

TEST REPORT

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Test Report No. : 25-26/10548

Report Date : 28-08-2025

ZDHC MRSL Level 1 Version 3.1 Conformance

Customer Name	Biogent Lanka Pvt Ltd
Address	189-D/2/1, Sri Vajiragnana Mawatha, Dematagoda, Colombo 09, Sri Lanka
Contact person	M I A Fahim
Product Name	Sapolux V, X, XV
Sample Type	Detergent
Application Area	Scouring, Soaping
Sample Condition	Liquid
Date of Sample Receipt	20-08-2025
Test Period	From 20-08-2025 To 28-08-2025
Test Program	The tests have been carried out as per 'Annex A' of the ZDHC MRSL V3.1, Conformance Guidance V2.1 Document
Validity of Test Report	27-08-2027
General Inquiries/ feedback/Technical inquiries: lab@nimkartek.com	

Conclusion:

The submitted sample conforms to the ZDHC MRSL Level 1 (version 3.1) criteria

NimkarTek Technical Services Pvt. Ltd.

3rd Floor Narmada, Laxmi Industrial Complex, Vartak Nagar, Pokhran Road No. 1, Thane (W) – 400606, India.

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ISO/IEC 17025:2017 accredited laboratory | CIN No.: U74120MH2012PTC229542



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Sample Photo :



Executive Summary :

ZDHC MRSL V 3.1 Group	Test Method	Pass/ Fail/NA
Ortho Phenyl Phenol (OPP)- Anti microbials and Biocides	Based on ISO 13365-1: 2020, Solvent extraction followed by HPLC-DAD	Pass
Dimethyl Fumarate (DMFu)-Anti microbials and Biocides	Based on ISO 16186 : 2021	Pass
Permethrin-Anti microbials and Biocides	In house Test Method – Solvent Extraction followed by GC-MS-ECD	Pass
Triclosan -Anti microbials and Biocides	Based on ISO 22992-2, Solvent extraction followed by LC-DAD-MS	Pass
Glycols	In-house Test Method - Solvent Extraction followed by GC-MS/ GC-MS-Headspace	Pass
Halogenated Solvents	In-house Test Method; Solvent Extraction followed by GC-MS Headspace/ GC-MS; Analysis of Benzyl Chloride: Based on EN 17137-2024 followed by HPLC- DAD	Pass
N,N - Dimethyl Formamide (DMFa)- Organic Solvent	Based on ISO/TS 16189	Pass
APEOs + APs	Based on EN 18254-1 :2016	Pass

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1. Analysis of Ortho Phenyl Phenol (OPP)- Anti microbials and Biocides

Test Method : Based on ISO 13365-1: 2020, Solvent extraction followed by HPLC-DAD

Detection Limit : 100.0 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	o-Phenylphenol	90-43-7	Not Detected	5000

2. Analysis of Dimethyl Fumarate (DMFu)-Anti microbials and Biocides

Test Method : Based on ISO 16186 : 2021

Detection Limit : 5.0 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	Dimethyl Fumarate	624-49-7	Not Detected	10

3. Analysis of Permethrin-Anti microbials and Biocides

Test Method : In house Test Method – Solvent Extraction followed by GC-MS-ECD

Detection Limit : 25.0 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	Permethrin	52645-53-1	Not Detected	250

4. Analysis of Triclosan -Anti microbials and Biocides

Test Method : Based on ISO 22992-2, Solvent extraction followed by LC-DAD-MS

Detection Limit : 50.0 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	Triclosan	3380- 34-5	Not Detected	250

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5. Analysis of Glycols

Test Method : In-house Test Method - Solvent Extraction followed by GC-MS/ GC-MS-Headspace

Detection Limit : 15 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	Bis(2-methoxyethyl)-ether	111-96-6	Not Detected	50
2	2-ethoxyethanol	110-80-5	Not Detected	50
3	2-ethoxyethyl acetate	111-15-9	Not Detected	50
4	Ethylene glycol dimethyl ether	110-71-4	Not Detected	50
5	2-methoxyethanol	109-86-4	Not Detected	50
6	2-methoxyethylacetate	110-49-6	Not Detected	50
7	Triethylene glycol dimethyl ether	112-49-2	Not Detected	50
8	2-Methoxypropyl acetate	70657-70-4	Not Detected	50
9	2-Methoxypropanol	1589-47-5	Not Detected	50

6. Analysis of Halogenated Solvents

Test Method : In-house Test Method; Solvent Extraction followed by GC-MS Headspace/ GC-MS; Analysis of Benzyl Chloride: Based on EN 17137-2024 followed by HPLC-DAD

Detection Limit : Trichloroethylene and Benzyl Chloride : 5 mg/kg | for other : 2.5 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	1,2 dichloroethane	107-06-2	Not Detected	5
2	Methylene Chloride	75-09-2	Not Detected	5
3	Trichloroethylene	79-01-6	Not Detected	40
4	Tetrachloroethylene	127-18-4	Not Detected	5
5	Benzyl Chloride	100-44-7	Not Detected	50 / 100 for Dyes

7. Analysis of N,N - Dimethyl Formamide (DMFa)- Organic Solvent

Test Method : Based on ISO/TS 16189

Detection Limit : 10 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	N, N-Dimethylformamide	68-12-2	Not Detected	1000

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8. Analysis of APEOs + APs

Test Method : Based on EN 18254-1 :2016

Detection Limit : 10.0 mg/kg

Result :

Sr. No.	Test	CAS No.	Result (mg/kg)	ZDHC MRSL V 3.1 Limit (mg/kg)
1	Nonylphenol (NP)	104-40-5	Not Detected	100
2	Octylphenol (OP)	1806-26-4	Not Detected	100
3	Nonylphenol Ethoxylates (NPEO)	127087-87-0	Not Detected	250
4	Octylphenol Ethoxylates (OPEO)	9002-93-1	Not Detected	250

Authorized Signatory

Praful Gole

Authorized Signatory

Varsha Vishwasrao

****End of the Test Report****



25-26-10548-1

NOTE:

- **Scope of Results:** The test results are specific to the sample tested.
- **Report Findings:** This Test Report presents the final results. Any additional information can be furnished upon written request.
- **Client-Requested Testing:** The testing has been conducted as per the client's explicit request.
- **Sampling Responsibility:** Sampling of the material is not performed by the laboratory.
- **Adherence to Standards:** The laboratory has ensured that all test conditions comply with international testing standards.
- **Sample Retention:**
 - o Remnant samples will be retained for up to 6 months.
 - o Samples related to ZDHC MRSL Certification will be preserved for 18 months.
- **Report Verification:** Please scan the QR code included in this report to verify its authenticity.

DISCLAIMER:

This test report is prepared solely based on the information, instructions, and samples/materials provided by the Customer or a third party acting on the Customer's behalf. It is not intended as a recommendation for any specific course of action. Modification or alteration of this Test Report by the Client is strictly prohibited. Written consent is mandatory for the publication or duplication of the Test Report for promotional purposes or partial use for other purposes. Results submitted electronically are for informational purposes only. They do not serve as a warranty regarding the representativeness of the sample(s) to any goods or materials and strictly apply to the submitted sample(s). Please scan the QR code provided in this report to verify its authenticity. NimkarTek Technical Services Pvt. Ltd. assumes no liability concerning the origin or source of the submitted sample(s) or in relation to this report. The terms and conditions of NimkarTek Technical Services Pvt. Ltd. apply.

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