

Laboratory **NACL Industries Limited, Plot No. 177, Arinama Akkivalasa Village,
Allinagaram Post, Etcherla Mandal, Dist. Srikakulam, Andhra Pradesh**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-6722**

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Validity **23.11.2018 to 22.11.2020**

Last Amended on --

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|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

CHEMICAL TESTING

| | | | | |
|-----------|-------------------------------|---|---|------------------|
| I. | PESTICIDE FORMULATIONS | | | |
| 1. | Tricyclazole Technical | Active Ingredient | NACLIVM002, Rev:00, Effective Date:13-8-2016 | 90 % to 100 % |
| | | Moisture Content | IS 2362:2010 | 0.05 % to 1.00 % |
| | | Acidity | IS 6940:1982 (Cl. 11.3.2) | 0.01 % to 1.00 % |
| | | Impurity Profile | | |
| | | Triazole (IR-2) | NACLIVM013, Rev:00, Effective Date:13-8-2016 | 0.03 % to 0.50 % |
| | | 2,2-Hydrazobis(4-methyl benzothiazole) (Hydrazobis) | NACLIVM013, Rev:00, Effective Date:13-8-2016 | 0.05 % to 2.50 % |
| | | 4-Methyl 1,3-benzothiazol-2(3H)-one (IR-3) | NACLIVM013, Rev:00, Effective Date:13-8-2016 | 0.03 % to 0.30 % |
| | | 6-Chloro tricyclazole (IR-6) | NACLIVM013, Rev:00, Effective Date:13-8-2016 | 0.03 % to 0.30 % |
| | | 2,2-Azobis(4-methyl benzothiazole) (Azobis) | NACLIVM013, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.50 % |
| 2. | Profenofos Technical | Active Ingredient | NACLIVM005, Rev:00, Effective Date:13-8-2016 | 89 % to 100 % |
| | | Moisture Content | IS 2362: 2010 | 0.02 % to 0.50 % |
| | | Acidity | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.02 % to 0.50 % |
| | | Impurity Profile | | |
| | | Chlorobenzene (BP 15) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.01 % to 2.00 % |
| | | O,O,S-triethyl-thiophosphate (BP 14) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.50 % |
| | | 4-bromo-2-chlorophenol (BP 2) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.03 % to 1.00 % |

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| | | O-O-diethyl-S-n-propyl-thiophosphate (BP 5) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.03 % to 1.00 % |
| | | O-(2-chloro-phenyl)-O-ethyl-S-n-propyl-thiophosphate (BP 6) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.02 % to 1.00 % |
| | | O-(4-bromo-2-chloro-phenyl)-O-O-diethyl-thiophosphate (BP 12) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.50 % |
| | | O-(2,4-dichloro-phenyl)-O-ethyl-S-n-propyl-thiophosphate (BP 4) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.50 % |
| | | O-(2,4-dibromo-phenyl)-O-ethyl-S-n-propyl-thiophosphate (BP 7) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.05 % to 1.00 % |
| | | O-(2,4-dibromo-6-chloro-phenyl)-O-ethyl-S-n-propyl-thiophosphate (BP 8) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.05 % to 2.50 % |
| | | N-propylbromide (BP 13) | NACLIVM010, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.50 % |
| 3. | Propiconazole Technical | Active Ingredient | NACLIVM003, Rev:00, Effective Date:13-8-2016 | 88 % to 100 % |
| | | Moisture Content | IS 2362 : 2010 | 0.01 % to 0.50 % |
| | | Acidity | IS 6940 : 1982 (Cl. 11.3.2) | 0.01 % to 0.50 % |
| | | Impurity Profile | | |
| | | 2-(2,4-Dichlorophenyl)-2-methyl-4-propyl-1,3-dioxolan (Acetol) | NACLIVM016, Rev:00, Effective Date:13-8-2016 | 0.01 % to 1.00 % |
| | | 2-Bromomethyl-2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan (BKL) | NACLIVM016, Rev:00, Effective Date:13-8-2016 | 0.05 % to 2.00 % |
| | | 2-Hydroxymethyl-2-(2,4-Dichlorophenyl) | NACLIVM016, Rev:00, Effective Date:13-8-2016 | 0.01 % to 2.50 % |

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| | | 4-propyl- 1,3-dioxolan (Hydroxy) | | |
| | | 2-Dibromomethyl-2-(2,4-Dichlorophenyl)-4-propyl- 1,3-dioxolan (Dibromo) | NACLIVM016, Rev:00, Effective Date:13-8-2016 | 0.01 % to 1.00 % |
| | | 4-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl-methyl)-4H-1,2,4-triazole (High Boiler) | NACLIVM016, Rev:00, Effective Date:13-8-2016 | 0.20 % to 5.00 % |
| 4. | Flucarbazone-Sodium Technical | Active Ingredient | NACLIVM006, Rev:00, Effective Date:13-8-2016 FLU-100 (Version 1.0) (LC Method) | 90 % to 100 % |
| | | Moisture Content | IS 2362 : 2010 | 2.00 % to 6.00 % |
| | | Impurity Profile | | |
| | | 2,4-Dihydro-5-methoxy-4-methyl-3H-1,2,4-Triazole-3-one (MMT) | NACLIVM009, Rev:00, Effective Date:13-8-2016 | 0.10 % to 1.00 % |
| | | 2-(Trifluoromethoxy) benzenesulfonic acid (TFMBSA-Sodium) | NACLIVM009, Rev:00, Effective Date:13-8-2016 | 0.01 % to 1.00 % |
| | | 2-(Trifluoromethoxy) benzenesulfonamide (Sulfonamide) | NACLIVM009, Rev:00, Effective Date:13-8-2016 | 0.01 % to 1.00 % |
| | | 4,5-Dihydro-3-methoxy-5-oxo-N-[[2-(trifluoromethoxy) phenyl] sulfonyl]-1H-1,2,4-triazole-1-carboxamide (N-Desmethyl MKH 6562-Sodium) | NACLIVM009, Rev:00, Effective Date:13-8-2016 | 0.01 % to 1.00 % |

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| | | 4,5-Dihydro-4-methyl-3-(methylthio)-5-oxo-N-[[2-(trifluoromethoxy) phenyl] sulfonyl]-1H-1,2,4-triazole-1-carboxamide, sodium salt (Thio MKH 6562-Sodium) | NACLIVM009, Rev:00, Effective Date:13-8-2016 | 0.10 % to 1.00 % |
| 5. | Pretilachlor Technical | Active Ingredient | IS 15158:2002 | 90% to 100 % |
| | | Moisture Content | IS 2362:2010 | 0.01% to 0.40 % |
| | | Acidity | IS 6940:1982 | 0.01% to 0.40 % |
| 6. | Thifluzamide Technical | Active Ingredient | NACLIVM007, Rev:00, Effective Date:13-8-2016 | 90% to 100% |
| | | Moisture Content | IS 2362:2010 | 0.10% to 1.00 % |
| | | Impurity Profile | | |
| | | Thiazole Acid (101) | NACLIVM007, Rev:00, Effective Date:13-8-2016 | 0.02 % to 1.00 % |
| | | Benzenamine, 2,6-dibromo-4-(trifluoromethoxy) (IMP-102) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.60 % |
| | | Acetamide, N-[2,6-dibromo-4-(trifluoromethoxy)phenyl]- (IMP - 104) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.30 % |
| | | 5-Triazolecarboxamide, N-[2-bromo-4-(trifluoromethoxy)-phenyl]-2-methyl-4-(trifluoromethyl) (Impurity -108) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.08 % |

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| | | 4-Triazolecarboxamide, N-[2,6-dibromo-4-(trifluoromethoxy)-phenyl]-5-(trifluoromethyl) (IMP - 109) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.05 % |
| | | 5-Triazolecarboxamide, N-[2,6-dibromo-4-(trifluoromethoxy)-phenyl]-4-(trifluoromethyl) (IMP-110) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.30 % |
| | | 5-Triazolecarboxamide, 2-methyl-N-[2,4,6-tribromo-3-(trifluoromethoxy)phenyl]-4-(trifluoromethyl)- (IMP-116) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.01 % to 0.30 % |
| | | 5-Triazolecarboxamide, N-[2,6-dibromo-4-(trifluoromethoxy)-phenyl]-2-methyl-N-[[2-methyl-4-(trifluoromethyl)-5-thiazolyl]-carbonyl]-4-(trifluoromethyl) (IMP-118) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.05 % to 0.40 % |
| | | 5-Triazolecarboxylic acid, 4-(trifluoromethyl)-, 1,2-bis[2,6-dibromo-4-(trifluoromethoxy)-phenyl]-2-formylhydrazine (IMP-119) | NACLIVM012, Rev:00, Effective Date:13-8-2016 | 0.05 % to 0.50 % |

Ruchi Guntuku
Convenor

Sunita Rawat
Program Manager

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| 7. | Metribuzin Technical | Acidity Content | IS 6940:1982 (Cl 11.3.2) | 0.02 % to 0.5 % |
| | | Acidity Ingredient | CIPAC-283/TC/M: 1984 | 88 % to 100 % |
| | | Moisture Content | IS 2362:2010: 2010 | 0.05 % to 0.50 % |
| 8. | Myclobutanil Technical | Active Ingredient | NACLIVM004, Rev:00, Effective Date:13-8-2016 | 90 % to 100 % |
| | | Moisture Content | IS 2362:2010 | 0.01 % to 0.50 % |
| | | Acidity | IS 6940:1982 (Cl. 11.3.2) | 0.02 % to 0.50 % |
| 9. | Diacetone Acrylamide (DAAM) Technical | pH | IS 15557:2005 | 4.00 to 8.00 |
| | | Melting point | IS 6940:1982 (Cl. 11.3.2) | 55.0 °C to 59.0 °C |