

# Swan Analytical Australia Pty Ltd

Chemwatch: **31-9139** Version No: **4.1**  Chemwatch Hazard Alert Code: 0 Issue Date: 23/12/2022 Print Date: 21/08/2024

S.GHS.AUS.EN

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

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

# **Product Identifier**

| Product name                  | Swan Drier Silicagel (20ml, 40ml) |
|-------------------------------|-----------------------------------|
| Chemical Name                 | Not Applicable                    |
| Synonyms                      | Not Available                     |
| Chemical formula              | Not Applicable                    |
| Other means of identification | Not Available                     |

# Relevant identified uses of the substance or mixture and uses advised against

| Relevant identified uses | Use according to manufacturer's directions. |
|--------------------------|---|
|--------------------------|---|

# Details of the manufacturer or supplier of the safety data sheet

| Registered company name | Swan Analytical Australia Pty Ltd SWAN Analytical New Zealand Pty Ltd |   |
|-------------------------|---|---|
| Address                 | Unit 12 45 Leighton Place Hornsby NSW 2077 Australia                  | PO Box 125201 St Heliers, Auckland 1740 New Zealand |
| Telephone               | +61 2 9482 1455   | +64 (0)9 213 7191                                   |
| Fax                     | +61 2 9482 1489   | Not Available                                       |
| Website                 | www.swan.ch   | www.swan-analytical.co.nz                           |
| Email                   | sales@swan-analytical.com.au  | sales@swan-analytical.co.nz                         |

# Emergency telephone number

| Association / Organisation        | Chemwatch CHEMWATCH EMERGENCY RESPONSE (24/7) |                  |
|-----------------------------------|---|------------------|
| Emergency telephone<br>numbers    | +800 2436 2255                                | +61 1800 951 288 |
| Other emergency telephone numbers | +64 (0)9 213 7191                             | +61 3 9573 3188  |

Once connected and if the message is not in your preferred language then please dial 01

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

# NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

# Chemwatch Hazard Ratings

|              | Min | Max |                         |
|--------------|-----|-----|-------------------------|
| Flammability | 0   |     |                         |
| Toxicity     | 0   |     | 0 = Minimum             |
| Body Contact | 0   |     | 1 = Low                 |
| Reactivity   | 0   |     | 2 = Moderate            |
| Chronic      | 0   |     | 3 = High<br>4 = Extreme |

| Poisons Schedule              | Not Applicable |
|-------------------------------|----------------|
| Classification <sup>[1]</sup> | Not Applicable |

# Label elements

| Hazard pictogram(s) | Not Applicable |
|---------------------|----------------|
| Signal word         | Not Applicable |

# Precautionary statement(s) Prevention Not Applicable Precautionary statement(s) Response Not Applicable Precautionary statement(s) Storage

Frecautionary statement(s) Stora

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

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

#### Substances

See section below for composition of Mixtures

# Mixtures

| CAS No    | %[weight]  | Name              |
|-----------|--|-------------------|
| 7699-41-4 | 0.1  | <u>silica gel</u> |
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4.<br>Classification drawn from C&L * EU IOELVs available |                   |

### **SECTION 4 First aid measures**

# Description of first aid measures

| Eye Contact  | <ul> <li>Generally not applicable.</li> </ul>   |
|--------------|---|
| Skin Contact | If skin or hair contact occurs: <ul> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul> |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>                   |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>         |

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

### Extinguishing media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

# Special hazards arising from the substrate or mixture

| Fire Incompatibility | None known. |
|----------------------|-------------|
|                      |             |

# Advice for firefighters

| Advice for menginers  |  |
|-----------------------|--|
| Fire Fighting         | Slight hazard when exposed to heat, flame and oxidisers.   |
| Fire/Explosion Hazard | <ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> </ul> |
| HAZCHEM               | Not Applicable   |

# **SECTION 6 Accidental release measures**

Personal precautions, protective equipment and emergency procedures See section 8

# Environmental precautions

See section 12

### Methods and material for containment and cleaning up

| Minor Spills | <ul> <li>Clean up all spills immediately.</li> <li>Secure load if safe to do so.</li> <li>Bundle/collect recoverable product.</li> <li>Collect remaining material in containers with covers for disposal.</li> </ul> |
|--------------|--|
| Major Spills | <ul> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear physical protective gloves e.g. Leather.</li> </ul>                  |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### SECTION 7 Handling and storage

# Precautions for safe handling

| Safe handling     | <ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> </ul> |
|-------------------|---|
| Other information | Store away from incompatible materials.   |
|                   |   |

# Conditions for safe storage, including any incompatibilities

| Suitable container  | <ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |  |  |  |
|---|---|--|--|--|
| Storage incompatibility Avoid contamination of water, foodstuffs, feed or seed. |   |  |  |  |
|   |   |  |  |  |



X — Must not be stored together

0 — May be stored together with specific preventions

May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

### SECTION 8 Exposure controls / personal protection

# **Control parameters**

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source                       | Ingredient | Material name   | TWA         | STEL             | Peak             | Notes   |
|------------------------------|------------|---|-------------|------------------|------------------|---|
| Australia Exposure Standards | silica gel | Silica gel  | 10<br>mg/m3 | Not<br>Available | Not<br>Available | <ul> <li>(a) This value is for inhalable dust<br/>containing no asbestos and &lt; 1%<br/>crystalline silica.</li> </ul> |
| Australia Exposure Standards | silica gel | Silica - Amorphous: Precipitated silica                               | 10<br>mg/m3 | Not<br>Available | Not<br>Available | <ul> <li>(a) This value is for inhalable dust<br/>containing no asbestos and &lt; 1%<br/>crystalline silica.</li> </ul> |
| Australia Exposure Standards | silica gel | Silica - Amorphous: Silica gel  | 10<br>mg/m3 | Not<br>Available | Not<br>Available | <ul> <li>(a) This value is for inhalable dust<br/>containing no asbestos and &lt; 1%<br/>crystalline silica.</li> </ul> |
| Australia Exposure Standards | silica gel | Silica - Amorphous: Fumed silica<br>(respirable dust)                 | 2<br>mg/m3  | Not<br>Available | Not<br>Available | Not Available   |
| Australia Exposure Standards | silica gel | Fumed silica (respirable dust)  | 2<br>mg/m3  | Not<br>Available | Not<br>Available | Not Available   |
| Australia Exposure Standards | silica gel | Silica - Amorphous: Fume<br>(thermally generated)(respirable<br>dust) | 2<br>mg/m3  | Not<br>Available | Not<br>Available | (e) Containing no asbestos and < 1% crystalline silica.   |
| Australia Exposure Standards | silica gel | Precipitated silica   | 10<br>mg/m3 | Not<br>Available | Not<br>Available | <ul> <li>(a) This value is for inhalable dust<br/>containing no asbestos and &lt; 1%<br/>crystalline silica.</li> </ul> |

| Ingredient | TEEL-1        | TEEL-2    |               | TEEL-3      |
|------------|---------------|-----------|---------------|-------------|
| silica gel | 18 mg/m3      | 200 mg/m3 |               | 1,200 mg/m3 |
| silica gel | 18 mg/m3      | 200 mg/m3 |               | 1,200 mg/m3 |
| silica gel | 18 mg/m3      | 740 mg/m3 |               | 4,500 mg/m3 |
| silica gel | 0.9 mg/m3     | 11 mg/m3  |               | 67 mg/m3    |
|            |               |           |               |             |
| Ingredient | Original IDLH |           | Revised IDLH  |             |
| silica gel | 3,000 mg/m3   |           | Not Available |             |

#### Exposure controls

Emergency Limits

Appropriate engineering<br/>controlsEngineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls<br/>can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.<br/>The basic types of engineering controls are:<br/>Process controls which involve changing the way a job activity or process is done to reduce the risk.<br/>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that<br/>strategically "adds" and "removes" air in the work environment.Individual protection<br/>measures, such as personal<br/>protective equipmentImage: Control of Controls are:<br/>Process controls which high level of protection are:<br/>Process controls which involve changing the way a job activity or process is done to reduce the risk.<br/>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that<br/>strategically "adds" and "removes" air in the work environment.

Eye and face protection

OTHERWISE: • Safety glasses with side shields.

No special equipment for minor exposure i.e. when handling small quantities.

|  | Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. |  |
|--|---|--|
| Skin protection See Hand protection below  |   |  |
| Hands/feet protection                      | No special equipment needed when handling small quantities.<br>OTHERWISE: Wear chemical protective gloves, e.g. PVC.  |  |
| Body protection See Other protection below |   |  |
| Other protection                           | No special equipment needed when handling small quantities.<br>OTHERWISE:<br>• Overalls.<br>• Barrier cream.<br>• Evewash unit.   |  |

### **Respiratory protection**

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

 $\cdot$  Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

# Information on basic physical and chemical properties

**SECTION 9** Physical and chemical properties

| Appearance  | Beads with no odour; insoluble in water. Beads are red when dry and yellow when wet. |  |                |
|---|--|--|----------------|
| Physical state                                    | Manufactured   | Relative density (Water = 1)                           | 0.75 (bulk)    |
| Odour   | Not Available  | Partition coefficient n-octanol<br>/ water             | Not Available  |
| Odour threshold                                   | Not Available  | Auto-ignition temperature<br>(°C)                      | Not Applicable |
| pH (as supplied)                                  | Not Applicable   | Decomposition<br>temperature (°C)                      | Not Available  |
| Melting point / freezing point<br>(°C)            | Not Available  | Viscosity (cSt)  | Not Applicable |
| Initial boiling point and<br>boiling range (°C)   | Not Applicable   | Molecular weight (g/mol)                               | Not Applicable |
| Flash point (°C)                                  | Not Applicable   | Taste  | Not Available  |
| Evaporation rate                                  | Not Applicable   | Explosive properties                                   | Not Available  |
| Flammability                                      | Not Applicable   | Oxidising properties                                   | Not Available  |
| Upper Explosive Limit (%)                         | Not Applicable   | Surface Tension (dyn/cm or<br>mN/m)                    | Not Applicable |
| Lower Explosive Limit (%)                         | Not Applicable   | Volatile Component (%vol)                              | Not Applicable |
| Vapour pressure (kPa)                             | Not Applicable   | Gas group  | Not Available  |
| Solubility in water                               | Immiscible   | pH as a solution (1%)                                  | Not Applicable |
| Vapour density (Air = 1)                          | Not Applicable   | VOC g/L  | Not Available  |
| Heat of Combustion (kJ/g)                         | Not Available  | Ignition Distance (cm)                                 | Not Available  |
| Flame Height (cm)                                 | Not Available  | Flame Duration (s)                                     | Not Available  |
| Enclosed Space Ignition<br>Time Equivalent (s/m3) | Not Available  | Enclosed Space Ignition<br>Deflagration Density (g/m3) | Not Available  |

# SECTION 10 Stability and reactivity

| Reactivity                            | See section 7   |
|---------------------------------------|---|
| Chemical stability                    | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous<br>reactions | See section 7   |
| Conditions to avoid                   | See section 7   |
| Incompatible materials                | See section 7   |
| Hazardous decomposition<br>products   | See section 5   |

# **SECTION 11 Toxicological information**

#### Information on toxicological effects

| · · · · · · · · · · · · · · · · · · · |   |  |  |  |  |
|---------------------------------------|---|--|--|--|--|
| Inhaled                               | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |  |  |  |  |
| Ingestion                             | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack  |  |  |  |  |

| Skin Contact                | of corroborating animal or human evidence. The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. |  |  |  |
|-----------------------------|--|--|--|--|
| Eye                         | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).   |  |  |  |
| Chronic                     | Long-term exposure to the product is not thought to produc<br>animal models); nevertheless exposure by all routes should   | e chronic effects adverse to the health (as classified by EC Directives using<br>I be minimised as a matter of course. |  |  |
| Swan Drier Silicagel (20ml, | ΤΟΧΙΟΙΤΥ   | IRRITATION   |  |  |
| 40ml)                       | Not Available  | Not Available  |  |  |
|                             | ΤΟΧΙΟΙΤΥ   | IRRITATION   |  |  |
|                             | dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>  | Eye (Rabbit) : 8.3 mg/48hr [RTECS]   |  |  |
| silica gel                  | Inhalation (Rat) LC50: >0.09<0.84 mg/l4h <sup>[1]</sup>  | Eye: no adverse effect observed (not irritating) <sup>[1]</sup>  |  |  |
|                             | Oral (Rat) LD50: >1000 mg/kg <sup>[1]</sup>  | Skin: no adverse effect observed (not irritating) <sup>[1]</sup>   |  |  |
|                             | Oral (Rat) LD50: >4500 mg/kg <sup>[2]</sup>  |  |  |  |
| Legend:                     | 1. Value obtained from Europe ECHA Registered Substanc<br>specified data extracted from RTECS - Register of Toxic Ef   | es - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwis<br>fect of chemical Substances          |  |  |

| For silica amorphous:   |
|---|
| Derived No Adverse Effects Level (NOAEL) in the range of 1000 mg/kg/d.                            |
| In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and  |
| little evidence of adverse health effects due to SAS. Repeated exposure (without personal protect |
|   |

|       | In humans, synthetic amorphous silica (SAS) is essentially non-toxic by mouth, skin or eyes, and by inhalation. Epidemiology studies show    |
|-------|--|
| A GEL | little evidence of adverse health effects due to SAS. Repeated exposure (without personal protection) may cause mechanical irritation of the |
|       | eye and drying/cracking of the skin.   |
|       |  |

When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body.

| Acute Toxicity   | × | Carcinogenicity          | ×  |
|--|---|--------------------------|--|
| Skin Irritation/Corrosion  | × | Reproductivity           | ×  |
| Serious Eye<br>Damage/Irritation   | × | STOT - Single Exposure   | ×  |
| Respiratory or Skin<br>sensitisation   | × | STOT - Repeated Exposure | ×  |
| Mutagenicity   | × | Aspiration Hazard        | ×  |
| l egend: 🔰 – Data either not available or does not fill the criteria for classificatio |   |                          | t available or does not fill the criteria for classification |

 Data either not available or does not
 Data available to make classification Legena: not till the criteria for classificat

# **SECTION 12 Ecological information**

| Toxicity |  |
|----------|--|
|----------|--|

| Swan Drier Silicagel (20ml,<br>40ml) | Endpoint         | Test Duration (hr) | Species  | Value            | Source           |
|--------------------------------------|------------------|--------------------|--|------------------|------------------|
|                                      | Not<br>Available | Not Available      | Not Available  | Not<br>Available | Not<br>Available |
| silica gel                           | Endpoint         | Test Duration (hr) | Species  | Value            | Source           |
|                                      | EC50             | 72h                | Algae or other aquatic plants  | 14.1mg/l         | 2                |
|                                      | EC50             | 48h                | Crustacea  | >86mg/l          | 2                |
|                                      | LC50             | 96h                | Fish   | 1033.016mg/l     | 2                |
|                                      | EC50             | 96h                | Algae or other aquatic plants  | 217.576mg/l      | 2                |
|                                      | EC0(ECx)         | 24h                | Crustacea  | >=10000mg/l      | 1                |
| Legend:                              |                  |                    | ECHA Registered Substances - Ecotoxicological Info<br>OC Aquatic Hazard Assessment Data 6. NITE (Japar |                  |                  |

# Persistence and degradability

| Ingredient               | Persistence: Water/Soil | Persistence: Water/Soil Persistence: Air |  |  |
|--------------------------|-------------------------|--|--|--|
| silica gel               | LOW                     | LOW                                      |  |  |
|                          |                         |  |  |  |
| Bioaccumulative potentia | al                      |  |  |  |
| Ingredient               | Bioaccumulation         | Bioaccumulation                          |  |  |
| silica gel               | LOW (LogKOW = 0.5294)   | LOW (LogKOW = 0.5294)                    |  |  |
|                          |                         |  |  |  |
| Mobility in soil         |                         |  |  |  |
| Ingredient               | Mobility                |  |  |  |
| silica gel               | LOW (Log KOC = 23.74)   |  |  |  |

# **SECTION 13 Disposal considerations**

| Waste treatment methods      |  |  |
|------------------------------|--|--|
| Product / Packaging disposal | <ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |  |

# **SECTION 14 Transport information**

# Labels Required

| Marine Pollutant | NO             |
|------------------|----------------|
| HAZCHEM          | Not Applicable |

### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group         |
|--------------|---------------|
| silica gel   | Not Available |

# 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type     |
|--------------|---------------|
| silica gel   | Not Available |

# **SECTION 15 Regulatory information**

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

### silica gel is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

# Additional Regulatory Information

Not Applicable

# **National Inventory Status**

| National Inventory                                  | Status  |
|---|---|
| Australia - AIIC / Australia Non-<br>Industrial Use | Yes   |
| Canada - DSL  | Yes   |
| Canada - NDSL                                       | No (silica gel)   |
| China - IECSC                                       | Yes   |
| Europe - EINEC / ELINCS /<br>NLP                    | Yes   |
| Japan - ENCS  | Yes   |
| Korea - KECI  | Yes   |
| New Zealand - NZIoC                                 | Yes   |
| Philippines - PICCS                                 | Yes   |
| USA - TSCA  | Yes   |
| Taiwan - TCSI                                       | Yes   |
| Mexico - INSQ                                       | Yes   |
| Vietnam - NCI                                       | Yes   |
| Russia - FBEPH                                      | Yes   |
| Legend:   | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

# **SECTION 16 Other information**

| Revision Date | 23/12/2022 |
|---------------|------------|
| Initial Date  | 21/05/2012 |

# **SDS Version Summary**

| Version | Date of<br>Update | Sections Updated  |
|---------|-------------------|---|
| 3.1     | 01/11/2019        | One-off system update. NOTE: This may or may not change the GHS classification, Identification of the substance / mixture and of the company / undertaking - Supplier Information |
| 4.1     | 23/12/2022        | Classification review due to GHS Revision change.   |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
   IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
   PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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