

SAFETY DATA SHEET



In Situ DNA Microarrays

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

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

Product name	: In Situ DNA Microarrays
Part no.	: G4102A, G4126A, G4450-60510, G4450A, G4818A, G4822A, G4827A, G4831A, G4851-60510, G4851-60520, G4851-60530, G4851B, G4851C, G4852-60510, G4852-60520, G4852A, G4852B, G4853-60510, G4853-60520, G4853B, G4858A, G4859-60510, G4859-60520, G4859-60530, G4859A, G4863A, G4867A, G4870-60530, G4871A, G4872A, G4885A, G5937A, G5940-60530, G5940-60540, G5955-60510, G5963-60510, G5966A, G5972-60510, G5980-60510, G5982-60510, G5982B, G5988B, G5988C, G5907A, G5907B, G5907C, G5907D, G3358A, G4123A, G4447-60510, G4824A, G4828A, G4855A, G4860A, G4866A, G4882A, G5934A, G5909A, G5909B, G5909C, G5909D, G4411B, G4423A, G4423B, G4453A, G4495A, G4496A, G4502A, G4504A, G5930A, G4412A, G4425A, G4425B, G4455A, G4498A, G4503A, G4505A, G4811A, G5931A, G4124A, G4825A, G4829A, G4842A, G4856A, G4861A, G4865A, G4883A, G4903A, G5935A, G5986A, G4125A, G4449-60520, G4826A, G4830A, G4857A, G4862A, G4864A, G4869-60510, G4884A, G4890-60510, G5936A, G5938-60530, G5938-60540, G5950-60530, G5950-60540, G5951-60510, G5954-60510, G5954-60520, G5962-60510, G5967A, G5973-60510, G5976A, G5983-60510, G5983B, G5984-60510, G5984B, G4449-60520, G5905A, G5905B, G5905C, G5905D, G5905E, G2514F, G2519F, G4112-60520, G4112F, G4122F, G4131F, G4426A, G4497A, G4810A, G5932A, G5904A, G5904B, G5904C, G5904D, G2509F, G4427A, G4427B, G4457A, G4471A, G4474A, G4813A, G5933A, G5988A, G4860C, G4132A, G4132B, G4133A

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

Identified uses	: Analytical reagent. For research use only. glass slide
G4102A	SurePrint G3 Custom GE 8x60K
G4126A	SurePrint G3 Custom CGH Microarray 8x60K
G4450-60510	SurePrint G3 Hmn CGH 8x60K Oligo Microarray Kit
G4450A	SurePrint G3 Hmn CGH 8x60K Oligo Microarray Kit
G4818A	SurePrint G3 ChIP/CH3 8x60K Unrestricted Microarray
G4822A	SurePrint G3 ChIP/CH3 8X60K Custom Microarray
G4827A	SurePrint G3 Unrestricted CGH Microarray (8x60K)
G4831A	SurePrint G3 Custom Cyto Array 8x60K
G4851-60510	SurePrint G3 Human GE 8x60K Microarray Kit
G4851-60520	SurePrint G3 Human GE 8x60K V2 Microarray Kit
G4851-60530	SurePrint G3 Human Gene Exp v3 Array Kit
G4851B	SurePrint G3 Human GE V2 8x60K Kit
G4851C	SurePrint G3 Human Gene Exp v3 Array Kit
G4852-60510	SurePrint G3 Mouse GE 8x60K Microarray Kit
G4852-60520	SurePrint G3 Mouse Gene Exp v2 Array Kit
G4852A	SurePrint G3 Mouse GE 8x60K Kit
G4852B	SurePrint G3 Mouse Gene Exp v2 Array Kit
G4853-60510	SurePrint G3 Rat GE 8x60K Microarray Kit
G4853-60520	SurePrint G3 Rat Gene Exp v2 Array Kit
G4853B	SurePrint G3 Rat Gene Exp v2 Array Kit
G4858A	SurePrint G3 Unrestricted GE 8x60K
G4859-60510	SurePrint G3 Mouse v16 miRNA 8x60K Microarray Kit
G4859-60520	SurePrint G3 Mouse v17 miRNA 8x60K Microarray Kit
G4859-60530	SurePrint G3 Mouse miRNA r21 Array Kit
G4859A	SurePrint G3 Mouse v16 miRNA 8x60K
G4863A	SurePrint G3 Custom Exon 8x60K
G4867A	Custom Viral ID 70-mer Microarray 8X60K
G4870-60530	SurePrint G3 Human miRNA r21 Array Kit

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G4871A	SurePrint G3 Custom miRNA 8x60K
G4872A	SurePrint G3 Unrestricted miRNA 8x60K
G4885A	SurePrint G3 Custom CGH+SNP 8x60K
G5937A	SurePrint G3 Custom OGT CGH Microarray 8x60K
G5940-60530	CGX™ v2 8x60K-048687, (2 slide pk)
G5940-60540	CGX™ v2 8x60K-048687, (4 slide pk)
G5955-60510	SurePrint G3 ISCA V2 CGH 8x60K Microarray Kit
G5963-60510	GenetiSure Pre-Screen Array Kit, 8x60K (3 pk)
G5966A	GenetiSure Pre-Screen Unrestricted 8x60K
G5972-60510	GenetiSure Pre-Screen Kit 8x60K - X/Y
G5980-60510	Genycell CGH Microarray Kit, 8x60K
G5982-60510	GenetiSure Cyto 8x60K CGH Kit
G5982B	GenetiSure Cyto 8x60K CGH Slide
G5988B	SurePrint CD PathoChip 8x60K
G5988C	SurePrint CD CGH+SNP 8x60k Prenatal
G5907A	Sureprint OGT CGH+SNP 8x60K 1 slide pack
G5907B	Sureprint OGT CGH+SNP 8x60K 3 slide pack
G5907C	Sureprint OGT CGH+SNP 8x60K 5 slide pack
G5907D	Sureprint OGT CGH+SNP 8x60K 10 slide pack
G5909A	Sureprint OGT CGH+SNP 1x1M 1 slide pack
G5909B	Sureprint OGT CGH+SNP 1x1M 3 slide pack
G5909C	Sureprint OGT CGH+SNP 1x1M 5 slide pack
G5909D	Sureprint OGT CGH+SNP 1x1M 10 slide pack
G4125A	SurePrint G3 Custom CGH Microarray 4x180K
G4826A	SurePrint G3 Unrestricted CGH Microarray (4x180K)
G4830A	SurePrint G3 Custom Cyto Array 4x180K
G4857A	SurePrint G3 Unrestricted GE 4x180K
G4862A	SurePrint G3 Custom GE 4x180K
G4864A	SurePrint G3 Custom Exon 4x180K
G4869-60510	SurePrint G3 Cancer CGH+SNP Kit 4x180K
G4884A	SurePrint G3 Custom CGH+SNP 4x180K
G4890-60510	SurePrint G3 Hmn CGH+SNP 4x180K Microarray Kit
G5936A	SurePrint G3 Custom OGT CGH Microarray 4x180K
G5938-60530	CGX™ HD v2, 4 x180K-048718, (2 slide pk)
G5938-60540	CGX™ HD v2, 4 x180K-048718, (4 slide pk)
G5950-60530	CGX™ SNP v2, 4 x180K-048720, (2 slide pk)
G5950-60540	CGX™ SNP v2, 4 x180K-048720, (4 slide pk)
G5951-60510	SurePrint G3 GXCChip + SNP v1.0 4x180K (3 slide pk)
G5954-60510	CGH+SNP, 4 x180K-046984, (2 slide pk)
G5954-60520	CGH+SNP, 4 x180K-046984, (4 slide pk)
G5962-60510	GenetiSure Pre-Screen Array Kit, 4x180K (3 pk)
G5967A	GenetiSure Pre-Screen Unrestricted 4x180K
G5973-60510	GenetiSure Pre-Screen Kit 4x180K - X/Y
G5976A	GenetiSure Unrestricted CGH+SNP (4x180K)
G5983-60510	GenetiSure Cyto 4x180K CGH Kit
G5983B	GenetiSure Cyto 4x180K CGH Slide
G5984-60510	GenetiSure Cyto 4x180K CGH+SNP Kit
G5984B	GenetiSure Cyto 4x180K CGH+SNP Slide
G4449-60520	SurePrint G3 Hmn CGH 4x180K Oligo Microarray Kit
G5905A	Sureprint OGT CGH+SNP 4x180K 1 slide pack
G5905B	Sureprint OGT CGH+SNP 4x180K 3 slide pack
G5905C	Sureprint OGT CGH+SNP 4x180K 5 slide pack
G5905D	Sureprint OGT CGH+SNP 4x180K 8 slide pack
G5905E	Sureprint OGT CGH+SNP 4x180K 10 slide pack
G5904A	Sureprint OGT CGH 4x44K 1 slide pack
G5904B	Sureprint OGT CGH 4x44K 3 slide pack
G5904C	Sureprint OGT CGH 4x44K 5 slide pack
G5904D	Sureprint OGT CGH 4x44K 10 slide pack
G4860C	SurePrint G3 Custom Microarray 12x
G4132A	SurePrint G3 Custom HT Microarray CGH 16x25K
G4132B	Sureprint G3 Custom HT Microarray CGH+SNP 16x25K
G4133A	SurePrint G3 Custom HT Microarray CGH 24x13k

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

Uses advised against : Not for use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +353 1 901 4670

SECTION 2: Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

Product definition : Mixture (encapsulated in article)

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

H315	SKIN CORROSION/IRRITATION	Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation)	Category 3

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: > 60%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary statements

Prevention : P280 - Wear protective gloves. Wear eye or face protection.
P261 - Avoid breathing dust.
P264 - Wash thoroughly after handling.

Response : P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Sodium silicate

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SECTION 2: Hazards identification

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

3.1 Substances : Mixture (encapsulated in article)

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Sodium silicate	EC: 239-981-7 CAS: 15859-24-2	≥90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]

Type

☒ Substance classified with a health or environmental hazard

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : ☒ Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : ☒ Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid measures

- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed**Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : No specific fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
metal oxide/oxides

5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 5: Firefighting measures

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** :  No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing dust. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up** :  Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Protective measures** :  Put on appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid contact with eyes, skin and clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- Storage** :  Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Not available.

PNECs

Not available.

8.2 Exposure controls

Appropriate engineering controls

:  Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

:  Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

:  Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

- Physical state** : Solid.
- Colour** : Not available.
- Odour** : Not available.
- 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/flammability limit** : Not applicable.
- Flash point** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- pH** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.

Solubility	Media	Result
	water	Insoluble

- Partition coefficient: n-octanol/water** : Not applicable.
- Vapour pressure** : Not available.
- Relative density** : Not available.
- Relative vapour density** : Not applicable.

Particle characteristics

- Median particle size** : Not available.

9.2 Other information**9.2.1 Information with regard to physical hazard classes**

- Explosive properties** : Not available.
- Oxidising properties** : Not available.

9.2.2 Other safety characteristics

- Evaporation rate** : Not available.

SECTION 9: Physical and chemical properties

Physical/chemical properties comments : Not available.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates
N/A

Skin corrosion/irritation

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information**Carcinogenicity**

Conclusion/Summary : Not available.
[Product]

Reproductive toxicity

Conclusion/Summary : Not available.
[Product]

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
 Sodium silicate	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Eye contact :  Causes serious eye irritation.
Inhalation :  May cause respiratory irritation.
Skin contact :  Causes skin irritation.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :  Adverse symptoms may include the following:
 pain or irritation
 watering
 redness
Inhalation :  Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
Skin contact :  Adverse symptoms may include the following:
 irritation
 redness
Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.
[Product]
General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Conclusion/Summary : The product does not meet the criteria to be considered as having endocrine disrupting
[Product] properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.
[Product]

12.2 Persistence and degradability

Not available.
Conclusion/Summary : Not available.
[Product]

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient
Not available.

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
Sodium silicate	No	No	No	No	No	No	No

Mobility : Not available.
Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Sodium silicate	No	No	No	No	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
Sodium silicate	No	No	No	No	No	No	No

Conclusion/Summary : The product does not meet the criteria to be considered as a PBT or vPvB.
Regulation (EC) No. 1272/2008 [CLP]

12.6 Endocrine disrupting properties

Conclusion/Summary : The product does not meet the criteria to be considered as having endocrine disrupting
[Product] properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal :  Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. The generation of waste should be avoided or minimised wherever possible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste :  The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions :  This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.

Other EU regulations

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- | | |
|--------------------------------|--|
| Australia | : All components are listed or exempted. |
| Canada | : At least one component is not listed in DSL but all such components are listed in NDSL. |
| China | : All components are listed or exempted. |
| Eurasian Economic Union | : Russian Federation inventory : All components are listed or exempted. |
| Japan | : Japan inventory (CSCL) : All components are listed or exempted.
Japan inventory (ISHL) : All components are listed or exempted. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : Not determined. |
| Republic of Korea | : All components are listed or exempted. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : Not determined. |
| Turkey | : All components are listed or exempted. |
| United States | : All components are active or exempted. |
| Viet Nam | : All components are listed or exempted. |

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

 Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
B = Bioaccumulative
BCF = Bioconcentration Factor
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
M = Mobile
N/A = Not available
P = Persistent
PBT = Persistent, Bioaccumulative and Toxic
PMT = Persistent, Mobile and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SGG = Segregation Group
T = Toxic
vB = Very Bioaccumulative
vM = Very Mobile
vP = Very Persistent
vPvB = Very Persistent and Very Bioaccumulative
vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

 H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
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Full text of classifications [CLP/GHS]

 Eye Irrit. 2 Skin Irrit. 2 STOT SE 3	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Notice to reader

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