SAFETY DATA SHEETS

According to (EU) No. 1907/2006, (EU) No. 1272/2008 and their amendments and corrigenda

Version: 1.0
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Window Cleaning Solution
Nanoform	not applicable
Other means of identification	
Other names	-
Product number	-
Unique formula identifier (UFI)	Not relevent.

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

Relevant identified uses	Application of window cleaning robot in glass surface cleaning.
Uses advised against	no data available
Reason why uses advised against	no data available

1.3. Details of the supplier of the safety data sheet

Details of the supplier	
Company	Dreame Technology Netherlands B.V.
Address	Spicalaan 29, 2132JG Hoofddorp
Telephone	+31 20 793 2050 Ext. 800
Details of the non-Community manufacturer or formulator	
Company	Suzhou Jiashi Sunshine Biotechnology Co.,Ltd
Address	Floor 6,Building A,No.5088,East The Taihu Lake Road,Xukou Town,Wuzhong District,Suzhou,Jiangsu,China
Telephone	4008557500
E-mail address of competent person responsible for the SDS	yangqing700501@163.com

1.4. Emergency telephone number

Emergency telephone number	-
Opening hours	Monday to Friday, 9 am-5 pm (Standard time zone: UTC/GMT+8 hours).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)

Not classified.

2.1.2. Additional information

For the full text of Classification and Hazard-statements: see SECTION 16.

2.2. Label elements

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

Hazard pictogram(s)	No symbol.
Signal word	No signal word
Hazard statement(s)	none
Precautionary statement(s)	none
Supplemental Hazard information	no data available

2.3. Other hazards

no data available

SECTION 3: Composition/information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Chemical name	Common names and synonyms	CAS number	EC number	Registration number	Classification according to Regulation (EC)No 1278/2008(CLP)	% [weight]	SCL, M-factor, ATE

Water	Water	7732-18-5	231-791-2	-	Not classified.	> 96	-
Ethanol	Ethanol	64-17-5	200-578-6	-	Flam. Liq. 2,H225	<3	-
2-phenoxyethanol	2-Phenoxyethanol	122-99-6	204-589-7	-	Acute Tox. 4,H302;Eye Dam. 1,H318;STOT SE 3,H335	<0.5	-
-	Pigment	-	-	-	no data available	<0.1	-
D-Glucopyranose, oligomers, decyl octyl glycosides	D-Glucopyranose,oligomeric,decyl octyl glycosides	68515-73-1	500-220-1	-	Eye Dam. 1,H318	<0.05	-
-	perfume	-	-	-	no data available	<0.01	-

Additional information for nanoforms

no data available

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

Following inhalation

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

Self-protection of the first aider

Wear protective equipment. Consult a doctor.

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

no data available

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

no data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media

no data available

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

no data available

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3. Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4. Reference to other sections

For disposal suggestions see section 13. For exposure controls / personal protection suggestions see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2. Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

7.3. Specific end use(s)

Main uses of the chemical are mentioned in section 1.2. No other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Component	Ethanol			
CAS No.	64-17-5			
	Limit value - Eight hours		**Limit value - Short term**	
	ppm	**mg/m^3**	**ppm**	**mg/m^3**
Australia	1000	1880		
Austria	1000	1900	2000	3800
Belgium	1000	1907		
Canada - Ontario			1000	
Canada - Québec	1000	1880		
Denmark	1000	1900	2000	3800
Finland	1000	1900	1300 (1)	2500 (1)
France	1000	1900	5000	9500
Germany (AGS)	500	960	1000 (1)	1920 (1)
Germany (DFG)	500	960	1000 (1)	1920 (1)
Hungary		1900		7600
Ireland			1000 (1)	
Latvia		1000		
New Zealand	1000	1880		
Poland		1900		
Singapore	1000	1880		
South Korea	1000	1900		
Spain			1000	1910
Sweden	500	1000	1000 (1)	1900 (1)
Switzerland	500	960	1000	1920
The Netherlands		260		1900
USA - NIOSH	1000	1900		
USA - OSHA	1000	1900		
United Kingdom	1000	1920		
	Remarks			
Finland	(1) 15 minutes average value			
Germany (AGS)	(1) 15 minutes average value			
Germany (DFG)	(1) 15 minutes average value			
Ireland	(1) 15 minutes reference period			
Sweden	(1) 15 minutes average value			

Component	2-Phenoxyethanol			
CAS No.	122-99-6			
	Limit value - Eight hours		**Limit value - Short term**	
	ppm	**mg/m^3**	**ppm**	**mg/m^3**
Austria	20	110	20	110

Component	2-Phenoxyethanol			
CAS No.	122-99-6			
Canada - Ontario	25	141		
Finland	20	110	50 (1)	290 (1)
Germany (AGS)	20 (1)	110 (1)	40 (1)(2)	220 (1)(2)
Germany (DFG)	1 (1)	5,7 (1)	1 (1)(2)	5,7 (1)(2)
Poland		230		
Switzerland	20	110	40	220
	Remarks			
Finland	(1) 15 minutes average value			
Germany (AGS)	(1) Inhalable aerosol and vapour (2) 15 minutes reference period			
Germany (DFG)	(1) Inhalable fraction and vapour (2) 15 minutes average value			

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

8.2.3. Environmental exposure controls

See section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	light blue
Odour	no data available
Melting point/freezing point	no data available
Boiling point or initial boiling point and boiling range	no data available
Flammability	no data available
Lower and upper explosion limit	no data available
Flash point	≥93.6℃
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water	no data available
Vapour pressure	no data available
Density and/or relative density	0.95-1.05 g/cm³
Relative vapour density	no data available
Particle characteristics	no data available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

no data available

9.2.2. Other safety characteristics

no data available

SECTION 10: Stability and reactivity

10.1. Reactivity

no data available

10.2. Chemical stability

no data available

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

no data available

10.5. Incompatible materials

no data available

10.6. Hazardous decomposition products

no data available

SECTION 11: Toxicological information

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

Acute toxicity

- Oral: pure CAS 64-17-5: LD50 - rat (female) - 15 010 mg/kg bw.;pure CAS 122-99-6: LD50 - rat (female) - 1 840 mg/kg bw.
- Inhalation: pure CAS 64-17-5: LC50 - mouse (male) - > 60 000 ppm.;pure CAS 122-99-6: LC50 - rat (male/female) - > 1 000 mg/m³ air (nominal).
- Dermal: pure CAS 122-99-6: LD50 - rat (male/female) - 14 391 mg/kg bw.

Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Summary of evaluation of the CMR properties

no data available

STOT-single exposure

pure CAS 64-17-5: The substance is severely irritating to the eyes. The vapour at high levels is irritating to the eyes and respiratory tract. The substance may cause effects on the central nervous system.;pure CAS 122-99-6: The substance is irritating to the eyes, skin and respiratory tract. The substance may cause effects on the central nervous system and peripheral nervous system. This may result in impaired functions.

STOT-repeated exposure

pure CAS 64-17-5: The substance defats the skin, which may cause dryness or cracking. The substance may have effects on the upper respiratory tract and central nervous system. This may result in irritation, headache, fatigue and lack of concentration. See Notes.;pure CAS 122-99-6: The substance defats the skin, which may cause dryness or cracking. The substance may have effects on the central nervous system. This may result in impaired functions.

Aspiration hazard

pure CAS 64-17-5: A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C.;pure CAS 122-99-6: A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

no data available

11.2.2. Other information

no data available

SECTION 12: Ecological information

12.1. Toxicity

- Toxicity to fish: pure CAS 64-17-5: LC50 - Pimephales promelas - 14.2 g/L - 96 h.;pure CAS 122-99-6: LC50 - Pimephales promelas - 344 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: pure CAS 64-17-5: LC50 - Ceriodaphnia dubia - 5 012 mg/L - 48 h.;pure CAS

122-99-6: EC50 - Daphnia magna - > 500 mg/L - 48 h.
- Toxicity to algae: pure CAS 64-17-5: EC10 - Chlorella vulgaris - 86 mg/L - 4 d.;pure CAS 122-99-6: EC50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - > 500 mg/L - 72 h.
- Toxicity to microorganisms: pure CAS 64-17-5: IC50 - activated sludge from domestic and industrial sewage treatment plants - > 1 000 mg/L - 3 h.;pure CAS 122-99-6: EC20 - activated sludge of a predominantly domestic sewage - 620 mg/L - 30 min. Remarks:Respiration rate.

12.2. Persistence and degradability

no data available

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Endocrine disrupting properties

no data available

12.7. Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

SECTION 14: Transport information

14.1. UN number or ID number

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.2. UN proper shipping name

ADR/RID: Not dangerous goods.
IMDG: Not dangerous goods.
IATA: Not dangerous goods.

14.3. Transport hazard class(es)

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.4. Packing group

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.5. Environmental hazards

ADR/RID: No IMDG: No IATA: No

14.6. Special precautions for user

no data available

14.7. Maritime transport in bulk according to IMO instruments

no data available

SECTION 15: Regulatory information

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

Chemical name	Common names and synonyms	CAS number	EC number
Water	Water	7732-18-5	231-791-2
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
Chemical name	**Common names and synonyms**	**CAS number**	**EC number**
Ethanol	Ethanol	64-17-5	200-578-6
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
Chemical name	**Common names and synonyms**	**CAS number**	**EC number**

2-phenoxyethanol	2-Phenoxyethanol	122-99-6	204-589-7
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.

Chemical name	Common names and synonyms	CAS number	EC number
-	Pigment	-	-
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.

Chemical name	Common names and synonyms	CAS number	EC number
D-Glucopyranose, oligomers, decyl octyl glycosides	D-Glucopyranose,oligomeric,decyl octyl glycosides	68515-73-1	500-220-1
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.

Chemical name	Common names and synonyms	CAS number	EC number
-	perfume	-	-
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Indication of changes

Version 1.0 Initial issue.

Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

Key literature references and sources for data

- IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA - European Chemicals Agency, website: https://echa.europa.eu/

Full text of Classification and Hazard-statements referred to under sections 2

none

Advice on any training appropriate for workers to ensure protection of human health and the environment

Provide sufficient information, guidance and training to operating personnel.

Any questions regarding this SDS, please send your inquiry to sds@xixisys.com.

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.