DEPARTMENT OF MINERAL RESOURCES AND ENERGY

NO. 6053 28 March 2025

AMENDMENTS TO THE REGULATIONS RELATING TO OCCUPATIONAL HYGIENE

MINE HEALTH AND SAFETY ACT, 1996 (ACT NO 29 OF 1996)

1996 (Act No. 29 of 1996) and after consultation with the Mine Health and Safety Council, hereby amend Chapter 22 of the regulations to the Samson Gwede Mantashe, MP, Minister of Mineral and Petroleum Resources, under section 98 (1) (r) of the Mine Health and Safety Act, Mine Health and Safety Act, as set out in the schedule.

The amended regulations comes into operation 90 days from the date of publication in the Government Gazette.

MR. S.G. MANTASHE, MP

MINISTER OF MINERAL AND PETROLEUM RESOURCES

DATE: 28/02

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SCHEDULE

Substitution of regulation 22.9 (2) (a)

1. Regulation 22.9 (2) (a) of the regulations to the Mine Health and Safety Act is hereby amended by the substitution for the table on "Occupational Exposure Limits for Airborne Pollutants" under regulation 22.9 (2) (a) of the following table:

"OCCUPATIOANL EXPOSURE LIMITS FOR AIRBORNE POLLUTANTS

Tabulation shows inhalable particulates unless indicated to be respirable

CURRENT SUBSTANCE	PROPOSED SUBSTANCE	POLLUTANT	CURRENT MHSA SCHEDULE 22.9(A) OEL	SAMI NEW OEL	SAMI FINAL NOTATIONS
	Acetone		500 ppm/1185 mg/m³ STEL		Ns
		4	1000 ppm/2375 mg/m³	250 ppm, STEL 500 ppm	BEI Hrine: 25mall @ End of shift
	Acetonitrile		40 ppm/70 mg/m³		
		5	60 ppm/105 mg/m³	20 ppm	Skin
metal respirable	Aluminium metal respirable particulate	17	5 mg/m³	2 mg/m³	None
Asbestos, all forms	Asbestos, all forms	34	0,2f/ml	0,1f/ml	Carc
	Benzene				Carc a1, skin
		43	1 ppm/ 3 mg/m³	0.5 ppm STEL 2.5 ppm	BEI Urine: End of shift 28/500ur/n realinine
Calcium silicate inhalable particulate respirable particulate	Calcium silicate inhalable particulate respirable particulate	102	5 mg/m³	1 mg/m³	0 m m m m m m m m m m m m m m m m m m m
Carbon monoxide (CO)	Carbon monoxide (CO)	113	35 mg/m³ / 30 ppm	25 ppm	Blood: carboxyhaemoglobin=3,5% haemoglobin @ end of shift Exhaled air 20ppm
Carbon monoxide (CO)	Carbon monoxide (CO)	113	C 115 mg/m³ / 100 ppm	C 100 ppm	
	Carbon monoxide (CO) for donning SCSR	113		300 ppm	

Cement dust respirable	Cement dust respirable	121	5 mg/m³	3 mg/m³	DSEN
None	Metallic chromium as Cr(0)		None	0.5 mg/m³	
Chromium, metal and inorganic compounds (as Cr) Cr (II) compounds		148	0.5 mg/m³	0.5 mg/m³	Carc category 1
Chromium, metal and inorganic compounds (as Cr) Cr (III) compounds	Chromium (metal and inorganic compounds) Cr(III) water-soluble compounds	149	0.5 mg/m³	0.003 mg/m³	Care Ad. Qv. DGEN
Chromium, metal and inorganic compounds (as Cr) Cr (VI) compounds	Chromium (metal and inorganic compounds) Cr(VI) water soluble compounds	150	0.05 mg/m³	0.0005 mg/m³	Total chromium in urine Chromium in plasma, whole blood, red
None	Chromium (metal and inorganic compounds) Cr(VI) water soluble compounds	150	None	STEL 0.015 mg/m³	Urine: Total chromium at the End of shift at the end of the week=25µg/L Increase during shift =10µg/L Crivity and Atlack Process
Coal dust (respirable particulate)	None	151	2 mg/m³	1.5 mg/m³	of (vi): calcoli, or, Doein, Roein
Coal dust (respirable particulate)	Coal dust, Anthracite	151	None	0.4 mg/m³	A ores
Coal dust (respirable particulate)	Coal dust, Bituminous	151	None	0.9 mg/m³	Carc A4
Copper Dust and mists (as Cu]	Copper fume	154	0.2 mg/m³	0.2 mg/m³	None
Copper Dust and mists (as Cu)	Copper dust & mist	155	1 ppm STEL 2 PPM	1 mg/m³	None
Ethyl benzene	Ethyl benzene	276	100 ppm/435 mg/m³ STEL 125 ppm/545 mg/m³	20 ppm	BEI Sum of mandelic acid and phenylglyoxylic acid: urine @End of shift 0.15g/g creatinine
*Formaldehyde	*Formaldehyde	300	1 ppm/1.2 mg/m³ STEL 2 ppm/2.5 mg/m³	0.3 ppm	CarC category 1 DSEN

CURRENT SUBSTANCE	PROPOSED SUBSTANCE	POLLUTANT	CURRENT MHSA SCHEDULE 22.9(A) OEL	SAMI NEW FINAL OEL	SAMI FINAL NOTATIONS
None	Diesel particulate matter (DPM) – Elemental Carbon			0.1 mg/m³	Carc A1
None	Diesel particulate matter (DPM) – Total Carbon		None	None	
Hydrogen sulphide	Hydrogen sulphide	341	10 ppm/ 14 mg/m ³ STEL 15 ppm/ 21 mg/m ³	1 ppm STEL 5 ppm	- N
Iron oxide, dust and fume [as Fe] Fe] (respirable particulate)	Iron oxide, dust and fume [as Fe] (respirable particulate)	348	5 mg/m³ C 10 mg/m³	5 mg/m³	Carc A4
Lead, elemental, and inorganic compounds [as Pb] compounds [as Pb]	Lead, elemental, and inorganic compounds [as Pb]	366	0.1 mg/m³	0.05 mg/m ³	Carc A3

		Mone	Urine nickel	Model	None	orov.	None	DSEN	SAMI FINAL NOTATIONS	carc A2	carc A2	None	None	None	None	None	carc A4	None	carc A3
0,2 mg/m³ [I] 0,04 mg/m³ [R]	0.1 mg/m³ [I] 0.04 mg/m³ [R]	0,5 mg/m³ [R]	0.2 mg/m³	3 ppm 5 mg/m³ STEL 3 ppm 9 mg/m³	10ma/m³	3 mg/m³	1 mg/m³	2 mg/m³	SAMI NEW FINAL OEL	0.05 mg/m³	0.05 mg/m³	0.05 mg/m³	0.05 mg/m³	10 mg/m³	5 mg/m³	0.05 mg/m³	10 mg/m³	5 mg/m³	0.5 mg/m³
1 mg/m³	1 mg/m³ STEL 3 mg/m³	5 mg/m³ STEL 10 mg/m³	0.5 mg/m³	3 ppm 5 mg/m³ STEL 3 ppm 9 mg/m³	10 mg/m³	3 mg/m³	5 mg/m³	5 mg/m³	CURRENT MHSA SCHEDULE 22.9(A) OEL	0.1 mg/m³	0.1 mg/m³	0.1 mg/m³	0.1 mg/m³	10 mg/m³	5 mg/m³	0.1 mg/m³	10 mg/m³	5 mg/m³	0.5 mg/m³
378	379	422	433	441	458	459	490	492	POLLUTANT	522	521	523	524	526	527	525	569	570	592
Manganese, elemental, and inorganic compounds [as Mn]	Manganese, fume [as Mn]	Molybdenum compounds [as Mo] soluble compounds	*Nickel, inorganic compounds [as Ni] insoluble compounds	Nitrogen dioxide	Particles not otherwise classified [PNOC] (inhalable particulate)	Particles not otherwise classified [PNOC] (respirable particulate)	Polyvinyl chloride [PVC] inhalable particulate	Portland cement respirable particulate	PROPOSED SUBSTANCE	Silica, crystalline (respirable particulate) - Quartz	Silica, crystalline (respirable particulate) - Cristobalite	Silica, crystalline (respirable particulate) - Tridymite	Silica, crystalline (respirable particulate) - Tripoli	Silica, amorphous (inhalable)	amorphous (r	Silica, fused (respirable particulate)	Titanium dioxide (Inhalable particulate)	dioxide (Vanadium Pentoxide (Inhalable particulate)
Manganese, elemental, and inorganic compounds [as Mn]	Manganese, fume [as Mn]	Molybdenum compounds [as Mo] soluble compounds	Nickel, inorganic compounds [as Ni] insoluble compounds	Nitrogen dioxide	Particles not otherwise classified [PNOC] (inhalable particulate)	not otherwise clar respirable particul	Polyvinyl chloride [PVC] respirable particulate	Portland cement respirable particulate	CURRENT SUBSTANCE	Silica, crystalline (respirable particulate) - Quartz	crystalline ate) - Cristobal	crystalline late) - Tridymite	Silica, crystalline (respirable particulate) - Tripoli	Silica, amorphous (inhalable)	amorphous (res	Silica, fused (respirable particulate)	Titanium dioxide (Inhalable particulate)		Vanadium Pentoxide (Inhalable particulate)

0.05 mg/m³	HOU	5 mg/m³		1 mg/m³	UBS:		9000
0.05 mg/m³	£ m2/m3	2 IIIQ/III-		1 mg/m³		5 ma/m³	
593	003	Velding Fume 598		Wood Dust (hard wood) 600		601	
Vanadium Pentoxide (Fume and Respirable particulate)	Welding Firms					Wood Dust (soft wood)	
Vanadium Pentoxide (Fume and Respirable particulate) and Respirable particulate)	Welding Fume			_	Mood Dury Joseph		

¹ The OEL of 5 mg/m³ for inhalable welding fume, is coupled with compliance with OEL values for the individual elemental hazardous contaminants in the fume

Notations:

BEI - Biological Exposure Indices indicate to occupational health and hygiene professionals that biological monitoring needs to be performed for a particular pollutant. Carc - The carcinogen notation refers to a pollutant that may produce a benign or malignant neoplasm. Range from Carc A1-A5.

Skin - The skin notation indicates that significant quantities of the pollutant may be absorbed through the skin to produce systemic effects following exposure.
Sen – The sensitizer notation indicates that the pollutant may produce dermal (DSEN) and/or respiratory sensitization (RSEN).