

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

BROWNELL
L I M I T E D

Trade Name: Brownell Limited
Product No: Indicating Silica Gel (Cobalt Impregnated)
Version No: MCS/104/MSDS - 07 / EN

Revision Date: 08.06.2020
Print Date: 08.06.2020

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

1.1 Product identifier Indicating Silica Gel (Cobalt Impregnated), blue-pink
Trade name or designation of the mixture
Registered number -
Synonyms Issue Amorphous silicon dioxide * synthetic amorphous silica
Date Version 8th June 2020
Number Revision 07
Date Supersedes 17th November 2016

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

Identifier uses Desiccant. For adsorption of moisture and prevention of corrosion and mould growth.
Uses advised against No other uses are advised.

1.3. Details of the supplier of the safety data sheet

Supplier Name: Brownell Limited
Address: Unit 2, Abbey Road Industrial Park,
Commercial Way
Park Royal
London
NW10 7XF
Country UK
Telephone: +44 (0) 208 965 9281
Fax: +44 (0) 208 965 3239
Email: info@brownell.co.uk
Contact: Neil Partridge
Website: www.brownell.co.uk

1.4 Emergency telephone number +44 (0) 20 8838 8408 – (08:00 – 17:00) office hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards			
	Carcinogenicity	Category 1B	H350 – May cause cancer
	Reproductive toxicity	Category 1B	H360F – May damage fertility

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Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 – Harmful to aquatic life with long lasting effects.
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Hazard summary

May cause cancer. Exposure to powder or dusts may be irritating to eyes, nose and throat. May cause reproductive effects. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2 Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Cobalt (II) Chloride

Hazard pictograms



Signal word

Danger

Hazard statement

H350

May Cause Cancer

H360F

May damage fertility

H412

Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P273

Aviod release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Response

P308+P313

IF exposed or concerned: get medical advice/attention.

Storage

P405

Store locked up

Disposal

P501

Dispose of contents/container (in accordance with related regulations).

Supplemental label information

EUH208 – Contains Cobalt (II) Chloride. May produce an allergic reaction.

2.3 Other hazards

Slippery, can cause falls if walked on.

This product has the potential for generation of respirable dust during handling and use. Some of the components of this product are potentially hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected.

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SECTION 3: Composition/information on ingredients

3.2 Mixture

General information

	Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
	Amorphous silica	>98	7631-86-9 231-545-4	-	-	
	Classification					
	Cobalt (II) Chloride	<0.5	7646-79-9 231-589-4	-	027-004-00-5	M=10
	Classification:		Acute Tox. 4; H302, Skin Sens. 1;H317, Resp. Sens. 1;H334, Muta. 2;H341, Aquatic Acute 1;H400, Aquatic Chronic 1;H410			1

List of abbreviations and symbols that may be used above

M: M-factor

PBT: persistent, bioaccumulative substance.

vPvB: very persistent and very bioaccumulative substance.

#: This substance has been assigned Community workplace exposure limit(s).

Note 1: Refer to CLP Regulation 1272/2008, section 1.1.3.1 (Notes relating to the identification, classification and labelling of substances).

Composition comments

The full text for all H-statements is displayed in section 16.

SECTION 4: First Aid measures

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

4.1 Description of first aid measures

Inhalation

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye Contact

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

If ingestion of a large amount does occur, seek medical attention.

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

Dust may irritate the respiratory tract, skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

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SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Suitable extinguishing media	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	Self-container breathing apparatus and full protective clothing must be worn in case of fire.
Special protective equipment for firefighters	
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel	In case of spills, beware of slippery floors and surfaces. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
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6.3 Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.
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Large Spills: Wet down with water and pile for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4 Reference to other sections For personal protection, see section 8.
For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for sale handling

Do not handle until all safety precautions have been read and understood. Wear appropriate personal protective equipment. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Forms smooth, slippery surfaces on floors, posing an accident risk. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust from this material. Avoid contact with skin and eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Avoid dust formation. Store in original tightly closed container. Store in a well-ventilated place. Keep container tightly closed. Guard against dust accumulation of this material. Store away from incompatible materials (see Section 10 of the SDS).

7.3 Specific end use(s)

The specified uses for this material are shown in section 1 of this document.

SECTION 8: Exposure controls/personal protection

8.1. Control Parameters

Occupational exposure limits			
UK. EH40 Workplace Exposure Limits (WELs)			
Additional components	Type	Value	Form
General dust	TWA	4 mg/m ³	Respirable dust
		10 mg/m ³	Inhalable dust

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United Kingdom			
Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m ³ 2.4 mg/m ³	Inhalable dust Respirable dust
Cobalt (II) Chloride (CAS 7646-79-9)	TWA	0.1 mg/m ³	Cobalt and Cobalt Compounds EH40

Biological limits values
Recommended monitoring
procedures

No biological exposure limits noted for the ingredient(s).
Follow standard monitoring procedures.

Derived no-effect level (DNEL)					
	Components	Type	Route	Value	Form
	Amorphous silica (CAS 7631-86-9)	Industry	Inhalation	4 mg/m ³	Respirable fraction
	Cobalt (II) Chloride (CAS 7646-79-9)	Consumer	Inhalation	13.9 µg/m ³	Long term Local effects
			Oral	20.9 µg/kg bw/day	Long term Systemic effects
		Industry	Inhalation	88.1 µg/m ³	Long term Local effects

Predicted no effect concentrations (PNECs)					
	Components	Type	Route	Value	Form
	Cobalt (II) Chloride (CAS 7646-79-9)	Not applicable	Sewage sludge	0.37 mg/l	
			Soil	10.9 mg/kg	Dry weight
			Water	2.36 µg/l	Marine water
			Water	0.51 µg/l	Freshwater

8.2 Exposure Controls

Appropriate engineering
controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

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Individual protection measures, such as personal protective equipment

General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields. Use tight fitting goggles if dust is generated.
Skin protection	
Hand protection	Suitable gloves can be recommended by the glove supplier. Use protective gloves made of: PVC or other plastic material gloves (EN374)
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.
Respiratory protection	Wear respirator with dust filter. Respirator type FFP2 or FFP3 (EN 149:2001). Dusk mask.
Thermal hazards	None known.
Hygiene measures	Do not breathe dust. Avoid contact with eyes. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Dry flowable granules.
Physical state	Solid.
Form	Granules Beads
Colour	Blue – pink
Odour	Not available
Odour threshold	Not available
pH	> 3.5 as a suspension @ 100g/l in water
Melting point/freezing point	> 1710°C (> 3110°F)
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not applicable
Flammability limit – upper (%)	Not applicable

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Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density	Not available
Solubility(ies)	
Solubility (water)	Insoluble
Solubility (other)	Not available
Partition coefficient (n-octanol/water)	Not applicable
Auto-Ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2. Other information

Bulk density	700.00 – 750.00 kg/m ³
Flammability	Not applicable
Percent volatile	0% estimated

SECTION 10: Stability and reactivity

10.1 Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2 Chemical stability	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	Heat is evolved on contact with water Avoid spread of dust. Contact with incompatible materials.
10.5 Incompatible materials	None known
10.6 Hazardous decomposition products	No hazardous decomposition products are known.

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SECTION 11: Toxicological Information

General Information	Occupational exposure to the substance or mixture may cause adverse effects. Data shown in this section has been published in the substance(s) REACH dossier Dust may be slightly irritating to eyes and respiratory tract. Repeated exposure may lead to respiratory sensitisation reactions, producing an asthma-like condition. Prolonged skin contact may cause skin irritation and/or dermatitis.
Information on likely routes of exposure	
Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin Contact	Dust or powder may irritate the skin
Eye Contact	Dust in the eyes will cause irritation
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Dusts may irritate the respiratory tract, skin and eyes.

11.1 Information on toxicological effects

Components	Species	Test results
Amorphous silica (CAS 7631-86-9)		
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg Occluded (dermal)
Inhalation		
LC0	Rat	>= 0.69 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
Cobalt (II) Chloride (CAS 7646-79-9)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg bw
Components	Species	Test results
Oral		
LD50	Rat	> 766 mg/kg bw

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Based on available data, the classification criteria are not met. Not irritating: OECD 404
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met. Dust in the eyes will cause irritation.
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation	May cause an allergic skin reaction. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

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Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	This product contains trace levels (<0.5%) of a potential carcinogen. May cause cancer. IARC Monographs. Overall Evaluation of Carcinogenicity Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	May damage fertility.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Contains a substance which causes risk of hazardous effects to the environment.

Components	Species	Test results
Amorphous silica (CAS 7631-86-9)		
Aquatic		
Algae	NOEL	> 10000 mg/l, 72 hours
Crustacea	EC50	> 10000 mg/l, 24 hours
Fish	LC0	> 10000 mg/l, 96 hours
Cobalt (II) Chloride (CAS 7646-79-9)		
Aquatic		
Crustacea	EC50	1.11 mg/l, 48 hours
Fish	LC50	0.569-3.474 mg/l, 96 hours (Oncorhynchus mykiss)

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability The product solely consists of inorganic compounds which are not biodegradable. The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential Does not bioaccumulate.

Partition coefficient n-octanol/water (log Kow) Not applicable. (inorganic substance)

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Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil Insoluble and thus presents a low mobility in most soils

12.5. Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6 Other adverse effects

Based on available data, there is no evidence of significant toxicity of Synthetic Amorphous Silica to environmental organisms.
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Residual waste	Material should be recycled if possible. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Where possible recycling is preferred to disposal or incineration. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods /information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

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

General information IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA
Cobalt (II) Chloride (CAS 7646-79-9)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended.

Cobalt (II) Chloride (CAS 7646-79-9)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Cobalt (II) Chloride (CAS 7646-79-9)

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

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Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding.

Not regulated.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Cobalt (II) Chloride (CAS 7646-79-9)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Cobalt (II) Chloride (CAS 7646-79-9)

Directive 94/33/EC on the protection of young people at work

Cobalt (II) Chloride (CAS 7646-79-9)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Revision information SECTION 8: Exposure controls/personal protection: Appropriate engineering controls

Training information Follow training instructions when handling this material.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.

MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.