# SAFETY DATA SHEET

Nanographene Graphene Oxide

NANOGRAPHENEX

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

1.1 Product identifier	Graphene Oxide,2-4 Layer,Dia: 8µm SA:450 m2/gr
Product name	:
Product number	: GX01GP0102
CAS number	: 7782-42-5
Other means of identification	: Not available.

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

#### **Product use**

Graphene oxide (GO) is obtained by manipulatinging graphite with oxidisers, and results in a compound of carbon, oxygen, and hydrogen in variable ratios. The structure and properties of Graphene Oxide (GO) are dependent on the particular synthesis method and degree of oxidation but it still preserves the layer structure of the parent graphite. GO has a notable advantage by comparison with other 2d materials (such as graphene) due to be easily dispersed within solution; allowing for processing at high concentrations. This has opened it up for use in applications such as optical coatings, transparent conductors, thin-film batteries, chemical resistant coatings, water purification, and many more. We supply Grahene Oxide to fulfill our customers' needs.

#### 1.3 Details of the supplier of the safety data sheet

NanographeneXNanotechnology Ltd. 34-35 Hatton Gardenn Holborn, London EC1N 8DX. UK Tel.: +44 (0)203 432 22 47. e-mail address of person : victoria@nanographenex.com responsible for this SDS

#### 1.4 Emergency telephone number

Supplier	
Telephone number	: +44 203 432 22 47 (01.30-10.00 CET)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	: Not applicable.
Date of issue/Date of revision	: 18/02/2021 Date of previous issue : 17/02/2021

SECTION 2: Hazards identification : Not applicable. **Supplemental label** elements **Annex XVII - Restrictions** : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles 2.3 Other hazards Substance meets the : Not applicable. criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII Substance meets the : Not applicable. criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : Fine dust clouds may form explosive mixtures with air. not result in classification

NANOGRAPHENEX

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

3.1 Substances	
----------------	--

: Graphene	9
------------	---

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Graphene Oxide	CAS: 7782-42-5	N/A	Not classified.	[A]

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.

<u>Type</u>

[A] Constituent

[B] Impurity

[C] Stabilising additive

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

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</li> </ul>
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.
4.2 Most important sympton	ns and effects, both acute and delayed
Potential acute health effe	<u>cts</u>

Eye contact	<ul> <li>Exposure to airborne concentrations above statutory or recommended exposure</li> </ul>
	limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Date of issue/Date of revision : 18/02/	2021 Date of p	revious issue	17/02/2021	Version	:1.1	2/11
---	----------------	---------------	------------	---------	------	------

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

Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	
<u>Over-exposure signs</u>	<u>s/symptoms</u>	
Eye contact	: Adverse symptoms may include the following: irritation redness	
Inhalation	<ul> <li>Adverse symptoms may include the following: respiratory tract irritation coughing</li> </ul>	
Skin contact	: No specific data.	
Ingestion	: No specific data.	

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

_		
5.1 Extinguishing media		
Suitable extinguishing media	Use dry chemical, $CO_2$ , water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	Do not use water jet.	
5.2 Special hazards arising fr	he 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: carbon dioxide carbon monoxide	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incide there is a fire. No action shall be taken involving any personal risk or without su raining.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained preathing 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 chemical incidents.	;)
Additional information (Explosibility)	Not considered to be a product presenting a risk of explosion.	

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, prot	ective 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	<ul> <li>If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.</li> <li>See also the information in "For non-emergency personnel".</li> </ul>

NANOGRAPHENEX

NANOGRAPHENEX

#### **SECTION 6: Accidental release measures**

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 f	or containment and cleaning up
Small spill	<ul> <li>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.</li> </ul>
Large spill	: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.
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

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. 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)

Section 7. Handling and storage: The information in this section contains generic advice and guidance.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

NANOGRAPHENEX

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

documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

#### **PNECs**

No PNECs 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 measured	<u>ires</u>
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	<ul> <li>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: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.</li> <li>Recommended: Wear safety glasses with side protection in accordance with EN 166.</li> </ul>
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	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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. <b>Recommended:</b> Particle filter device (DIN EN 143), Filter type: P2.
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**

.1 Information on basic physical	a	nd chemical properties
<u>Appearance</u>		
Physical state	4	Not avaible.
Colour	4	Black.
Odour	4	Odorless
Odour threshold	4	Not available.
рН	4	Not available.
Melting point/freezing point	1	3652-3697°C
Initial boiling point and boiling range	:	Not available.
Flash point	:	Not available.
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not applicable.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Not available.
Vapour density	1	Not available.
Relative density at °C	1	1.9-2.2 g/cm3
Solubility(ies)	1	Not available.
Solubility in water	1	Insoluble.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	1	Not available.
Explosive properties	1	Not considered to be a product presenting a risk of explosion
Oxidising properties	1	Not expected based on structure.

#### 9.2 Other information

No additional information.

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	: Avoid dust generation.				
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising agents, reducing agents.				
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

Product/ingredient name	Result	Species	Dose	Exposure	Remarks
Graphene Oxide	LD50 Oral [OECD 420]	Mouse - Male, Female	>5000 mg/kg	-	Mortality: None.

# Conclusion/Summary

: Based on available data, the classification criteria are not met.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Remarks
Graphene Oxide	Skin - Non-irritating to the skin. [OECD 404]	Rabbit	-	-	72 hours	-
	Eyes - Non-irritating to the eyes. [OECD 404]	Rabbit	-	-	72 hours	-

#### **Conclusion/Summary**

	· ·	
Skin		: E

: Based on available data, the classification criteria are not met.

: Based on available data, the classification criteria are not met.

#### **Sensitisation**

Eyes

Product/ingredient name	Route of exposure	Species	Result	Remarks
Graphene Oxide	skin	Guinea pig	Not sensitizing [OECD 406]	-

#### **Conclusion/Summary**

Skin

: Based on available data, the classification criteria are not met.

#### Mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
Graphene Oxide	OECD 476	Experiment: In vitro Subject: Mammalian- Animal	Negative	-
Conclusion/Summary	: Based on availa	ble data, the classification of	riteria are not met.	
Carcinogenicity				
Conclusion/Summary	: Not available.			
Reproductive toxicity				
Conclusion/Summary	: Not available.			
<u>Feratogenicity</u>				
Conclusion/Summary	: Not available.			
Specific target organ tox	<u>icity (single exposure)</u>	1		
Not available.				
Specific target organ tox	icity (repeated exposu	ure)		
Not available.				
Aspiration hazard				

# Information on likely routes : Not available. of exposure

Potential acute health effects

Date of issue/Date of revision

NANOGRAPHENEX

# **SECTION 11: Toxicological information**

Eye contact	<ul> <li>Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.</li> </ul>
Inhalation	<ul> <li>Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.</li> </ul>
Skin contact	: No known significant effects or critical hazards.
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: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

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

<u>Short term exposure</u>	
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

Result	Species	Dose	Exposure	Remarks
Sub-acute NOAEL Inhalation Dusts and mists [OECD 412]	Rat - Male	≥1.88 mg/m³	28 days; 5 days per week	-
: Based on available	e data, the cla	ssification crite	ria are not me	et.
: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.				
: No known significant effects or critical hazards.				
: No known significant effects or critical hazards.				
: No known significant effects or critical hazards.				
: No known significa	ant effects or o	critical hazards		
: No known significa	ant effects or (	critical hazards		
	Sub-acute NOAEL Inhalation Dusts and mists [OECD 412] : Based on available : Repeated or prolo : No known significa : No known significa : No known significa : No known significa	Sub-acute NOAEL       Rat - Male         Inhalation Dusts and       mists [OECD 412]         : Based on available data, the clate       Repeated or prolonged inhalation         : No known significant effects or of       No known significant effects or of         : No known significant effects or of       No known significant effects or of         : No known significant effects or of       No known significant effects or of	Sub-acute NOAEL       Rat - Male       ≥1.88 mg/m³         Inhalation Dusts and       mists [OECD 412]       ≥1.88 mg/m³         : Based on available data, the classification crite       Repeated or prolonged inhalation of dust may         : No known significant effects or critical hazards       No known significant effects or critical hazards         : No known significant effects or critical hazards       No known significant effects or critical hazards         : No known significant effects or critical hazards       No known significant effects or critical hazards	Sub-acute NOAEL       Rat - Male       ≥1.88 mg/m³       28 days; 5 days per week         Inhalation Dusts and mists [OECD 412]       Rat - Male       ≥1.88 mg/m³       28 days; 5 days per week         : Based on available data, the classification criteria are not met       Repeated or prolonged inhalation of dust may lead to chroni       No known significant effects or critical hazards.         : No known significant effects or critical hazards.

#### Other information

: Not available.

# **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure	Remarks
Graphene Oxide	Acute EC50 62.2 mg/l [OECD 201]	Algae - Chlorella pyrenoidosa	96 hours	-
	Acute EC50 16 mg/l [OECD 202]	Daphnia - Daphnia magna	48 hours	-

Conclusion/Summary based on available data, the classification criteria are not met.

: 17/02/2021

8/11

NANOGRAPHENEX

# **SECTION 12: Ecological information**

# 12.2 Persistence and degradability

- Conclusion/Summary
- : The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
12.5 Results of PBT and v PBT	<ul> <li>PvB assessment</li> <li>Not applicable.</li> <li>P: Not available. B: Not available.</li> </ul>

	· Not applicable.
	P: Not available. B: Not available. T: Not available.
vPvB	: Not applicable.
	vP: Not available. vB: Not available.

#### **12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

#### **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. 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. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
	The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
Hazardous waste	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
Special precautions	This material and its container must be disposed of in a safe way. 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**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
Date of issue/Date of revi	ision : 18/02/202	<ul><li>Date of previous issue</li></ul>	: 17/02/2021	Version : 1.1 9/1

NANOGRAPHENEX

# SECTION 14: Transport information

14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	Marine Pollutant: No	No.

# 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 Annex II of Marpol and the IBC Code

#### : Not applicable.

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

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Other EU regulations**

Ozone depleting substances (1005/2009/EU) Not listed.

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

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

#### **National regulations**

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

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



# **SECTION 15: Regulatory information**

Europe	: This material is not listed.
Taiwan	: This material is listed or exempted.

# **15.2 Chemical safety** assessment

: Not yet complete.

# **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
	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
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution) PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RID = The Regulations concerning the International Carriage of Dangerous Goods by
	Rail
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Not classified.	

#### Full text of abbreviated H statements

Not applicable.

#### Full text of classifications [CLP/GHS]

Not applicable.

Date of printing	: 18/02/2021
Date of issue/ Date of revision	: 18/02/2021
Date of previous issue	: 17/02/2021
Version	: 1.1
<b></b>	

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.