	SAFETY	DATA SHEET
QEMETICA	pursuant to Hazardous Product Regulations 2015	
	-	Amorphous Silica N0142
Date: 18.03.2025	Revision: -	Page/pages: 1/12

SECTION 1: Identification

Product name:	Synthetic Amorphous Silica		
Product code:	N0142		
Other means of	Flo-Gard: All grades; Hi-Sil: All grades; Lo-Vel 27; Lo-Vel		
identification:	29; Lo-Vel 39A; Lo-Vel 275;		
	Lo-Vel 2000; Lo-Vel 2003; Lo-Vel 6000; Lo-Vel 6200; Lo- Vel HSF; Silene 732D		
	Vertisf, Shene 732D		
	According to REACH-Regulation (EC) 1907/2006 this		
	substance contains nanoforms (nano structured). The		
	product does not fall under the definition of "engineered		
	nanomaterial" according to the food information regulation		
Product type:	(EU) 1169/2011. Powder.		
	of the substance or mixture and uses advised against		
Product use:	Industrial applications.		
Use of the			
substance/mixture:	Additive		
Uses advised against:	Not applicable		
Manufacturer:	QEMETICA US Silica LLC		
	3150 Pete Manena Road,		
	Westlake, LA 70669, USA		
	Customer Service: 1-800-243-6745		
	QEMETICA NL Silica B.V.		
	Valgenweg 1-3, 9936 HV Farmsum		
	The Netherlands		
	Postal Adress: P.O. Box 181, 9930AD Delfzijl, The Netherlands		
	Customer Service: +31-596-676710		
	Technical Service: +31-596-676710		
E-mail address for the pe	erson responsible for the safety data sheet:		
sds@qemetica.com			
Emergency telephone nu	<u>mber</u>		
Washington DC +1 70	3-741-5970 (CHEMTREC, CCN1020385)		
SECTION 2: Hazards ider	ntification		
Classification of the subs	stance or mixture: Not classified.		
GHS label elements: Signal word:	No signal word.		
Hazard statements:	No known significant effects or critical hazards.		
Precautionary statement			
Prevention:	Not applicable.		
Response:	Not applicable.		
Storage:	Not applicable.		

QEMETICA	SAFETY DATA SHEET pursuant to Hazardous Product Regulations 2015 Synthetic Amorphous Silica N0142	
Date: 18.03.2025	Revision: -	Page/pages: 2/12
Disposal:	Not applicable.	
Supplemental label Elements:	No known significant effects or critical hazards.	

SECTION 3: Composition/information on ingredients

Substance/mixture	Substance		
Product name:	Synthetic Amorphous Silica		
CAS number/other identifiers			

CAS number:

7631-86-9 / 112926-00-8

Ingredient name	Synonyms	%	CAS number
Silica, amorphous, precipitated and gel	Silica gel, precipitated, crystalline-free; Silica gel, precipitated, crystalline free; Amorphous synthetic silica gel; Synthetic amorphous silica, precipitated; Synthetic, crystalline free, silica gel; Silica, amorphous, precipitated and gel.; Silica - Amorphous, gel; Silica, Amorphous Precipitated and gel; Precipitated Silica; Silica gel; silica-amorphous: precipitated silica	80 - 100*	112926-00-8

*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

Contains no detectable crystalline silica (detection limit <0.1% by weight).

SUB codes represent substances without registered CAS Numbers.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact:Protect the non-irritated eye, remove contact lenses. Rinse
the contaminated eyes carefully with water for 10-15
minutes. Avoid strong streams of water – the risk of
damaging the cornea. After rinsing put on an aseptic – sterile

	SAFETY DATA SHEET		
QEMETICA	pursuant to Hazardous Product Regulations 2015 Synthetic Amorphous Silica N0142		
Date: 18.03.2025	Revision: -	Page/pages: 3/12	
Inhalation:	dressing and seek immediate medic Remove to fresh air. Keep person breathing, if breathing is irregula occurs, provide artificial respiration personnel.	cal advice. warm and at rest. If not r or if respiratory arrest	
Skin contact: Ingestion:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. If swallowed, seek medical advice immediately and show the packing or label. Keep person warm and at rest. Do NOT induce vomiting.		
Most important symptom	s/effects, acute and delayed		
Potential acute health ef	fects		
Eye contact:	Exposure to airborne concentrati recommended exposure limits ma eyes.		
Inhalation:	Exposure to airborne concentrati recommended exposure limits ma nose, throat and lungs.		
Skin contact:	No known significant effects or critical hazards.		
Ingestion:	No known significant effects or criti	cal hazards.	
Over-exposure signs/syr Eye contact:		following	
Inhalation:	Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following:		
Skin contact:	respiratory tract irritation coughing No specific data.		
Ingestion:	No specific data.		
•	medical attention and special	treatment needed, if	
necessary			
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.		
Specific treatment: Protection of first- aiders:	No specific treatment No action shall be taken involving ar suitable training.	ny personal risk or without	
See toxicological informatio	•		
SECTION 5: Fire-fighting	measures		
Extinguishing media			

Extinguishing media	
Suitable extinguishingmedia:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known.
Specific hazards arising from the chemical: Hazardous thermal	When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Decomposition products may include the following

	SAFETY DAT	A SHEET
	pursuant to Hazardous Product Regulations 2015	
QEMETICA	Synthetic Amorphous Silica N0142	
Date: 18.03.2025	Revision: - Page/pages: 4/12	
decomposition products: Special protective actions fire-fighters:	for materials: metal oxide/oxides. From ptly 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.	
Special protective equipment for fire-fight	Fire-fighters should we equipment and self-cont	ar appropriate protective ained breathing apparatus

pressure mode.

(SCBA) with a full face-piece operated in positive

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel: For emergency	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 spilled material. Avoid breathing dust. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage,		
responders:	take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".		
Environmental precautions	Avoid dispersal of spilled 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).		
Methods and materials for	or containment and cleaning up		
Small spill:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.		
Large spill:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		
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

Precautions for safe hand	lling	
Protective	Put on appropriate personal protective equipment (see	
measures:	Section 8). Avoid breathing dust.	
Special precautions:	When transferring material into flammable solvents, use proper grounding to avoid electrical sparks.	

	SAFETY DAT	_
QEMETICA	pursuant to Hazardous Product Regulations 2015	
	Synthetic Amorphous Silica N0142	
Date: 18.03.2025	Revision: -	Page/pages: 5/12
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.	

Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: -30°C (-22°F). Store in accordance with local regulations. Store in original container protected from moisture, 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Control parameters

Occupational exosure limits

Ingredient name	Exposure limits
	CA British Columbia Provincial
	(Canada, 6/2022).
	TWA: 1.5 mg/m ³ 8 hours. Form:
Silica, amorphous, precipitated and gel	Respirable
	CA Quebec Provincial (Canada,
	6/2022).
	TWAEV: 6 mg/m ³ 8 hours. Form:
	Respirable dust.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 20 mg/m ³ 15 minutes.
	TWA: 10 mg/m ³ 8 hours.

Consult local authorities for acceptable exposure limits.

consult local authorities			
Recommended	Reference should be made to appropriate monitoring		
monitoring	standards. Reference to national guidance documents for		
procedures:	methods for the determination of hazardous substances will		
	also be required.		
Appropriate	Use only with adequate ventilation. If user operations		
engineering controls:	generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering		
	, 5 5		
	controls to keep worker exposure to airborne contaminants		
	below any recommended or statutory limits.		
Environmental	Emissions from ventilation or work process equipment should		
exposure controls:	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.		

	SAFETY DATA SHEET		
	pursuant to Hazardous Product Regulations 2015		
QEMETICA			
	Synthetic Amor	phous Silica	
	N014		
Date: 18.03.2025	Revision: -	Page/pages: 6/12	
Individual protection mea			
Hygiene measures:	Wash hands, forearms and face	thoroughly after handling	
	chemical products, before eating		
	lavatory and at the end of the v		
	techniques should be used contaminated clothing. Wash co	to remove potentially	
	reusing. Ensure that eyewash stat		
	close to the workstation location.		
Eye/face protection:	Safety glasses with side shields.		
Skin protection:			
Hand protection:	Chemical-resistant, impervious		
	approved standard should be work chemical products if a risk as		
	necessary.		
Body protection:	Personal protective equipment		
	selected based on the task bein		
	involved and should be approv handling this product.	ed by a specialist before	
Other skin protection:	Appropriate footwear and any	additional skin protection	
-	measures should be selected	5	
	performed and the risks involved	,	
Respiratory protection:	a specialist before handling this p Respirator selection must be base		
	exposure levels, the hazards of		
	working limits of the selected		
	exposed to concentrations above		
	must use appropriate, certified in fitted, air-purifying or air-fed read		
	approved standard if a risk as		
	necessary.		

SECTION 9: Physical and chemical properties

•	· ·
Appearance:	
Physical state:	Solid
Color:	White.
Odor:	Odorless.
Odor threshold:	Not available.
pH:	5 to 9
Melting point:	Not available.
Boiling point:	The study does not need to be conducted because the substance is a solid that melts above 300°C (572 °F).
Flash point:	Not applicable. Product does not sustain combustion.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not available.
Flammability:	Substance is not flammable.
Lower and upper	
explosive (flammable) limits:	Substance is not explosive.
(

QEMETICA		ATA SHEET Product Regulations 2015
	-	orphous Silica 142
Date: 18.03.2025	Revision: -	Page/pages: 7/12
Evaporation rate: Vapor pressure: Vapor density: Relative density:	Not applicable. Not applicable. Not applicable. Not available.	
Solubility(ies):	Media	Result
	cold water	Soluble
Water Solubility at room temperature:	>0.02 g/l	
Partition coefficient: noctanol/water:	Not applicable – inorganic subs	stance.
Viscosity Volatility	Not applicable 0% (v/v), 0% (w/w)	
% Solid. (w/w)	100	

SECTION 10: Stability and reactivity

Reactivity

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

Chemical stability

The product is stable.

Possibility of hazardous reactions

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

Conditions to avoid

High temperature (>800 C) treatment (calcining). Avoid alteration of product properties before use. Calcining (which may result in crystalline formation) or mixing with additives may alter toxicological properties.

Refer to protective measures listed in sections 7 and 8.

Incompatible materials

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products

Depending on conditions, decomposition products may include the following materials: metal oxide/oxides

SECTION 11: Toxicological information

Information on toxicological effects

Acute Toxicity:

Product/ingredient name	Result	Species	Dose	Exposure
Silica, amorphous, precipitated and gel	LD50 Dermal LD50 Oral	_	>5000 mg/kg >5000 mg/kg	-
precipitated and ger	LD30 Oral	Rat	>3000 Hig/kg	-

Conclusion/Summary: non-toxic.

QEMETICA SAFETY DATA SHEET pursuant to Hazardous Product Regulations 2015 Synthetic Amorphous Silica N0142

Date: 18.03.2025	Revision: -	Page/pages: 8/12

Irritation/Corrosion:

Conclusion/Summary

Skin: The substance does not meet the classification criteria. Eyes: The substance does not meet the classification criteria.

Respiratory: The substance does not meet the classification criteria...

Sensitization:

Conclusion/Summary

Skin: The substance does not meet the classification criteria.. Respiratory: The substance does not meet the classification criteria..

Mutagenicity:

Conclusion/Summary: The substance does not meet the classification criteria..

Carcinogenicity:

Conclusion/Summary: Unclassifiable as to carcinogenicity in humans.. **Classification:**

Product/ingredient name	OSHA	IARC	NTP
Silica, amorphous, precipitated and gel	-	3	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: +

Not listed/not regulated: -

Reproductive Toxicity:

Conclusion/Summary: The substance does not meet the classification criteria..

Teratogenicity:

Conclusion/Summary: The substance does not meet the classification criteria..

Specific target organ toxicity (single exposure):

Not available.

Specific target organ toxicity (repeated exposure):

Target organs: Contains material which may cause damage to the following organs: upper respiratory tract, eyes, however changes are reversible. The substance does not meet the classification criteria.

Aspiration hazard:

not applicable - inorganic, solid substance.

Information on the likely routes of exposure

Potential acute health effects

Eye contact:	Exposure to airborne concentrations above statutory or recommended exposure 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.
Skin contact:	No known significant effects or critical hazards
Ingestion:	No known significant effects or critical hazards
Over-exposure signs/syn	nptoms
Eye contact:	Adverse symptoms may include the following: irritation redness

	SAFETY DATA SHEET		
	pursuant to Hazardous Product Regulations 2015		
QEMETICA			
GLINLIIOA			
	Synthetic Amorphous Silica N0142		
Date: 18.03.2025	Revision: - Page/pages: 9/12		
Inhalation:	Adverse symptoms may include the following:		
	respiratory tract irritation coughing		
Skin contact:	No specific data.		
Ingestion:	No specific data.		
-	effects and also chronic effects from short and long		
term exposure	-		
Conclusion/Summary:			
	Repeated exposure of the eyes to a low level of dust can		
	produce eye irritation.		
	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.		
	Ingestion may cause nausea, diarrhea and vomiting. This		
	takes into account, where known, delayed and immediate		
	effects and also chronic effects of components from short-		
	term and long-term exposure by oral, inhalation and dermal		
	routes of exposure and eye contact		
<u>Short term exposure</u>			
Potential immediate	See section 4.		
effects:	Cas sation 4		
Potential delayed effects:	See section 4.		
Potential chronic health	effects		
General:	Repeated or prolonged inhalation of dust may lead to chronic		
	respiratory irritation. An epidemiological study was conducted		
	which included 165 precipitated silica workers who had been		
	exposed an average time span of 8.6 years. Of these 165		
	workers, 44 had been exposed for an average of 18 years. No		
	adverse effects were noted in complete medical examinations		
	(including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with		
	smoking and age but not with the degree or duration of dust		
	exposures. Laboratory studies have also been conducted in		
	small animals via inhalation of levels of precipitated silica dust		
	of up to 126 mg/cu.m. per periods from six months to two		
	years. Although precipitated silica was temporarily deposited		
	in the animals' lungs, most of the deposited material was		
	cleared soon after the dust exposure ended. The results of all		
	studies performed by, or known to, Qemetica indicate a very		
	low order of pulmonary activity for synthetic precipitated		
	silicas. Qemetica recommends that persons with breathing problems or lung disease should not work in dusty areas		
	unless a physician approves and certifies their fitness to wear		
	respiratory protection.		
Carcinogenicity:	No known significant effects or critical hazards.		
Mutagenicity:	No known significant effects or critical hazards.		
Reproductive Toxicity:	No known significant effects or critical hazards.		

	SAFETY DAT	TA SHEET
QEMETICA	pursuant to Hazardous Pro	duct Regulations 2015
	Synthetic Amor N014	-
Date: 18.03.2025	Revision: -	Page/pages: 10/12

SECTION 12: Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
	NOEC >1000 ppm	Daphnia - Daphnia magna	24 hours
Silica, amorphous, precipitated and gel	Acute NOEC >10000 ppm Fresh water	Fish	96 hours Static
precipitated and ger	Acute NOEC >10000 ppm	Fish - Brachydanio rerio	4 days Static

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Silica, amorphous, precipitated and gel	-	-	Not readily - it is an inorganic material and does not break down through biological processes like organic substances

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Silica, amorphous, precipitated and gel	-	0	Low

<u>Mobility in soil</u>

Soil/water partition coefficient (KOC): Not available. Other adverse effects (such as hazardous to the ozone layer). The substance does not contribute to ozone layer depletion.

SECTION 13: Disposal considerations

ble. Disposal of this product, solutions and any
ould at all times comply with the requirements of
protection and waste disposal legislation and any
authority requirements. Dispose of surplus and
products via a licensed waste disposal contractor.
ot be disposed of untreated to the sewer unless
with the requirements of all authorities with
ste packaging should be recycled. Incineration or
only be considered when recycling is not feasible.
nd its container must be disposed of in a safe way. ers or liners may retain some product residues.

	SAFETY DATA SHEET	
QEMETICA	pursuant to Hazardous Product Regulations 2015	
GEMETICA	Synthetic Amorphous Silica N0142	
D. 1. 10.02.2025		
Date: 18.03.2025	Revision: -	Page/pages: 11/12
А	void dispersal of spilled material a	and runoff and contact with

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

SECTION 14: Transport information

TDG	IMDG	IATA
Not regulated.	Not regulated.	Not regulated.
-	-	-
-	-	-
-	-	-
No	No	No.
NO.	NO.	NO.
Not applicable.	Not applicable.	Not applicable.
	Not regulated. - - No.	Not regulated. Not regulated. - - - - - - No. No.

Additional information:

TDG: None identified. **IMDG:** None identified. **IATA:** None identified.

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.

Transport in bulk according to IMO instruments:

Special precautions

for user:

Not applicable.

SECTION 15: Regulatory information

National Inventory List

Canada inventory (DSL) All components are listed or exempted.

	SAFETY DATA SHEET	
QEMETICA	pursuant to Hazardous Proc	duct Regulations 2015
	Synthetic Amorphous Silica N0142	
Date: 18.03.2025	Revision: -	Page/pages: 12/12

SECTION 16: Other information

Hazardous Material Information System (U.S.A.)

Health: 1

Flammability: 0

Physical hazards: 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Flammability: 0	Instability: 0
18.03.2025	
EHS	
ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized Syster Labelling of Chemicals IATA = International Air Transport IBC = International Air Transport IMDG = International Maritime Dar LogPow = logarithm of the octanol, MARPOL = International Conventio Pollution From Ships, 1973 as mod ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations	Association ngerous Goods /water partition coefficient n for the Prevention of
	18.03.2025 EHS ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized Syster Labelling of Chemicals IATA = International Air Transport IBC = International Air Transport IBC = International Maritime Dar LogPow = logarithm of the octanol, MARPOL = International Conventio Pollution From Ships, 1973 as mod ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Qemetica, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.