



BEN TECH CHEMICAL CO., LTD.

97/30 MOO 4 BANGNA-TRAD RD., TAMBON BANGCHALONG,
BANGPLEE, SAMUTPRAKARN, THAILAND, 10540

T: 66-2-3361298, F: 66-2-3360426

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BEN TECH CHEMICAL COMPANY LIMITED - commitment to the Zero Discharge of Hazardous Chemicals Manufacturing Restricted Substances List - Edition 3

In the Zero Discharge of Hazardous Chemicals (ZDHC) Joint Roadmap, Version 2, ZDHC member brands are committed to define and develop a Manufacturing Restricted Substances List (MRSL) for the apparel and footwear industry. The ZDHC MRSL addresses hazardous substances potentially used and discharged into the environment during manufacturing and related processes, not just those substances that could be present in finished products.

The ZDHC MRSL is a list of chemical substances subject to a usage ban, meaning that the MRSL-listed chemical substance or group of substances may not be used to achieve a desired function or effect during production of the raw material or product (that is, no intentional use). Due to the existence of manufacturing impurities in chemical formulations, a minor or trace amount of the restricted substance is permitted within defined concentration limits.

Chemical formulations containing restricted substances that exceed these limits are not compliant with the MRSL.

Restricted substances and groups of substances according to MRSL of ZDHC (details on chemicals and individual limits see MRSL) are:

- Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)
- Chlorobenzenes & Chlorotoluenes
- Chlorophenols
- Dyes – Azo (Forming Restricted Amines) *
- Dyes – Navy Blue Colorant
- Dyes – Carcinogenic or Equivalent Concern
- Dyes – Disperse (Sensitizing) *
- Flame Retardants *
- Glycols *
- Halogenated Solvents
- Organotin Compounds
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Perfluorinated and Polyfluorinated Chemicals (PFCs) *
- Phthalates – including all other esters of ortho-phthalic acid
- Total Heavy Metals
- Volatile Organic Compounds (VOC) *

* The current MRSL restricts only individual substances and not the whole substance group

** <http://www.roadmaptozero.com/programme-documents.php>

Please be advised that, based on the information available to us from our raw material suppliers, the current products offered in the product lines listed below do not contain any of the substances or group of substances (i) as intentionally added raw materials or (ii) as impurities above the limit specified in the MRSL of ZDHC Programm, current version:

• MRSL V1.1 (published 9th December, 2015) **

Chapter 1: MRSL for Textiles and Synthetic Leather Processing.

To the best of our knowledge, none of these substances are intentionally generated during production.



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This confirmation is only valid for the above mentioned MRSL version and will expire when amended by BENTECH CHEMICAL COMPANY LIMITED.

The information given in this confirmation is based on our current knowledge on the date of issue of this document. It contains information which complements our Material Safety Data Sheets (MSDS) and Technical Data Sheets (TDS). However, as fields of application and/or conditions of use cannot be respected in this document, the users of our products should carefully check the information given in our MSDS and TDS and/or carry out tests for themselves in order to ensure the compliance with any legal requirements and/or specific requirements of any Restricted Substance List (RSL) of a Brand.

For any questions concerning the products listed below or any further product information needed, please contact:

This list contains only selected products from BENTECH CHEMICAL COMPANY LIMITED's product range. Please do not hesitate to contact us in order to check the individual compliance status of any unlisted product of our product range.



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LIMING GROUP



SYSTEM
PARTNER



SIZING AGENTS

PVA

BENSIZ PVA

STARCH

TAPIOCA STARCH

MODIFIED STARCH

BENSIZ B-55

BENSIZ B-120

BENSIZ K-2000

BENSIZ K-9000

NANO MODIFIED STARCH

BENSIZ K-8000

CMS

BENSIZ B-99

ACRYLIC SIZE

BENSIZ KU-350

BENSIZ LMA-3210

BENSIZ E-850

BENSIZ E-650

COMPOUND SIZE

BENSIZ PC-800

BENSIZ CM-500

BENSIZ CM-850

BENSIZ PC-650

BENSIZ TCM

BENSIZ K-1807

BENSIZ K-6000

BENSIZ K-1207

BENSIZ AD-K

SIZING WAX

BENSIZ P-110

BENSIZ M-85

BENSIZ B-60

AFTER WAX

BENSIZ A-82

AFTER OIL

BENSIZ KN-60

BENSIZ AW-36

WATER JET SIZE

BENSIZ NP-68

FILAMENT SIZE

BENSIZ F-25

ANTI-STATIC AGENT

MARKTAIN 963

BENSIZ G-110

DYE AUXILIARIES (PRE-TREATMENT)

ENZYME FOR DESIZING

BENZYME C-188

BENZYME C-388

SCOURING AGENT

BENMORLE FS-30

BENMORLE MFB-50

SEQUESTERING AGENT

BENQUEST C-80F

BENQUEST C-600

BENQUEST C-690

BENQUEST CA-170

WETTING AGENT

BENVADINE PT-70N

BENVADINE MK-25

MERCERIZING AGENT

BENVADINE MR-100

STABILIZER FOR H₂O₂

BENRISE PB

KILLER OF H₂O₂

BENZYME DHP

THREE-IN-ONE AGENT

BENMORLE NANO-100

DYE AUXILIARIES (DYEING PROCESS)

WETTING AGENT FOR INDIGO

BENWET TD-W

BENWET NF-K

BENWET EH-K

BENWET RD-999

WETTING AGENT FOR CHEESE DYEING

BENVADINE IW-643

LEVELING & DISPERSING AGENT

BENTRON RM-340H

BENTRON K-500

BENTRON S-7000

BENTRON DS-P

LEVELING AGENT FOR NYLON, ACRYLIC, COTTON

BENLON AD-N

BENLON N-900

BENLEVER AN

BENLEVER RL-T

ANTI-CREASE AGENT



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BENSOF A-12

ANTI-BARRIER AGENT FOR NYLON, POLYESTER

BENLON BR-1

BENTRON PL-7

RETARDING AGENT FOR ACRYLIC YARN

BENLEVER PAN-650

ANTI-YELLOWING AGENT FOR NYLON

BENLON ANT-Y

DEFOAMER

DEFOAMER JCA

DEFOAMER JCK

SOAPING AGENT FOR COTTON DYEING & PRINTING

BENMORLE RS-P

BENMORLE RC-117W

FIXING AGENT FOR REACTIVE, DIRECT, ACID DYES

BENFIX A-22

BENFIX NPT

BENFIX RF-5000N

BENFIX RF-918

SODIUM ALGINATE FOR PRINTING

BENSIZ SA-100

REDUCTION CLEANING AGENT

FA-004A

FA-300

FINISHING PROCESS

NON-IONIC SOFTENER

BENSOF M-8610

BENSOF AC-100

BENSOF CD-615N

CATIONIC SOFTENER

BENSOF WQC-100

BENSOF A-300K

BENSOF AM-8315

SILICONE SOFTENER

BENSOF HRC-70

HYDROPHILIC SOFTENER (FOR TOWEL & FABRIC)

BENSOF CD-620

RASING AGENT

BENSOF S-450

PE WAX EMULSION

BENSOF PE-25

WATER REPELLENT AGENT

BENPEL CO-955

BENPEL TF-305

ROSS LINKING AGENT

BENFIN M-200A

INCREASE DEEP OF SHADE AGENT

BENFIN ACE-25R

MACHINE CLEANING AGENT

BENCLEAN SC-100N

GARMENTS WASH

ENZYME FOR DESIZING

BENZYME C-388

ANTI-BACK STAIN

BENMORLE CK-100

ENZYME FOR GARMENT WASH

BENZYME TF-300

BENZYME DP-558

WASTE WATER TREATMENT

DE-COLORING AGENT

BENFILL E-20

BENFILL DC-80

BENFILL WTA-P

POLYMER (POLYELECTROLYTE)

Polymer AA

Polymer CAT

POLY ALUMINIUM CHLORIDE

PAC