

MasterSeal 590

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/04/2021

 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

SECTION 1. IDENTIFICATION

Product name : MasterSeal 590

Product code : 00000000050268659 000000000050268659

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 USA: +1-800-255-3924 Contract

Number MIS9240420

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

Serious eye damage/eye

irritation

Category 1

Skin corrosion/irritation : Category 2

Carcinogenicity (Inhalation) : Category 1A (Lung)

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2 (Kidney, Immune system)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 1 (Lung)

GHS label elements

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation. 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)



MasterSeal 590

Version Revision Date: SDS Number: Date of last issue: 01/04/2021 1.2 01/21/2021 000000249750 Date of first issue: 05/11/2020

through prolonged or repeated exposure if inhaled.

Precautionary Statements

Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P201 Obtain special instructions before use.

P271 Use only outdoors or in a well-ventilated area.

P260 Do not breathe dust or mist.

P202 Do not handle until all safety precautions have been read and understood.

P270 Do not eat, drink or smoke when using this product. P264 Wash the contact area thoroughly after handling.

Response:

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

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P362 + P364 Take off contaminated clothing and wash it before

P310 Immediately call a POISON CENTER or doctor/ physician.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : modified cement mortar

Components

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO2)	14808-60-7	>= 25 - < 50
Cement, portland, chemicals	65997-15-1	>= 20 - < 50
Calcium dihydroxide	1305-62-0	>= 1 - < 7
Limestone	1317-65-3	>= 0.3 - < 5
Gypsum (Ca(SO4).2H2O)	13397-24-5	>= 0.3 - < 3

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-

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MasterSeal 590

Version Revision Date: SDS Number: Date of last issue: 01/04/2021 1.2 01/21/2021 000000249750 Date of first issue: 05/11/2020

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

and effects, delayed

Causes skin irritation.

Causes serious eye damage. May cause respiratory irritation.

May cause cancer.

Causes damage to organs through prolonged or repeated

exposure if inhaled.

May cause damage to organs through prolonged or repeated

exposure.

Prolonged or repeated inhalation of respirable crystalline silica

(quartz) may result in silicosis.

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 : Wear self-contained breathing apparatus for firefighting if nec-



MasterSeal 590

 Version
 Revision Date:
 SDS Number:
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 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

for fire-fighters essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-:

tive equipment and emergency 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.

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	Control parame-	Basis
		(Form of	ters / Permissible	



MasterSeal 590

		exposure)	concentration	
calcium carbonate	471-34-1	REL value	10 mg/m3	NIOSH
		(Total) REL value	5 mg/m3	NIOSH
		(Respirable) PEL (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA (Respirable)	5 mg/m3 (Calcium car- bonate)	NIOSH REL
		TWA (total)	10 mg/m3 (Calcium car- bonate)	NIOSH REL
Calcium dihydroxide	1305-62-0	TWA value	5 mg/m3	ACGIHTLV
		REL value	5 mg/m3	NIOSH
		PEL (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	5 mg/m3	ÀCGIH
		TWA	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
calcium oxide	1305-78-8	TWA value	2 mg/m3	ACGIHTLV
		REL value	2 mg/m3	NIOSH
		PEL	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	2 mg/m3	ACGIH
		TWA	2 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
		TWA	5 mg/m3	OSHA P0
Iron oxide	1309-37-1	TWA value (Respirable fraction)	5 mg/m3	ACGIHTLV
		REL value (Dust and fume)	5 mg/m3 (iron (Fe))	NIOSH



MasterSeal 590

1	1	1	1	1
		PEL	10 mg/m3	29 CFR
		(fumes/smok		1910.1000
		e)	10 1 5	(Table Z-1)
		TWA value	10 mg/m3	29 CFR
		(fumes/smok		1910.1000
		e)		(Table Z-1-A)
		TWA (Res-	5 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		
		TWA (dust	5 mg/m3	NIOSH REL
		and fume)	(Iron)	
		TWA	10 mg/m3	OSHA Z-1
		(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)		
Limestone	1317-65-3	REL value	5 mg/m3	NIOSH
		(Respirable)		
		REL value	10 mg/m3	NIOSH
		(Total)	3 3	
		PEL (Respir-	5 mg/m3	29 CFR
		able fraction)	Jg.	1910.1000
				(Table Z-1)
		PEL (Total	15 mg/m3	29 CFR
		dust)		1910.1000
				(Table Z-1)
		TWA value	5 mg/m3	29 CFR
		(Respirable	o mg/mo	1910.1000
		fraction)		(Table Z-1-A)
		TWA value	15 mg/m3	29 CFR
		(Total dust)	10 mg/mo	1910.1000
		(1 otal duot)		(Table Z-1-A)
		TWA (total	15 mg/m3	OSHA Z-1
		dust)	13 1119/1110	0011/(2.1
		TWA (respir-	5 mg/m3	OSHA Z-1
		able fraction)	J IIIg/IIIJ	0011/4 2-1
		TWA (Total	15 mg/m3	OSHA P0
		dust)	13 1119/1113	OSI IA FU
		TWA (respir-	5 mg/m3	OSHA P0
		able dust	J mg/ma	USI IA FU
		fraction)	5 ma/m2	NIOSH REL
		TWA (Res-	5 mg/m3	INIOSH KEL
		pirable)	(Calcium car-	
		T\\/ \ /+c+c \	bonate)	NIOCH DEI
		TWA (total)	10 mg/m3	NIOSH REL
			(Calcium car-	
0 (0 . (0 0 1) 01 10 0)	40007.04.5	T10/0	bonate)	A 0 0 11 1 T 1 1 /
Gypsum (Ca(SO4).2H2O)	13397-24-5	TWA value	10 mg/m3	ACGIHTLV
		(Inhalable		
		fraction)		



MasterSeal 590

1	ı	1	1	1
		REL value (Respirable)	5 mg/m3	NIOSH
		REL value (Total)	10 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)	15 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (Res- pirable)	5 mg/m3	NIOSH REL
		TWA (total) TWA (total dust)	10 mg/m3 15 mg/m3	NIOSH REL OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		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 (respirable)	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 par-	0.025 mg/m3 (Silica)	ACGIH



MasterSeal 590

		ticulate mat-		
		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 fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA value	50 millions of particles per cubic foot of air	29 CFR 1910.1000 (Table Z-3)
		TWA (Respirable particulate matter)	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
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-



MasterSeal 590

Version **Revision Date:** SDS Number: Date of last issue: 01/04/2021 01/21/2021 000000249750 Date of first issue: 05/11/2020 1.2

		1050
REL value	0.05 mg/m3	NIOSH
(Respirable		
dust)		
TWA (Res-	0.05 mg/m3	OSHA Z-1
pirable dust)		
TWA (respir-	10 mg/m3 /	OSHA Z-3
able)	%SiO2+2	
TWA (respir-	250 mppcf /	OSHA Z-3
able)	%SiO2+5	
TWA (respir-	0.1 mg/m3	OSHA P0
able dust		
fraction)		
TWA (Res-	0.025 mg/m3	ACGIH
pirable par-	(Silica)	
ticulate mat-		
ter)		
PEL (respir-	0.05 mg/m3	OSHA CARC
able)		
TWA (Res-	0.05 mg/m3	NIOSH REL
pirable dust)	(Silica)	

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.

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

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.

When using do not eat or drink.

Hygiene measures

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance powder

Color gray

Odor odorless



MasterSeal 590

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/04/2021

 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

pH : approx. 12 - 13 (approx. 68 °F / 20 °C)

(as aqueous suspension)

Melting point : No data available

Flash point : No data available

Evaporation rate : The product is a non-volatile solid.

Flammability (solid, gas) : not flammable

Vapor pressure : No data available

Relative vapor density : The product is a non-volatile solid.

Bulk density : approx. 1,800 - 2,400 kg/m3

Solubility(ies)

Water solubility : dispersible (68 °F / 20 °C)

Solubility in other solvents : No applicable information available.

Partition coefficient: n-

octanol/water

Not applicable

Decomposition temperature : No de

No decomposition if stored and handled as pre-

scribed/indicated.

Viscosity

Viscosity, dynamic : Not applicable

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- : No decomposition if stored and applied as directed.

tions

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

Incompatible materials : Strong bases

Strong acids

Hazardous decomposition : No hazardous decomposition products if stored and handled



MasterSeal 590

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/04/2021

 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

products 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.

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 (Lung) through prolonged or repeated exposure if inhaled.

May cause damage to organs (Kidney, Immune system) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified based on available information.



MasterSeal 590

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/04/2021

 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

Further information

Product:

Remarks : Health injuries are not known or expected under normal use.

The product has not been tested. The statements on toxicology have 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.

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 environmental 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.

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MasterSeal 590

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/04/2021

 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

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 waterways or sewer systems without

proper authorization.

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

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

Calcium dihydroxide	1305-62-0
Limestone	1317-65-3
Gypsum (Ca(SO4).2H2O)	13397-24-5
Cement, portland, chemicals	65997-15-1
crystalline silica	14808-60-7

New Jersey Right To Know

Calcium dihydroxide	1305-62-0
Limestone	1317-65-3
Quartz (SiO2)	14808-60-7
Cement, portland, chemicals	65997-15-1

California Prop. 65

WARNING: This product can expose you to chemicals including Quartz (SiO2), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

MasterSeal 590

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/04/2021

 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

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.

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

Trisodium citrate

SECTION 16. OTHER INFORMATION

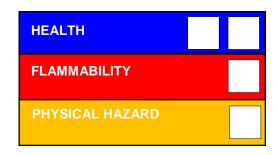
Further information

NFPA 704:

Flammability Health 3 0 Instability

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

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

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

21

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-

MasterSeal 590

 Version
 Revision Date:
 SDS Number:
 Date of last issue: 01/04/2021

 1.2
 01/21/2021
 000000249750
 Date of first issue: 05/11/2020

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):

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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