MBCC GROUP

MasterEmaco T 1061

Version Revision Date: SDS Number: Date of last issue: -

1.0 01/04/2021 000000259960 Date of first issue: 01/04/2021

SECTION 1. IDENTIFICATION

Product name : MasterEmaco T 1061

Product code : 00000000055405499 00000000055405499

Manufacturer or supplier's details

Company name of supplier : Master Builders-Construction Systems

US, LLC

Address : 23700 CHAGRIN BLVD

Beachwood OH 44122

Emergency telephone : ChemTel: +1-813-248-0585

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Skin corrosion/irritation : Category 2

Serious eye damage/eye

irritation

Category 1

Carcinogenicity (Inhalation) : Category 1A (Lung)

Specific target organ toxicity

- single exposure

Category 3

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2 (Kidney, Immune system)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 1

Skin corrosion : Category 1

Serious eye damage : Category 1

Carcinogenicity (Inhalation) : Category 1A

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 1 (Lungs)

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Specific target organ toxicity - repeated exposure (Inhala-

tion)

Category 2 (Kidney, Immune system)

GHS label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

H350 May cause cancer by inhalation.

H372 Causes damage to organs (Lungs) through prolonged or

repeated exposure if inhaled.

H373 May cause damage to organs (Kidney, Immune system)

through prolonged or repeated exposure if inhaled.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vemiting

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.



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Other hazards

In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Cement

Components

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO2)	14808-60-7	>= 50 - < 75
Cement, alumina, chemicals	65997-16-2	>= 15 - < 20
Cement, portland, chemicals	65997-15-1	>= 7 - < 10
Iron oxide	1309-37-1	>= 0 - < 3
Silicon dioxide	7631-86-9	>= 0.3 - < 1
Calcium sulphate	7778-18-9	>= 3 - < 10

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

Causes skin irritation.

Causes serious eye damage.

May cause respiratory irritation.



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May cause cancer.

Causes damage to organs through prolonged or repeated

exposure if inhaled.

May cause damage to organs through prolonged or repeated

exposure.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Foam

Water spray Dry powder

Carbon dioxide (CO2)

Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are

sufficient.

Unsuitable extinguishing

media

water jet

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Avoid dust formation.
Avoid breathing dust.

Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Neutralize with acid.

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

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Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age conditions

Containers should be stored tightly sealed in a dry place.

Materials to avoid : Segregate from metals.

Segregate from acids and bases.

Segregate from oxidants.

Segregate from foods and animal feeds.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Iron oxide	1309-37-1	TWA value (Respirable fraction)	5 mg/m3	ACGIHTLV
		REL value (Dust and fume)	5 mg/m3 (iron (Fe))	NIOSH
		PEL (fumes/smok e)	10 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (fumes/smok e)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (Res- pirable par- ticulate mat- ter)	5 mg/m3	ACGIH
		TWA (dust and fume)	5 mg/m3 (Iron)	NIOSH REL
		TWA	10 mg/m3	OSHA Z-1

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		(Fumes)		
		TWA (total	15 mg/m3	OSHA Z-1
		dust) `		
		TWA (respir-	5 mg/m3	OSHA Z-1
		able fraction)		
		TWA	10 mg/m3	OSHA P0
		(Fumes)		
Silicon dioxide	7631-86-9	REL value	6 mg/m3	NIOSH
		TWA value	6 mg/m3	29 CFR
				1910.1000
		TMA	00 ::::	(Table Z-1-A)
		TWA value	20 millions of	29 CFR 1910.1000
			particles per cubic foot of air	(Table Z-3)
		TWA value	0.8 mg/m3	29 CFR
		I VVA Value	0.6 mg/m3	1910.1000
				(Table Z-3)
		TWA (Dust)	20 Million parti-	OSHA Z-3
		11171 (2 dot)	cles per cubic foot	00
			(Silica)	
		TWA (Dust)	80 mg/m3 /	OSHA Z-3
			%SiO2	
			(Silica)	
		TWA (Res-	0.05 mg/m3	NIOSH REL
		pirable dust)	(Silica)	
		TWA	6 mg/m3 (Silica)	NIOSH REL
Calcium sulphate	7778-18-9	TWA value	10 mg/m3	ACGIHTLV
		(Inhalable		
		fraction)		
		REL value	5 mg/m3	NIOSH
		(Respirable)	40/0	NUCCLI
		REL value	10 mg/m3	NIOSH
		(Total)		
		DEL /Doonir	E m a/m 2	20 CEB
		PEL (Respir-	5 mg/m3	29 CFR
		PEL (Respirable fraction)	5 mg/m3	1910.1000
		able fraction)	-	1910.1000 (Table Z-1)
		able fraction) PEL (Total	5 mg/m3 15 mg/m3	1910.1000 (Table Z-1) 29 CFR
		able fraction)	-	1910.1000 (Table Z-1)
		able fraction) PEL (Total	-	1910.1000 (Table Z-1) 29 CFR 1910.1000
		able fraction) PEL (Total dust)	15 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1)
		able fraction) PEL (Total dust) TWA value (Respirable fraction)	15 mg/m3 5 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value	15 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR
		able fraction) PEL (Total dust) TWA value (Respirable fraction)	15 mg/m3 5 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value (Total dust)	15 mg/m3 5 mg/m3 15 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000 (Table Z-1-A)
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value (Total dust) TWA (Res-	15 mg/m3 5 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value (Total dust) TWA (Respirable)	15 mg/m3 5 mg/m3 15 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000 (Table Z-1-A) NIOSH REL
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value (Total dust) TWA (Respirable) TWA (total)	15 mg/m3 5 mg/m3 15 mg/m3 10 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000 (Table Z-1-A)
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value (Total dust) TWA (Respirable)	15 mg/m3 5 mg/m3 15 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000 (Table Z-1-A) NIOSH REL
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value (Total dust) TWA (Respirable) TWA (total) TWA (total)	15 mg/m3 5 mg/m3 15 mg/m3 10 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000 (Table Z-1-A) NIOSH REL
		able fraction) PEL (Total dust) TWA value (Respirable fraction) TWA value (Total dust) TWA (Respirable) TWA (total) TWA (total dust)	15 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 10 mg/m3 15 mg/m3	1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1) 29 CFR 1910.1000 (Table Z-1-A) 29 CFR 1910.1000 (Table Z-1-A) NIOSH REL NIOSH REL



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		dust)		
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Inhal- able particu- late matter)	10 mg/m3 (Calcium)	ACGIH
Quartz (SiO2)	14808-60-7	TWA value (Respirable fraction)	0.025 mg/m3	ACGIHTLV
		TWA value	0.05 mg/m3 (Respirable dust)	29 CFR 1910.1001- 1050
		OSHA Action level	0.025 mg/m3 (Respirable dust)	29 CFR 1910.1001- 1050
		REL value (Respirable dust)	0.05 mg/m3	NIOSH
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		PEL (respir- able)	0.05 mg/m3	OSHA CARC
		TWA (Respirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
Cement, portland, chemicals	65997-15-1	TWA value (Respirable fraction)	1 mg/m3	ACGIHTLV
		REL value (Total)	10 mg/m3	NIOSH
		REL value (Respirable)	5 mg/m3	NIOSH
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Respirable	5 mg/m3	29 CFR 1910.1000



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fraction)		(Table Z-1-A)
TWA value	50 millions of particles per cubic	29 CFR 1910.1000
	foot of air	(Table Z-3)
TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3	ACGIH
TWA (Respirable)	5 mg/m3	NIOSH REL
TWA (total)	10 mg/m3	NIOSH REL
TWA (total dust)	15 mg/m3	OSHA Z-1
TWA (respirable fraction)	5 mg/m3	OSHA Z-1
TWA (Total dust)	10 mg/m3	OSHA P0
TWA (respirable dust fraction)	5 mg/m3	OSHA P0
TWA (Dust)	50 Million parti- cles per cubic foot	OSHA Z-3

Engineering measures : Provide local exhaust ventilation to maintain recommended

P.E.L.

Personal protective equipment

Respiratory protection : Breathing protection if dusts are formed.

Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Choose body protection according to the amount and con-

centration of the dangerous substance at the work place.

Protective measures : Avoid contact with the skin, eyes and clothing.

Avoid inhalation of dusts.

In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene

and safety practice.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder to fine granules

Color : gray

Odor : faint odour

Odor Threshold : Not determined due to potential health hazard by inhalation.

pH : 13 (68 °F / 20 °C)

(as aqueous solution)

Melting point : No applicable information available.

Boiling point : No applicable information available.

Flash point : does not flash

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not determined

Self-ignition : not self-igniting

Upper explosion limit / Upper

flammability limit

As a result of our experience with this product and our

knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance

with the intended use.

Lower explosion limit / Lower

flammability limit

As a result of our experience with this product and our

knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance

with the intended use.

Vapor pressure : No applicable information available.

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Bulk density : 1.6 g/ml

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No applicable information available.

Partition coefficient: n-

octanol/water

No applicable information available.

Autoignition temperature : Not applicable



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Viscosity

Viscosity, dynamic : No applicable information available.

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Not explosive

Oxidizing properties : not fire-propagating

Self-heating substances : No data available

Sublimation point : No applicable information available.

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong bases

Strong acids

Hazardous decomposition

products

No hazardous decomposition products if stored and handled

as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : Remarks: No applicable information available.

Acute dermal toxicity : Remarks: No applicable information available.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation in susceptible persons.

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Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks : Chromate in this product has been reduced. Sensitization due

to chromate within stated shelf-live is unlikely.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure if inhaled.

May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : The product has not been tested. The statement has been

derived from the properties of the individual components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.



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Persistence and degradability

Product:

Biodegradability : Remarks: Not applicable for inorganic substances.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: The product will not be readily bioavailable due to

its consistency and insolubility in water.

Mobility in soil

Product:

Distribution among environ-

mental compartments

Remarks: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater

is not expected.

The substance will not evaporate into the atmosphere from

the water surface.

Other adverse effects

Product:

Additional ecological infor-

mation

There is a high probability that the product is not acutely

harmful to aquatic organisms.

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual

components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with national, state and local regula-

tions.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not discharge into drains/surface waters/groundwater.

Contaminated packaging : Contaminated packaging should be emptied as far as possible

and disposed of in the same manner as the sub-

stance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR



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Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

US State Regulations

Pennsylvania Right To Know

Iron oxide	1309-37-1
Silicon dioxide	7631-86-9
Calcium sulphate	7778-18-9
Cement, portland, chemicals	65997-15-1
crystalline silica	14808-60-7

New Jersey Right To Know

Calcium sulphate	7778-18-9
Cement, portland, chemicals	65997-15-1
crystalline silica	14808-60-7
Lithium carbonate	554-13-2

California Prop. 65

WARNING: This product can expose you to chemicals including Chromium (VI) ion, Quartz (SiO2), Quartz (SiO2), Lithium carbonate, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a

TSCA Inventory exemption.

SECTION 16. OTHER INFORMATION

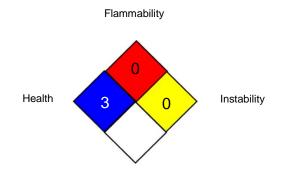
Further information

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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1-A (29 CFR 1910.1000)

1-A)

29 CFR 1910.1000 (Table Z- : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR

1910.1000

29 CFR 1910.1000 (Table Z- : OSHA Table Z-3 (Mineral Dusts) 29 CFR 1910.1000

3)

29 CFR 1910.1001-1050 : OSHA - Specifically Regulated Substances (29 CFR

1910.1001-1050)

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIHTLV : American Conference of Governmental Industrial Hygienists -

threshold limit values (US)

NIOSH : NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens
OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

29 CFR 1910.1000 (Table Z- : Time Weighted Average (TWA):

1-A) / TWA value

29 CFR 1910.1000 (Table Z- : Permissible exposure limit

1) / PEL

29 CFR 1910.1000 (Table Z- : Time Weighted Average (TWA):

3) / TWA value

29 CFR 1910.1001-1050 / : OSHA Action level:

OSHA Action level

29 CFR 1910.1001-1050 / : Time Weighted Average (TWA):

TWA value

ACGIH / TWA : 8-hour, time-weighted average
ACGIHTLV / TWA value : Time Weighted Average (TWA):
NIOSH / REL value : Recommended exposure limit (REL):

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NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA CARC / PEL : Permissible exposure limit (PEL)
OSHA P0 / TWA : 8-hour time weighted average
OSHA Z-1 / TWA : 8-hour time weighted average
OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB -Very Persistent and Very Bioaccumulative

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