Safety data sheet

According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and US GHS

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Soldering Grain
Item# 8302310

Chemical Name **Mixture (Silicon Carbide)**
Trade Name Soldering Grain
CAS No. **409-21-2**
EINECS No. **206-991-8**
REACH Registration No. **01-2119402892-42-0012**

1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against

Identified Use(s) Soldering
Uses Advised Against Users are recommended to seek further advice.

1.3 Details Of The Supplier Of The Safety Data Sheet

Paul H. Gesswein & Co., Inc.
201 Hancock Ave., Bridgeport, CT 06605
Phone: 203-366-5400
FAX: 203-366-3953
email: info@gesswein.com
www.gesswein.com

1.4 Emergency Telephone Number – ChemTel
(800)255-3924 (USA/Canada), 813-248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification Of The Substance Or Mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 (CLP)

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These Statements are not applicable for the CLP regulation)1272/2008/EC) in the EU: H351

Hazard Pictogram(s)  GHS08 Health hazard

Carc. 1A H350: May cause cancer. Route of exposure: Inhalative.
The product is not classified as hazardous according to the CLP regulation.

2.1.2 Classification according to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol  

Risk Phrases R49: May cause cancer by inhalation.
R48: Danger of serious damage to health by prolonged exposure

Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label Elements

2.2.1 Label Elements *According to Regulation (EC) No. 1272/2008 (CLP)*

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The substance is classified and labelled according to the CLP regulation.

Hazard Pictogram(s)  GHS08

Signal Word(s) **DANGER**

Hazard-determining components of labelling: Quartz (SiO2)

Hazard Statement(s) H350: May cause cancer. Route of exposure: Inhalative.

Precautionary Statement(s) P281: Use personal protective equipment as required.
P202: Do not handle until all safety precautions have been read and understood.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P501: Dispose of contents/containers in accordance with local/regional/national/international regulations.

Additional information Restricted to professional users.

Hazard description:

WHMIS-symbols:  D2A – Very toxic material causing other toxic effects

NFPA ratings (scale 0 - 4) 

Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4) 

Health = *1
Fire = 0
Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances 14808-60-7 Quartz (SiO2)

2.3 Other Hazards

Results of PBT and vPvB assessment **PBT:** Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
CAS No. Description: 409-21-2 silicon carbide
Identification number(s)
EC number: 206-991-8
Dangerous Components:

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)
Quartz (SiO2)	<5	14808-60-7	238-878-4	NA	 3.6/1A H350

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

General Information: Take affected persons out into the fresh air.

After Inhalation: Provide oxygen treatment if affected person has difficulty breathing. Supply fresh air; consult doctor in case of complaints.

After Skin Contact: Brush off loose particles from skin. If skin irritation is experienced, consult a doctor. Wash with soap and water.

After Eye Contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After Swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

4.2 Most Important Symptoms And Slight irritant effect on eyes. Slight irritant effect on skin and mucous membranes.

	Effects, Both Acute And Delayed	Breathing difficulty. Coughing.
	Hazards	May cause cancer. Route of exposure: Inhalative. Route of exposure: Inhalative.
4.3	**Indication Of The Immediate Medical Attention And Special Treatment Needed**	No further relevant information available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1	**Extinguishing Media**	
	Suitable Extinguishing Media	Use fire extinguishing methods suitable to surrounding conditions.
	Unsuitable Extinguishing Media	None.
5.2	**Special Hazards Arising From The Substance Or Mixture**	No further relevant information available.
5.3	**Advice for Fire-Fighters**	Wear self-contained respiratory protective device. Wear fully protective suit.
	Additional Information	No further relevant information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal Precautions, Protective Equipment And Emergency Procedures**	Ensure adequate ventilation. Avoid formation of dust. For large spills, use respiratory protective device against the effects of fumes/dust/aerosol. For large spills, wear protective clothing.
6.2	**Environmental Precautions**	Do not allow to enter sewers/ surface or ground water.
6.3	**Methods And Material For Containment And Cleaning Up**	Pick up mechanically. Dispose contaminated material as waste according to item 13. Send for recovery or disposal in suitable receptacles.
6.4	**Reference To Other Sections**	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions For Safe Handling**	Prevent formation of dust. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water. Any unavoidable deposit of dust must be regularly removed. Use only in well ventilated areas.
	Information About Fire – and explosion protection	No special measures required.
7.2	**Conditions For Safe Storage, Including Any Incompatibilities:**	
	Requirements to be Met by Storerooms and Receptacles:	No special requirements.
	Information About Storage in One Common Storage Facility:	Store away from oxidizing agents. Store away from foodstuffs.
	Further information about storage conditions:	None.
7.3	**Specific End Use(s)**	No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace:			
Silicon carbide	409-21-2	PEL (USA)	Long-term value: 15*; 15** mg/m³ Fibrous dust: *total dust; ** respirable fraction
		REL (USA)	Long-term value: 10* 5** mg/m³ *Total dust **Respirable fraction
		TLV (USA)	Long-term value: 10* 3** mg/m³ Fibrous dust: 0,1 f/cc; nonfibrous: *inh., **resp.
		EL (Canada)	Long-term value: 10* 3** mg/m³ *inhalable; **respirable
		EV (Canada)	Long-term value: 10* 3** mg/m³, 0,1 f/cc*** ppm nonfibrous: *inh., **resp.; ***fibrous, resp.
Quartz (SiO2)	14808-60-7	PEL (USA)	See Quartz listing
		REL (USA)	Long-term value: 0,05* mg/m³ *respirable dust; See Pocket Guide App. A
		TLV (USA)	Long-term value: 0,025* mg/m³ *as respirable fraction
		EL (Canada)	Long-term value: 0,025 mg/m³ ACGIH A2; IARC 1
		EV (Canada)	Long-term value: 0,10* mg/m³ *respirable fraction

DNELs No further relevant information available.
PNECs No further relevant information available.
Additional information: The lists valid during the making were used as basis.

8.2 Exposure Controls
Personal protective equipment:
General protective and hygienic measures:

8.2	Exposure Controls	
8.2.2	Personal Protective Equipment:	
	General protective and hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
	Respiratory Protection	Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable.
	Eye Protection	Wear safety glasses.
	Protection of Hands	Wear protective gloves.
	Body Protection	Not required under normal conditions of use. Protection may be required for spills.
	Limitation and supervision of exposure into the environment	No further relevant information available.
	Risk Management Measures	No further relevant information available. See Section 7 for additional information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Appearance	Granulate	Color	Black
Odor	Odorless	Odor Threshold (ppm)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available	Boiling Point/Boiling Range (°C)	Not available
Flash Point (°C)	No Data	Explosive Limit Ranges	Not available
Auto Ignition Temperature (°C)	Not available	Decomposition Temperature (°C)	Not available
Explosive Properties	None	Oxidizing Properties	Not available
Flammability (Solid, Gas)	Not available	Ph (Value)	Not available
Evaporation Rate	N/A	Vapor Pressure (mm Hg)	Not available
Vapor Density (Air=1)	N/A	Density (g/ml)	3.19 g/cm^3
Solubility (Water)	Insoluble	Solubility (Other)	Not available
Partition Coefficient (N-Octanol/Water)	Not available	Viscosity (mPa.s)	Not available

9.2 Other Information Volatile Organic Chemical (VOC) Content – Not Available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical Stability

Thermal Decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of Hazardous Reactions Reacts with strong alkali. Reacts with strong oxidising agents.

10.4 Conditions To Avoid No further relevant information available.

10.5 Incompatible Materials No further relevant information available.

10.6 Hazardous Decomposition Product(s) Possible in traces.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute toxicity:

Primary Irritant Effect:

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes.

Sensitisation: No sensitizing effects known.

Additional toxicological information: May cause cancer. Route of exposure: Inhalative.

Acute effects (acute toxicity, irritation, and corrosivity): Irritating if inhaled, causing symptoms of coughing and shortness of breath.

Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure. Repeated exposures may result in skin and/or respiratory sensitivity.

CMR effects (carcinogenity, mutagenicity, and toxicity for reproduction): Carc. 1A

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity No data

Aquatic toxicity: No further relevant information available.

12.2 Persistence and Degradability No further relevant information available.

12.3 Bioaccumulative Potential No further relevant information available.

12.4 Mobility in Soil No further relevant information available.

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or

		large quantities of it to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.
12.5	**Results of PBT and vPvB Assessment**	**PBT:** Not applicable. **vPvB:** Not applicable.
12.6	**Other Adverse Effects**	No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste Treatment Methods Recommendation**	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
	Uncleaned Packaging: Recommendation:	Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Land Transport (ADR/RID) (c)(d)		**Land Transport (Within USA) (b)(d)**	
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.	Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None	Transport Hazard Class(es)	None
Packing Group	None	Packing Group	None
Hazard Label(s)	None	Hazard Label(s)	None
Environmental Hazards	None	Environmental Hazards	None
Special Precautions For User	None	Special Precautions For User	None
Sea Transport (IMDG) (c)		**Air Transport (ICAO/IATA) (c) (d)**	
UN Number	None	UN Number	None
Proper Shipping Name	Not classified as dangerous for transport.	Proper Shipping Name	Not classified as dangerous for transport.
Transport Hazard Class(es)	None	Transport Hazard Class(es)	None
Packing Group	None	Packing Group	None
Marine Pollutant	None	Marine Pollutant	None
Special Precautions For User	None	Special Precautions For User	None

(b)- ORM-D may be applicable within the USA for package sizes less than 30kg.
(c)– Consult with transport provider.
(d)– Check relevant regulations for Special Provisions.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

USA

SARA

Section 355 (extremely hazardous substances)	Substance is not listed.
SARA 313 (Specific toxic chemical listings)	Substance is not listed.
TSCA (Toxic Substance Control Act)	Substance is listed.

Proposition 65 (California):

Chemicals known to cause cancer:	14808-60-7 Quartz (SiO2)	
Chemicals known to cause reproductive toxicity for females:	Substance is not listed.	
Chemicals known to cause reproductive toxicity for males:	Substance is not listed.	
Chemicals known to cause developmental toxicity:	Substance is not listed.	
Carcinogenic Categories		
EPA (Environmental Protection Agency)	Substance is not listed.	
IARC (International Agency for Research on Cancer)	14808-60-7 Quartz (SiO2)	1
TLV (Threshold Limit Value established by ACGIH)	409-21-2 silicon carbide 14808-60-7 Quartz (SiO2)	A2 A2
MAK (German Maximum Workplace Concentration)	409-21-2 silicon carbide 14808-60-7 Quartz (SiO2)	2 1
NIOSH-Ca (National Institute for Occupational Safety and Health)	14808-60-7 Quartz (SiO2)	
Canada		
Canadian Domestic Substances List (DSL)	Substance is listed.	
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.	
Canada Ingredient Disclosure list (limit 1%)	Substance is not listed.	
Other regulations, limitations and prohibitive regulations		
Substances of very high concern (SVHC) according to REACH, Article 57	Substance is not listed.	

15.2	**Chemical Safety Assessment**	A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
Additional information:

- The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.
- The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
- In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from the potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.
  Please read the SDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

Relevant phrases
H350 May cause cancer. Route of exposure: Inhalative.

R48 Danger of serious damage to health by prolonged exposure.
R49 May cause cancer by inhalation.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation

IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstract Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Sources

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