DEPARTMENT OF HEALTH & HUMAN SERVICES

Centers for Disease Control
and Prevention (CDC)
National Institute for Occupational
Safety and Health (NIOSH)
National Personal Protective
Technology Laboratory (NPPTL)
626 Cochrans Mill Road
Pittsburgh, PA 15236-0070
Phone: 412-386-4000
Fax: 412-386-4051

NIOSH Reference: TN-25417
Mfr. Reference: MAK-2139

February 10, 2022

Bob Wen
Makrite Industries, Inc.
11F-5, No.79, Sec 1, Hsin Tai Wu Road
Xizhi Dist
New Taipei City, 221
TAIWAN

Dear Bob Wen:

The National Institute for Occupational Safety and Health (NIOSH) has reviewed the request referenced above and accepted November 15, 2021. This request was for five extensions of approvals to update assembly matrices to indicate the existing respirator color variants. The color variants include those added to the headstraps, valves and outer layer and appear in the "Description" row on the assembly matrices. The approval numbers and complete respirator configurations are detailed on the five assembly matrices contained in the project file.

This request is granted for five approvals. Approvals are granted only for documentation written in the English language. It is the approval holder's responsibility to correctly translate materials desired in languages other than English.

Since this request does not affect the full approval labels, final labels are not enclosed.

The approved assemblies consist of the parts as listed on the approval labels and the assembly matrices. The full and abbreviated approval labels must be presented to users as approved by NIOSH, including the cautions and limitations as listed. Parts are to be marked with the numbers indicated on the approval labels in a legible and permanent manner (marking cannot be removed without evidence of its previous presence).

No changes may be made to any respirators and accompanying documentation without prior written approval of NIOSH. Requests for changes must be submitted to NIOSH and a modification of this approval must be granted before changes are made.

Sincerely,

Jeffrey Peterson
Chief, Conformity Verification and
Standards Development Branch

Enclosure
CC: Adam Freedman

DEPARTMENT OF HEALTH & HUMAN SERVICES

Centers for Disease Control
and Prevention (CDC)

National Institute for Occupational
Safety and Health (NIOSH)
National Personal Protective
Technology Laboratory (NPPTL)
626 Cochrans Mill Road
Pittsburgh, PA 15236-0070
Phone: 412-386-4000
Fax: 412-386-4051

NIOSH Reference: TN-25417
Mfr. Reference: MAK-2139

February 10, 2022

Bob Wen
Makrite Industries, Inc.
11F-5, No.79, Sec 1, Hsin Tai Wu Road
Xizhi Dist
New Taipei City, 221
TAIWAN

Dear Bob Wen:

The National Institute for Occupational Safety and Health (NIOSH) has reviewed the request referenced above and accepted November 15, 2021. This request was for five extensions of approvals to update assembly matrices to indicate the existing respirator color variants. The color variants include those added to the headstraps, valves and outer layer and appear in the "Description" row on the assembly matrices. The approval numbers and complete respirator configurations are detailed on the five assembly matrices contained in the project file.

This request is granted for five approvals. Approvals are granted only for documentation written in the English language. It is the approval holder's responsibility to correctly translate materials desired in languages other than English.

Since this request does not affect the full approval labels, final labels are not enclosed.

The approved assemblies consist of the parts as listed on the approval labels and the assembly matrices. The full and abbreviated approval labels must be presented to users as approved by NIOSH, including the cautions and limitations as listed. Parts are to be marked with the numbers indicated on the approval labels in a legible and permanent manner (marking cannot be removed without evidence of its previous presence).

No changes may be made to any respirators and accompanying documentation without prior written approval of NIOSH. Requests for changes must be submitted to NIOSH and a modification of this approval must be granted before changes are made.

Sincerely,

Jeffrey Peterson
Chief, Conformity Verification and
Standards Development Branch

Enclosure
CC: Adam Freedman

National Institute for Occupational Safety and Health
Respirator Branch
Test Data Sheet

Task Number: TN-24523 **Reference No.:** CFR 84.172
Test: Exhalation Resistance Test **STP No.:** 3
Manufacturer: Makrite Industries, Inc.

Filter Type: Filter Only

Item Tested: 9600-N95S

Sample	Maximum Allowable Resistance (MM of H2O) Exhalation	Actual Resistance (MM of H2O) Exhalation	Result
1	25	8.6	PASS
2	25	8.4	PASS
3	25	8.6	PASS

Overall Result: PASS

Comments:

Samples were tested on manometer 000505.

Was all equipment verified to be in calibration throughout all testing? (•) Yes ( ) No

Signature: Jordan L. Baker **Date:** 2/24/2021

Engineering Technician

Task Number: TN-24523 **Reference No.:** CFR 84.172
Test: Exhalation Resistance Test **STP No.:** 3
Manufacturer: Makrite Industries, Inc.

Signature: _____ **Date:** 2/24/2021

Engineering Technician

National Institute for Occupational Safety and Health
Respirator Branch
Test Data Sheet

Task Number: TN-24523
Test: Inhalation Resistance Test
Manufacturer: Makrite Industries, Inc.
Item Tested: 9600-N95S

Reference No.: CFR 84.172
STP No.: 7

Filter Type: Filter Only

Sample	Maximum Allowable Resistance (MM of H2O) Inhalation	Actual Resistance (MM of H2O) Inhalation	Result
1	35	7.9	PASS
2	35	9.1	PASS
3	35	9.1	PASS

Overall Result: PASS

Signature: Linda L. Baker

Date: 2/24/2021

Engineering Technician

Task Number: TN-24523
Test: Inhalation Resistance Test
Manufacturer: Makrite Industries, Inc.
Item Tested: 9600-N95S

Reference No.: CFR 84.172
STP No.: 7

Comments:
Samples were tested on manometer 000034.

Was all equipment verified to be in calibration throughout all testing?	◉ **Yes**	○ **No**

Signature: Jordan L. Baker **Date:** 2/24/2021

Engineering Technician

National Institute for Occupational Safety and Health
Evaluation and Testing Branch
Test Data Sheet

Task Number: TN-24523 **Reference No.:** CFR 84.174
Test: Sodium Chloride (NaCl) - N95 **STP No.:** 59
Manufacturer: Makrite Industries, Inc.
Item Tested: 9600-N95S

Filter	Flow Rate lpm	Initial Filter Resistance mm water gauge	Maximum Allowable Percent Leakage	Initial Percent Leakage	Maximum Percent Leakage	Result
1	85	7.5	5.00	0.073	0.379	PASS
2	85	8.4	5.00	0.077	0.391	PASS
3	85	8.3	5.00	0.105	0.388	PASS
4	85	8.9	5.00	0.081	0.376	PASS
5	85	8.6	5.00	0.134	0.492	PASS
6	85	8.4	5.00	0.145	0.488	PASS
7	85	8.3	5.00	0.129	0.716	PASS
8	85	9.0	5.00	0.125	0.653	PASS
9	85	9.7	5.00	0.157	0.575	PASS
10	85	9.1	5.00	0.205	0.831	PASS
11	85	9.5	5.00	0.118	0.690	PASS
12	85	9.3	5.00	0.146	1.512	PASS
13	85	9.2	5.00	0.135	0.607	PASS
14	85	10.1	5.00	0.131	0.573	PASS
15	85	7.7	5.00	0.099	0.570	PASS
16	85	9.0	5.00	0.279	0.968	PASS
17	85	8.4	5.00	0.182	1.459	PASS
18	85	8.5	5.00	0.256	1.170	PASS
19	85	8.5	5.00	0.094	0.555	PASS
20	85	8.9	5.00	0.085	0.479	PASS

Overall Result: PASS

Signature: Linda L. Johnson **Date:** 2/26/2021

Engineering Technician

Form revision: 1.1 2 October 2019

Task Number: TN-24523 **Reference No.:** CFR 84.174

Test: Sodium Chloride (NaCl) - N95 **STP No.:** 59

Manufacturer: Makrite Industries, Inc.

Item Tested: 9600-N95S

Comments:

Sample 1-6 were tested on TSI 8130A machine 000388. Samples 7-14 were tested on TSI 8130A machine 000545. Samples 15-20 were tested on TSI 8130A machine 000546. Flow rate is measured in liters/min. Resistance is measured in mm H2O.

Was all equipment verified to be in calibration throughout all testing?	◉ **Yes**	◯ **No**

Signature: Linda L. Wilson **Date:** 2/26/2021

Engineering Technician