

2500, Parc-Technologique Blvd Quebec (QC) G1P 4S6 Canada

Phone: +1 418.874.0054

Toll Free: +1 877.745.4292 (North America only) Fax: +1 418.874.0355 SiliaFlash®

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SECTION 1: Identification of	the substance/mixture and of the company
Product identifier	Silia <i>Flash</i> ® Irregular Silica Gel, P60, 40 - 63 μm, 60 Å
Product code	R12030B
CAS number	7631-86-9 (or 112926-00-8)
EC number	231-545-4
REACH registration number	01-2119379499-16-***
Formula	SiO ₂
Chemical name	Silica-Amorphous, precipitated (other name: Silicon dioxide, Silica gel, Synthetic Amorphous Silica)
Identified uses	Laboratory chemicals, manufacture of substances.
U.N. Number	Not applicable.
U.N. Dangerous goods class	Non-Regulated material.
Supplier's details	Silicycle Inc. 2500, Parc-Technologique Blvd, Quebec City, QC, Canada G1P 4S6 Tel: 418-874-0054 Fax: 418-874-0355 Info@silicycle.com www.silicycle.com
Emergency telephone number Telephone / Hours of operation	CANUTEC: +1-613-996-6666 or *666 (cellular), 1-888-226-8832 24 hours/day, 7 days/week.

SECTION 2: Hazards identificat	tion
EMERGENCY OVERVIEW Warning: E	Exposure can be irritating to eyes, respiratory system and skin. Harmful by inhalation/ingestion. It's non-flammable solid.
US DOT symbols	Non-Regulated.
WHMIS symbols	Not Controlled.
European and GHS Hazard symbols	
Signal word	Warning, hazard pictogram: GHS07.
GHS Hazard Classification(s) / 29 C	FR §1910.1200
Hazard statements	
H302	Harmful if swallowed.
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. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing dust. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Response	 P304 + P340 + P312 - IF INHALED: Remove victim to fresh air. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing. P332 + P313 - If skin irritation occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazard Symbol(s)	[Xi] Irritant.
Risk Phrases	R36/37/38: Irritating to eyes, respiratory system and skin.
Safety Phrases	S9: Keep container in a ventilated area. S22: Do not breath dust. S24/25: Avoid contact with skin and eyes.



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SECTION 3: Composition/information on ingredients				
Product/ingredient name	CAS#	EINECS#	ICSC#	WT %
Silica-Amorphous, precipitated	7631-86-9	231-545-4	Not Listed.	~100%

- Any concentration shown as a range is to protect confidentiality or is due to batch variation.
- 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.
- Exposure limits: TWA (mg/m³) = 6

SECTION 4: First aid measures	
Description of necessary first aid r	measures
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if necessary.
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.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes.
Ingestion	Wash out mouth with water. Don't induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Most important symptoms/effects,	acute and delayed
Eye contact	Cause serious eye irritation.
Inhalation	May cause respiratory irritation.
Skin contact	Cause skin irritation.
Ingestion	Harmful if swallowed. Irritating to mouth, throat and stomach.
Over-exposure signs/symptoms	
Eye contact	Adverse symptoms may include the following: pain or irritating 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 known significant effects or critical hazards.
Indication of any immediate medic	al 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.
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.



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Extinguishing media

Suitable extinguishing media

Suitable extinguishing media

Specific hazard arising from the chemical

Hazardous thermal decomposition products

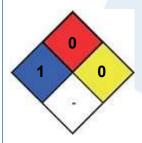
Special protective actions for Fire fighters

Special protective equipment

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face

NFPA RATING SYSTEM

for Fire fighters



Hazard scale

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Severe
*	Chronic hazard

piece operated in positive pressure mode.

Specific Hazard

Opcomo mazara	
OXI	Oxidizer
ACID	Acid
ALK	Alkali
COR	Corrosive
₩	Use no water
*	Radiation hazard
-	None

HMIS RATING SYSTEM

1	HEALTH
0	FLAMMABILTITY
0	PHYSICAL HAZARD
F	PERSONAL PROTECTION

Protective Equipment Index

Α	Safety glasses
В	Safety glasses + Gloves
С	Safety glasses + Gloves + Protective apron
D	Face shield + Gloves + Protective apron
E	Safety glasses + Gloves + Dust respirator
F	Safety glasses + Gloves + Protective apron + Dust respirator
G	Safety glasses + Gloves + Vapor respirator
Н	Splash goggles + Gloves + Protective apron + Vapor respirator
ı	Safety glasses + Gloves + Dust respirator + Vapor respirator
J	Splash goggles + Gloves + Protective apron + Dust respirator + Vapor respirator
K	Airline mask/hood + Gloves + Full suit + Boots
Х	Ask your supervisor for special handling instructions

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

r ersonar precautions, protecti	ve 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. Puton appropriate personal protective equipment.
For emergency responders	If specialized 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".
Environmental precautions	Avoid dispersal of split material and runoff and contact with soil, waterways, drain and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for contain	ment and cleaning up
Small spill	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.
Large spill	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, watercourses, basements and confined areas. Vacuum or sweep up materials and place in a designated, labelled waste container. Avoid creating dusty

emergency contact information and section 13 for waste disposal.

conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for



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SECTION 7: Handling and storage Precautions for safe handling Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid Protective measures breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Advice on general occupational 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 hygiene before entering eating areas. See also Section 8 for additional information on hygiene measures. Conditions for safe storage, Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and wellventilated, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed including any incompatibilities 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.

Control parameters			
Chemical name	CAS# ACGIH TWA		
Silica-Amorphous, precipitated	7631-86-9	10 (mg/m³)	6 (mg/m³)
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.		
Environmental exposure controls	In some case, dust collection filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Individual protection measures			
Hygiene measures	Ensure that eyewash stations and safety showers are close to the workstation location. 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.		
Eye/face protection	Safety eyewear should be used when there is a likelihood of exposure. Recommended: If operating conditions cause high dust concentrations to be produced, use dust goggles.		
Skin protection			
Hand protection	Use gloves appropriate for wor	k or task being performed. Recommended:	Natural rubber (latex).
Body protection		for the body should be selected based on the specialist before handling this product. Record	ne task being performed and the risks involved mmended: Lab coat.
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.		
Respiratory protection	Not required under normal conditions of uses. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure an MSHA/NIOSH-approved respirator or equivalent is used.		

SECTION 9: Physical and cher	nical properties
Physical state	Solid (powder).
Color	White.
Melting point/freezing point	1710°C
Initial boiling point and boiling range	2230°C
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative (g/L)	580
Solubility(ies)	Insoluble.



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Reactivity	Product is stable.
Chemical stability	The product is stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Avoid moisture and contact with incompatible materials.
Incompatible materials	Strong base, Hydrogen fluoride (HF).
Hazardous decomposition products	No data available.

SECTION 11: Toxicological infe	ormation	
Information on toxicological effect	is the second se	
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Dermal and Inhalation.	
Potential acute health effects		
Inhalation	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.	
Ingestion	Harmful if swallowed. Irritating to mouth, throat and stomach.	
Skin contact	Causes skin irritation by dehydration.	
Eye contact	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.	
Symptoms related to the physical,	chemical and toxicological characteristics	
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing.	
Ingestion No known significant effects or critical hazards.		
Skin contact	Adverse symptoms may include the following: irritation, redness.	
Eye contact	Adverse symptoms may include the following: irritation redness.	
Delayed and immediate effects and	d also chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	elayed effects Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effects		
General	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.	
Carcinogenicity	No known significant effects or critical hazards.	
Mutagenicity	Mutagenicity No known significant effects or critical hazards.	
Teratogenicity	No known significant effects or critical hazards.	
Developmental effects	Developmental effects No known significant effects or critical hazards.	
Fertility effects	No known significant effects or critical hazards.	
Numerical measures of toxicity	Acute oral (LD50): > 15000 mg/kg [Rat]. Acute dermal (LD50): >2000 mg/kg [Rabbit]. Acute toxicity dust (LC50): >2,2 mg/l 1 hour [Rat]	



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SECTION 12: Ecological information		
Toxicity and aquatic life	city and aquatic life Ecotoxicity in water (LC50): 440 mg/l 72 hours [Algae], 5000 mg/l 96 hours [Fish], 7600 mg/l 48 hours [Daphnia]	
Persistence and degradability	Not available.	
Bio accumulative potential	Not available.	
Effect of material on plants or animals		
Soil/water partition coefficient (Koc) Not available.		
Other adverse effects	No known significant effects or critical hazards.	

SECTION 13: Disposal considerations		
Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste products residue should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.	
Hazardous waste	Within the present knowledge of the supplier, this product is regarded as not hazardous waste.	
Packaging		
Methods of dispos	The generation of waste should be avoided or minimized wherever possible. Waste when packaging should be recycled. Incineration or landfill should only be considered. Recycling is not feasible.	
Special precautio	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, waters, drains and sewers.	

SECTION 14: Transport information					
	ADR/RID	ADN/ADNR	IMDG	IATA	DOT
UN number	Not regulated.				
UN proper shipping name	Not dangerous good				
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

PG*: Packing group; Exemption to the above classification may apply.

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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code.



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SECTION 15: Regulatory inform	nation	
15.1 Safety, health and environmen	ntal regulations/legislation specific for the substance or mixture	
U.S. Federal regulations		
United States inventory (TSCA 8b)	Silica gel (silica), CAS no 7631-86-9 is listed.	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	This substance is not listed.	
Clean Air Act Section 602 Class I Substances	This substance is not listed.	
Clean Air Act Section 602 Class II Substances	This substance is not listed.	
DEA List I Chemicals (Precursor Chemicals)	This substance is not listed.	
SARA 302/304		
Composition/information on ingredients	No products were found.	
SARA 304 RQ	Not applicable.	
SARA 311/312		
Classification	Immediate (acute) health hazard	
SARA 313	No products were found.	
State Regulations		
Massachusetts	Massachusetts This substance is not listed.	
Ney York	This substance is not listed.	
New Jersey	CAS no 112926-00-8 is listed in the New Jersey Right to Know Hazardous Substance List.	
Pennsylvania	CAS no 7631-86-9 is listed in Chapter 323. Hazardous Substance List but not as an Environmental Hazard neither as a Special Hazardous Substance.	
California Prop. 65	This substance is not listed.	
Canada (Canadian lists)		
Canadian NPRI	This substance is not listed.	
CEPA Toxic substances	This substance is not listed.	
Canada Inventory	This substance is not listed.	
European Economic community in	formation	
	This substance is not classified in the Annex I of Directive 67/548/EEC.	
International lists (National invento	pry)	
China	Listed on National Inventory.	
Australia	Listed on AICS.	
Japan	Not listed on Occupational Safety and Health Act, Japan Listed on Chemical Substance Law, Japan; ID no: H27-A-040/C-111A_P	
New Zealand	Not determined.	
Philippines	Not determined.	
Taiwan	Not determined.	
15.2 Chemical Safety Assessment		
For this product an assessment was	not carried out.	



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SECTION 16: Ot	her informa	tion
Date of issue (yyy)	Date of issue (yyyy/mm/dd): 2018/07/11	
Version: 1.1		1.1
Description of Mod	Section 1: Added REACH registration number Section 16: Added Exposure Scenario	
whatsoever for the acc	curacy or comple	rmation contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability eteness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All ds and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only
Exposure Scena	rio 1 (Indus	trial use)
1. Industrial use	e Reagent for	analysis, (Chemical production)
Sectors of end-use	9	
SU 3	3 Industrial uses: Uses of substances as such or in preparations at industrial sites	
SU 9	Manufacture of fine chemicals	
SU10	Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)	
Chemical product	category	
PC19	Removed from PC list and relocated in the technical function list (Table R.12- 15)24.	
PC21	Laboratory chemicals	
Process categorie	s	
PROC 1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.	
PROC 2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent	

PROC 1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.	
PROC 2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions	
PROC 3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition	
PROC 4	Chemical production where opportunity for exposure arises	
PROC 5	Mixing or blending in batch processes	
PROC 8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities 26	
PROC 8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities26	
PROC 9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)	
PROC 10	Roller application or brushing	
PROC 15	Use as laboratory reagent	
Environmental Rel	ease Categories	
ERC 1	Manufacture of the substance	
ERC 2	Formulation into mixture	
ERC 4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)	
ERC 6a	Use of intermediate	
ERC 6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)	
2. Contributing	scenarios: Operational conditions and risk management measures	



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Exposure Scenario 2 (Professional use)		
1. Industrial use	1. Industrial use Reagent for analysis, (Chemical production)	
Sectors of end-use		
SU 22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)	
Chemical product category		
PC21	Laboratory chemicals	
Process categories		
PROC 15	Use as laboratory reagent	
Environmental Release Categories		
ERC 2	Formulation into mixture	
ERC 6a	6a Use of intermediate	
ERC 6b	ERC 6b Use of reactive processing aid at industrial site (no inclusion into or onto article)	
2. Contributing scenarios: Operational conditions and risk management measures		