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

and US GHS

Revision: 06.11.2014

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

Product Identifier GHS Product Identifier	Carbolon MA Carbolon MA
Chemical Name	Mixture (Silicon Carbide)
Catalog Numbers CAS No. EINECS No.	CG60X, CG80X, CG100X, CG120X, CG220X Mixture Mixture
REACH Registration No.	Not available
Relevant Identified Uses O	If The Substance Or Mixture And Uses Advised Against
Application of the substance / the mixture	Product Component
Details Of The Supplier Of	The Safety Data Sheet
Company Identification	C. R. Laurence. Co., Inc.
Address	2503 E. Vernon Ave.
	Los Angeles, CA 90058-1826
Telephone	(323) 588-1281
Emergency Telephone Nur	mber – Chemtrec: 1-800-424-9300 (24 hours)
	GHS Product Identifier Chemical Name Catalog Numbers CAS No. EINECS No. REACH Registration No. Relevant Identified Uses C Application of the substance / the mixture Details Of The Supplier Of Company Identification Address Telephone

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification C	of The Substance Or Mi	xture			
2.1.1	Classification a	ccording to Regulation	(EC) No. 1272/2008			
	Classifications lis (29CFR1910.120		to the OSHA GHS Hazard (Communication Standard		
	Hazard Pictogram(s)	Health Hazard	t			
2.1.2	Carc. 1A H350 May cause cancer. Route of exposure: Inhalative. Classification according to Directive 67/548/EEC & Directive 1999/45/EC					
	Hazard Symbol	T: Toxic				
	R49: May cause	cancer by inhalation.				
	Hazard Symbol	Xn; Harmful				
			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					
		he EU [*] in the latest valid	version.			
	Classification s					
	The classification is according to the latest editions of the EU-lists, and extended by company an data.					
		n is in accordance with th	e latest editions of internat	ional substances lists, and is		
	supplemented by	y information from techni	cal literature and by inform:	ation provided by the company.		
2.2	.2 Label Elements					
2.2.1		According to Regulati				
			labelled according to the G	lobally Harmonized System within the		
	United States (G		andian to the CLD seculation	_		
	The product is classified and labelled according to the CLP regulation.					
	Hazard Pictogram(s)		Signal Word(s)	DANGER		
	Hazard-determi	ning components of lal	belling: Quartz (SiO2)			
	Hazard		er. Route of exposure: Inha	alative.		
	Statement(s)					
	Precautionary		otective equipment as requ			
	Statement(s)	P202: Do not handle ur	ntil all safety precautions ha	ave 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 Hazard descripti WHMIS- symbols:		Restricted to pr	ofessional users		
		ion:	D2A – Very to	kic material causing other toxic effects	
	NFPA ratings (scale 0 - 4)	100	Health = 1 Fire = 0 Reactivity = 0		
	HMIS-ratings (scale 0 - 4)	HEALTH 1 FIRE 0 REACTIVITY 0	Health = *1 Fire = 0 Reactivity = 0	* - Indicates a long term health hazard from repeated or prolonged exposures.	
2.3	HMIS Long Term Health Hazard Substances Other Hazards	14808-60-7	Quartz (SiO2)		
	Results of PBT and vPvB assessment	PBT: Not appl vPvB: Not app			

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures Description: Mixture of substances listed below with nonhazardous additions. Dangerous Components:						
Hazardous Ingredient(s) %W/W CAS No. EC No. Hazard Pictogram(s) Hazard Phrase(s) Hazard Phrase(s)						
Silicon Carbide	50-100	409-21-2	206-991-8	None	substance with a Community workplace exposure limit	
				8	T R49;	
Quartz (SiO2)	2.5-10	14808-60-7	238-878-4	×	Xn R48	
	2,0 10			•	Carc. 1A, H350	
				×	Xi R36/37	
Carbon	≤ 2,5	7440-44-0	231-153-3		Eye Irrit. 2, H319; STOT SE 3, H335	
		7440.04.0		0	F R11	
Silicon	≤ 2,5	7440-21-3	231-130-8		Flam. Sol. 2, H228	

SECTION 4: FIRST AID MEASURES

4.1	Description of First Ai			
	General Information:	No special measures required.		
	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	Slight irritant effect on eyes. Slight irritant effect on skin and mucous membranes.		



	Symptoms And	Breathing difficulty.
	Effects, Both Acute And Delayed	Coughing
	Hazards	May cause cancer. 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	Use fire extinguishing methods suitable to surrounding conditions.
	Media	
	Unsuitable Extinguishing	None.
	Media	
5.2	Special Hazards Arising	No further relevant information available.
	From The Substance Or	
	Mixture	
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,	Ensure adequate ventilation Avoid formation of dust. Use respiratory
	Protective Equipment And	protective device against the effects of fumes/dust/aerosol. Wear
	Emergency Procedures	protective clothing.
6.2	Environmental Precautions	Do not allow to enter sewers/ surface or ground water.
6.3	Methods And Material For	Pick up mechanically. Dispose contaminated material as waste
	Containment And Cleaning Up	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

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



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingradia	ontrol Parame		uire monitoring at	the workplace.	
ingreate		alues that rec	uire monitoring at	•	
			PEL (USA)	Long-term value: 15* 5** mg/m ³	
			()	fibrous dust: *total dust **respirable fraction	
			REL (USA)	Long-term value: 10* 5** mg/m ³	
			· · · · ·	*total dust **respirable fraction Long-term value: 10* 3** mg/m ³	
Silicon c	arbide	409-21-2	TLV (USA)		
				fibrous dust:0,1 f/cc; nonfibrous:*inh.,**resp. Long-term value: 10* 3** mg/m ³	
			EL (Canada)	*inhalable;**respirable	
				Long-term value: 10* 3** mg/m³, 0,1f/cc*** ppm	
			EV (Canada)	nonfibrous: *inh.,*resp.; ***fibrous, resp.	
			PEL (USA)	see Quartz listing	
				Long-term value: 0,05* mg/m ³	
-			REL (USA)	*respirable dust; See Pocket Guide App. A	
			Long-term value: 0,025* mg/m ³		
Quartz (SiO2)	14808-60-7	TLV (USA)	*as respirable fraction	
			EL (Canada)	Long-term value: 0,025 mg/m ³	
				ACGIH A2; IARC 1	
			EV (Canada)	Long-term value: 0,10* mg/m ³	
			· · · · ·	*respirable fraction	
			PEL (USA)	Long-term value: 15* 5** mg/m ³	
				*total dust **respirable fraction Long-term value: 10* 5** mg/m ³	
			REL (USA)	*total dust **respirable fraction	
Silicon		7440-21-3	TLV (USA)	TLV withdrawn	
omoon		1110 21 0		Long-term value: 10* 3** mg/m ³	
			EL (Canada)	*total dust;**respirable fraction	
				Long-term value: 10 mg/m ³	
			EV (Canada)	total dust	
	s No further rele				
	s No further rele				
			lid during the makin	g were used as basis.	
8.2	Exposure Co		-		
8.2.2	Personal Pro		•		
	General			measures are to be adhered to when handling	
	protective ar	nd chemica	als. Immediately re	emove all soiled and contaminated clothing.	
	hygienic	Do not i	nhale dust / smok	e / mist. Avoid contact with the eyes and skin.	
	nygicino		Keep away from foodstuffs, beverages and feed. Wash hands before		
	measures:	Keep av	way norn rooustur		
			and at the end of		
		breaks	and at the end of		
	measures:	breaks Use sui	and at the end of table respiratory p	work.	
	Respiratory Protection	breaks Use sui present	and at the end of t table respiratory p . For spills, respira	work. protective device when high concentrations are	
6	measures: Respiratory	breaks Use sui present	and at the end of t table respiratory p . For spills, respira	work. protective device when high concentrations are	
0	measures: Respiratory Protection Eye Protection	breaks Use sui present on Safety g	and at the end of table respiratory p . For spills, respira glasses.	work. protective device when high concentrations are	
0	Respiratory Protection	breaks Use sui present on Safety g	and at the end of t table respiratory p . For spills, respira	work. protective device when high concentrations are	
	measures: Respiratory Protection Eye Protection Protection of Hands	breaks Use sui present on Safety (f Wear p	and at the end of table respiratory p . For spills, respira glasses. rotective gloves.	work. protective device when high concentrations are atory protection may be advisable.	
	measures: Respiratory Protection Eye Protection Protection of Hands	breaks Use sui present on Safety g f Wear p tion Not req	and at the end of table respiratory p . For spills, respira glasses. rotective gloves.	work. protective device when high concentrations are atory protection may be advisable.	
	measures: Respiratory Protection Eye Protection Protection of Hands	breaks Use sui present on Safety of f Wear po tion Not req spills.	and at the end of table respiratory p . For spills, respira glasses. rotective gloves.	work. protective device when high concentrations are atory protection may be advisable. al conditions of use. Protection may be required for	

No further relevant information available.

Limitation and

supervision of exposure into



the environme	nt	
Risk Management Measures	See Section 7 for additional information. No further relevant information available.	

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 at 20°C:	3,1 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 Chemica	I (VOC) Content – Not Available.	

SECTION 10: STABILITY AND REACTIVITY

specifications.

No decomposition if used and stored according to

No further relevant information available.

No further relevant information available.

Reacts with strong alkali. Reacts with strong oxidising agents.

- 10.1 Reactivity
- 10.2 Chemical Stability Thermal Decomposition / conditions to be avoided:
- 10.3 Possibility of Hazardous Reactions
- 10.4 Conditions To Avoid
- 10.5 Incompatible Materials
- 10.6 Hazardous Decomposition Product(s)

SECTION 11: TOXICOLOGICAL INFORMATION

Possible in traces.

11.1	Information on Toxicological Effects		
	Acute toxicity:		
	Primary Irritant Effect:		
	On the skin:	No irritant effect.	
	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	12.1 Toxicity	
	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	PBT: Not applicable.
	Assessment	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

United States (USA)

SARA



Section 355 (extremely hazardous substances)	None of the ingredients are listed.			
SARA 313 (Specific toxic chemical listings)	None of the ingredients are listed.			
TSCA (Toxic Substance Control Act)	All ingredients are listed.			
Proposition 65 (California):				
Chemicals known to cause cancer:	14808-60-7 Quartz (SiO2)			
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed.			
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed.			
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.			
Carcinogenic Categories				
EPA (Environmental Protection Agency)	None of the ingredients are listed.			
IARC (International Agency for Research on Cancer)	14808-60-7 Quartz (SiO2)	1		
TLV (Threshold Limit Value established by	409-21-2 silicon carbide	A2		
ACGIH)	14808-60-7 Quartz (SiO2)	A2		
MAK (German Maximum Workplace	409-21-2 silicon carbide	2		
Concentration)	14808-60-7 Quartz (SiO2)	1		
NIOSH-Ca (National Institute for Occupational Safety and Health)	14808-60-7 Quartz (SiO2)			
Canada				
Canadian Domestic Substances List (DSL)	All ingredients are listed.			
Canadian Ingredient Disclosure list (limit 0.1%)	None of the ingredients are listed.			
Canada Ingredient Disclosure list (limit 1%)	14808-60-7 Quartz (SiO2)			
Other regulations, limitations and prohibitive	Other regulations, limitations and prohibitive regulations			
Substances of very high concern (SVHC)	None of the ingredients are listed.			
according to REACH, Article 57				

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

H228 Flammable solid.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation

H350 May cause cancer. Route of exposure: Inhalative.



R11 Highly flammable. R36/37 Irritating to eyes and respiratory system. 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) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) Flam. Sol. 2: Flammable solids, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Carc. 1A: Carcinogenicity, Hazard Category 1A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3