

BASUTOLAND, BECHUANALAND
PROTECTORATE, SWAZILAND.
HIGH COMMISSIONER'S NOTICE
No. 272 of 1942.

Cancelled
1.11.42

CONTROL OF NON-FERROUS MATERIALS.
ANTI-FRICTION BEARING MATERIALS.

It is hereby notified for general information that, under and by virtue of the powers vested in him by section *one* of the Basutoland Emergency Powers (Defence) Proclamation, 1939 (No. 35 of 1939), section *one* of the Bechuanaland Protectorate Emergency Powers (Defence) Proclamation, 1939 (No. 36 of 1939), and section *one* of the Swaziland Emergency Powers (Defence) Proclamation, 1939 (No. 37 of 1939), respectively, His Excellency the High Commissioner has been pleased to prohibit and order as follows:—

1. As and from the 1st November, 1942, no person shall, save with the authority of the Controller, use any anti-friction bearing metal (hereinafter known as white metal) unless the composition of the said metal conforms to the specifications given under one or another of the groups listed in Annexure "A" hereto: Provided, however, that the ratio of other metals to tin may be varied within each group limit for the purpose of adjusting the mechanical properties of the white metal to meet the requirements of a particular use.

2. As and from the 1st November, 1942, no person shall, save with the authority of the Controller, use any white metal for the types of bearings shown in the first column of Annexure "B" hereto, unless the composition of such metal conforms with that of the group indicated against the respective type of bearing in the second column of the said Annexure.

3. As and from the 1st November, 1942, no person shall use any white metal unless such person—

- (i) takes all necessary precautions to avoid contamination of white metal swarf or scrap, by segregating such swarf or scrap into separate groups as specified in Annexure "A" hereto.
- (ii) collects, and segregates into separate groups as specified in Annexure "A" hereto, all skimmings and dross arising from the treatment of white metals;
- (iii) keeps white metal swarf or scrap, skimmings and dross in receptacles clearly marked to indicate the group to which the material belongs.

4. White metal and gun-metal turnings must not be melted together.

5. Every person whose business or part of whose business it is to produce or sell white metals shall render not later than the 15th November, 1942, a detailed return of all stocks of such white metals on hand at the date of publication of this Notice in the *Gazette* as do not conform to the specifications set forth under Groups 1 to 4 of Annexure "A" hereto, showing the weight and description of the white metals.

6. In these regulations "Controller" means the Government Secretary or such other officer as the Resident Commissioner may appoint.

7. Any person who contravenes or fails to comply with any provision of these regulations shall be guilty of an offence and liable on conviction to a fine not exceeding two hundred pounds or to imprisonment for a period not exceeding one year, or to both such fine and imprisonment.

By Command of His Excellency
the High Commissioner.

H. E. PRIESTMAN,
Administrative Secretary.

High Commissioner's Office,
Pretoria, 14th October, 1942.

ANNEXURE "A"

NOTE.—White metals have been divided into four groups according to their tin-content, as hereunder. A bearing metal suitable for any purposes to which white metals are applicable, can be found within these four groups.

Group No.	Specification.			
	Tin.	Antimony.	Copper.	Lead.
1.	80 to 85	10 to 14	5 to 6	—
2.	70 to 74	9 to 11	6 to 8	14 to 10
3.	18 to 17	13 to 15	0.5 to 1	72 to 68
4.	5 to 7	14 to 15	—	81 to 79

ANNEXURE "B"

NOTE.—The following schedule shows the major applications of white bearing metals and the respective group numbers applicable.

SCHEDULE
CLASSIFICATION OF BEARINGS.

For use in:

Aero engines (petrol and diesel):	Group No. No prohibitions in type of white metal to be used.
Blowers (all types):	3
Cement mills:	3
Centrifugal machinery (e.g., extractors and separators):—	
(i) Pedestal bearings:	2
(ii) All other bearings:	3
Compression ignition (diesel) engines (except aero engine diesels):—	
(a) High speed, 700 r.p.m. and over—	
(i) Main crankshaft bearings:	4
(ii) Connecting rod big-end bearings:	1
(iii) Camshaft bearings:	3
(iv) All other bearings:	2

	<i>Group No.</i>
b) Compression ignition engines for marine main propulsion—	
(i) Main crankshaft bearings.....	No prohibition.
(ii) Connecting rod big-end bearings.....	No prohibition.
(iii) Crosshead bearings.....	No prohibition.
(iv) Camshaft bearings.....	3
(v) All other bearings.....	3
(c) Stationary compression ignition engines under 700 r.p.m.—	
(i) Main crankshaft bearings.....	2
(ii) Connecting rod big-end bearings.....	2
(iii) Crosshead bearings.....	2
(iv) Camshaft bearings.....	3
(v) All other bearings.....	3
Compressors :—	
(a) Large, high duty and high speed—	
(i) Crankshaft main bearings.....	2
(ii) Connecting rod big-ends.....	2
(iii) Auxiliary bearings.....	3
(b) Other compressors (all bearings).....	3
Crushing machinery :—	
(a) Jaw type—	
(i) Backing up jaws.....	4
(ii) Bearings.....	4
(b) Gyratory type.....	2
Electric motors and generators :—	
Traction motors—	
(a) Locomotive :—	
(i) Main rotor bearings.....	2
(ii) Other bearings.....	3
(b) Trams, buses and other vehicles (all bearings).....	3
Stationary motors and generators—	
(c) 1,500 r.p.m. and above :—	
(i) Main rotor bearings.....	2
(ii) Other bearings.....	3
(d) Below 1,500 r.p.m. (all bearings).....	3
Fans (all types).....	3
Gas engines :—	
(i) Crankshaft main bearings.....	2
(ii) Connecting rod big-end bearings.....	2
(iii) Camshaft bearings.....	3
(iv) All other bearings.....	3
General process and production machinery :—	
(a) Spindle bearings carrying loads over 100 lb. sq. in. and/or speeds 1,000 r.p.m. and over.....	3
(b) Other spindle bearings.....	4
This includes machinery for—	
Woodworking. Wire drawing and wire working.	
Textiles. Laundry. Paper-making. Printing.	
Dairy and food handling and processing. Mixing and blending. Agricultural, other than prime movers. Brick and tile manufacture. Hydraulic machinery. Baking. Boot and shoe manufacture, etc., etc.	
Machine tools :—	
(a) High speed grinding machines.....	2
(b) Stamps, presses and drop hammers.....	2
(c) Other.....	3
Oil engines (not compression ignition) :—	
(i) Crankshaft main bearings.....	2
(ii) Connecting rod big-end bearings.....	2
(iii) Camshaft bearings.....	3
(iv) All other bearings.....	3
Petrol engines :—	
(i) Crankshaft main bearings.....	1
(ii) Connecting rod big-end bearings.....	1
(iii) Camshaft bearings.....	3
(iv) Subsidiary drive bearings (drive to oil pump, water pump, dynamo, distributor, etc.).....	4
(v) Water pump bearings.....	3
(vi) All other bearings.....	3
Pumps :—	
(a) Reciprocating—	
(i) Crankshaft, main and big-end bearings.....	2
(ii) All other bearings.....	3
(b) Centrifugal—	
(i) Main shaft bearings.....	3
(ii) All other bearings.....	3
Railway carriages and wagons (all carriage and wagon bearings).....	4
Rolling mills (all types).....	4
Steam engines, reciprocating :—	
(a) Locomotives—	
(i) Axle box, connecting rod and coupling rod bearings.....	1
(ii) All other bearings.....	2
(b) Marine, main propulsion—	
(i) Main, crosshead, and connecting rod big-end.....	2
(ii) All other bearings.....	3
(c) Ordinary marine auxiliaries—	
(i) Steering engines.....	2
(ii) Main, crosshead, and connecting rod bearings.....	2
(iii) All other bearings.....	3

	Group No.
(d) Stationary—	
(i) Main, crosshead connecting rod bearings.....	2
(ii) All other bearings.....	3
Suspension bearings (vehicular) (all types).....	2
Transmission bearings—	
(a) Road vehicle gear boxes (all bearings).....	3
(b) Machine tool gear boxes (see separate classification for machine tools).....	3
(c) Reduction gears—	
(i) Turbine.....	1
(ii) Other.....	2
(d) Power transmission shafting bearings.....	4
(e) Marine stern tube bearings.....	2
(f) Michell thrust bearings.....	1
(g) Roller and chain conveyors.....	4
Turbines (steam)—	
(a) Main ship propulsion—	
(i) Rotor (main) bearings.....	3
(ii) Other bearings.....	3
(b) Industrial—	
(i) Rotor bearings.....	1
(ii) Other bearings.....	3

*When lead-containing materials are permissible.