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| (Species: Rabbit, Method    | d: OECD 404, Source: test     | t report)   |
| Serious eye damage/ey       |                               | • •   |
| Assessment:                 |                               |   |
| Based on the available d    | lata a clinically relevant ev | e irritation hazard is not expected.                |
| Product details:            | , , ,                         | •   |
| No eye irritation           |                               |   |
| •                           | d: OECD 405, Source: test     | t report)   |
| Respiratory or skin ser     |                               | . ,   |
| Assessment:                 |                               |   |
| Based on the available d    | lata a sensitization reaction | n is not expected from this product.                |
| Product details:            |                               |   |
| Exposure routes Resu        | lt                            |   |
| •                           | not cause skin sensitizatio   | on.   |
|                             |                               | est, Method: OECD 406, Source: test report)         |
| Germ cell mutagenicity      |                               | · · · · · · /                                       |
| Assessment:                 |                               |   |
| Based on known data a       | significant mutagenic pote    | ntial may be excluded.                              |
| negative                    | 5 5 1                         | ,   |
| -                           | ssay (in vitro) / bacterial c | ells, Method: OECD 471, Source: test report)        |
| negative                    |                               |   |
| -                           | me aberration assay (in v     | /itro) / mammalian cells, Method: OECD 473, Sourc   |
| test report)                |                               | ,   |
| • •                         | lic activation), negative (wi | ith metabolic activation)                           |
| Positive results only in th | e presence of cytotoxicity.   | ·   |
| -                           |                               | /itro) / mammalian cells, Method: OECD 473, Sourc   |
| test report)                |                               |   |
| negative                    |                               |   |
| -                           | assay (in vitro) / mouse lyn  | nphoma cells, Test substance: read-across substanc  |
| Method: OECD 476, Sou       |                               |   |
| negative                    | - ,                           |   |
| •                           | ucleus assay (in vivo),       | Species: MouseApplication Route: Oral, Cell typ     |
|                             | ECD 474, Source: test rep     |   |
| Carcinogenicity             |                               |   |
| Assessment:                 |                               |   |
| Based on the available      | e toxicological data no       | specific evaluation of the carcinogenic potential   |
| scientifically implicated.  |                               |   |
| Reproductive toxicity       |                               |   |
| Assessment:                 |                               |   |
| Animal tests have shown     | n no indications of possibili | ty of damage to embryo and impairment of fertility. |
| Product details:            |                               |   |
|                             |                               | Sisie   |
| · · · ·                     | SINOPCC group.                | SILICONE  |

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Reproductive Toxicity/Fertility

NOAEL: >= 1000 mg/kg

(Test system: screening test, Species: Rat, Application Route: Oral, Method: OECD 422, Source: Conclusion by analogy)

Reproductive Toxicity/Development/Teratogenicity

NOAEL (developmental): >= 1000 mg/kg

NOAEL (maternal): >= 1000 mg/kg

(Symptoms/Effect: Nothing abnormal detected., Test system: Developmental Toxicity Study, Species: Rat, Application Route: Oral, Route of administration: gavage, Frequency of Treatment: day 6 - 20 of gestation, Method: OECD 414, Source: test report)

Specific target organ toxicity - single exposure

# Assessment:

For this endpoint no toxicological test data is available for the whole product.

# Specific target organ toxicity - repeated exposure

# Assessment:

Based on the available data the criteria for classification as toxic after repeated exposure are not fulfilled.

# Product details:

Result/Effect

NOAEL: 150 mg/kg

The given result is based on an evaluation of the whole database for this endpoint ("weight of evidence"). (target organs: Bladder, Test system: Subacute study, Species: Rat, Application Route: Oral, Route of administration: gavage, Test period: 28 d, Frequency of Treatment: 7 d/w, Method: OECD 407, Source: test report)

NOAEC: >= 3 mg/l

(Test system: Subacute study, Species: Rat, Application Route: by inhalation, Route of administration: aerosol, Test period: 28 d, Frequency of Treatment: 5 d/w, hours/day: 6, Subsequent observation period: 14 d, Test substance: read-across substance, Method: OECD 412, Source: test report)

# Aspiration hazard

# Assessment:

For this endpoint no toxicological test data is available for the whole product.

For this endpoint no toxicological test data is available for the whole product.

# Information on other hazards

# Endocrine disrupting properties

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.

# Further toxicological information

Hydrolysis product / impurity: Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central



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nervous system.

# **SECTION 12: Ecological information**

# Toxicity

# Assessment:

Up to the maximal solubility in the test medium the substance and its hydrolysis products do not show any acute effects on aquatic organisms that are relevant for classification and labelling. According to current knowledge adverse effects on water purification plants are not expected.

### **Product details:**

| Result/Effect                        | Species/Test system                        | Source           |
|--------------------------------------|--|------------------|
| LC50: > 100 mg/l (nominal)           | semi-static test                           | test report      |
|                                      | Oncorhynchus mykiss (rainbow trout) (96 h) | OECD 203         |
| EC50: The effect level is greater    | Daphnia (water flea) (48 h)                | Expert judgement |
| than the maximum achievable          |  |                  |
| concentration.                       |  |                  |
| IC50 (Growth rate): The effect level | Pseudokirchneriella subcapitata (green     | Expert judgement |
| is greater than the maximum          | algae) (72 h)                              |                  |
| achievable concentration.            |  |                  |
| EC50: > 100 mg/l                     | activated sludge (3 h)                     | test report      |
| NOEC (reproduction rate): 32 mg/l    | semi-static test                           | test report      |
| (measured)                           | Daphnia magna (Water flea) (21 d)          | OECD 211         |
| The effect level is greater than the |  |                  |
| maximum achievable                   |  |                  |
| concentration.                       |  |                  |

#### Persistence and degradability

#### Assessment:

Contact with water liberates ethanol and silanol- and/or siloxanol-compounds. The hydrolysis product (Ethanol) is readily biologically degradable.

#### **Product details:**

#### **Biodegradation:**

| Result  | Test system/Method                | Source                  |
|---|-----------------------------------|-------------------------|
| 13 % / 28 d<br>Not readily biodegradable.<br>Rapid biological degradation of the<br>organic hydrolysis product. | biological oxygen demand<br>(BOD) | test report<br>OECD 310 |

#### Hydrolysis:

| Result          | Test system      | Source      |
|-----------------|------------------|-------------|
| Half-life: 22 h | pH 7; 20 - 25 °C | calc. value |

### Bioaccumulative potential

#### Assessment:

Product(s) of hydrolysis: Bioaccumulation is not expected to occur.

#### Mobility in soil

#### Assessment:

No data known.



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# Results of PBT and vPvB assessment

This product contains no relevant substances considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

# Endocrine disrupting properties

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.

# Other adverse effects

none known

# **SECTION 13: Disposal considerations**

# Waste treatment methods

### Material

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

# Uncleaned packaging

# **Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

# Waste Key Number

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

# **SECTION 14: Transportation information**

| UN number                  |                     |         |
|----------------------------|---------------------|---------|
| ADR/RID: -                 | IMDG: -             | IATA: - |
| UN proper shipping name    |                     |         |
| ADR/RID:                   | Not dangerous goods |         |
| IMDG:                      | Not dangerous goods |         |
| IATA:                      | Not dangerous goods |         |
| Transport hazard class(es) |                     |         |
| ADR/RID: -                 | IMDG: -             | IATA: - |
| Packing group              |                     |         |



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|  |                |                          |  |  |
| ADR/RID: -   | IMDG: -        | IATA: -                  |  |  |
| Environmental hazards  |                |                          |  |  |
| ADR/RID: no  | IMDG Marine Po | llutant: no IATA: no     |  |  |
| Transport in bulk according to Annex II of MARPOL and the IBC Code |                |                          |  |  |
| Bulk transport in tankers is not intended.                         |                |                          |  |  |

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

| Listed in Directive | Ser. number in list | Qualifying Quantity 1 | Qualifying Quantity 2 |
|---------------------|---------------------|-----------------------|-----------------------|
| FLAMMABLE LIQUIDS   | P5c                 | 5.000 t               | 50.000 t              |

### **Relevant regulations:**

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Japan

ENCS (Handbook of Existing and New Chemical Substances):

This product is listed in, or complies with, the substance inventory. Y

New Zealand

NZIOC (New Zealand Inventory of Chemicals):

This product is not listed or in compliance with the substance inventory.

Australia

AIIC (Australian Inventory of Industrial Chemicals):



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ICONES.

西斯

石丰

tΠ

|                          |                                  | SiSiB® WR1701   |
|--------------------------|----------------------------------|---|
| Version 7.1R             | Page 13 / 13                     | Revision Date 13.04.2024                                    |
| This product is listed i | n, or complies with, the subst   | ance inventory. Y   |
| China                    |                                  |   |
| IECSC (Inventory of E    | xisting Chemical Substances      | s in China):  |
| This product is listed i | n, or complies with, the subst   | ance inventory. Y   |
| Canada                   |                                  |   |
| DSL (Domestic Subst      | ance List):                      |   |
| This product is listed i | n, or complies with, the subst   | ance inventory. Y   |
| Philippines              |                                  |   |
| PICCS (Philippine Inv    | entory of Chemicals and Che      | mical Substances):  |
| This product is listed i | n, or complies with, the subst   | ance inventory. Y   |
| United States of Amer    | ica (USA)                        |   |
| TSCA (Toxic Substan      | ce Control Act Chemical Sub      | stance Inventory):  |
| All components of this   | product are listed as active of  | or are in compliance with the substance inventory. TY       |
| Taiwan                   |                                  |   |
| TCSI (Taiwan Chemic      | al Substance Inventory):         |   |
| This product is listed   | I in, or complies with, the      | substance inventory. General note: The Taiwanese            |
| chemicals regulation     | requires a phase 1 registra      | ation for TCSI-listed or TCSI-compliant substances          |
| imports to Taiwan or I   | manufacturing in Taiwan exc      | eed the trigger quantity of 100 kg/a (for mixtures to b     |
| calculated per each in   | gredient). It is the duty of the | importing/manufacturing legal entity to take care of thi    |
| obligation. Y            |                                  |   |
| European Economic A      | vrea (EEA)                       |   |
| REACH (Regulation (      | EC) No 1907/2006):               |   |
| General note: the regi   | stration obligations for substa  | ances imported into the EEA or manufactured within the      |
| EEA by the supplier m    | entioned in section 1 are fulfi  | lled by the said supplier. The registration obligations for |
| substances imported i    | nto the EEA by customers or      | other downstream users must be fulfilled by the latter      |
| South Korea (Republic    | c of Korea)                      |   |
| AREC (Act on Registr     | ation and Evaluation of Chen     | nicals; "K-REACH"):   |
| Please approach your     | regular contact for more deta    | ailed information.  |
| Chemical safety ass      | essment                          |   |
| For this product, a ch   | nemical safety assessment a      | according to (EC) regulation 1907/2006 (REACH) has          |
| been carried out.        |                                  |   |
| SECTION 16: Other in     | nformation                       |   |
|                          |                                  |   |
| Further information      |                                  |   |
| It must be recognize     | ed that the physical and ch      | nemical properties of any product may not be full           |
| understood and that n    | ew, possibly hazardous prod      | ucts may arise from reactions between chemicals. The        |
| information given in     | this data sheet is based or      | n our present knowledge and shall not constitute a          |
| guarantee for any spe    | cific product features and sha   | all not establish a legally valid contractual relationship. |
|                          |                                  | Sísie   |