



(51) International Patent Classification:

C09K 8/03 (2006.01)

C09K 8/54 (2006.01)

(21) International Application Number:

PCT/US2023/067461

(22) International Filing Date:

25 May 2023 (25.05.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/350,311

08 June 2022 (08.06.2022)

US

(71) Applicant: CHAMPIONX USA INC. [US/US]; 11177

South Stadium Drive, Sugar Land, TX 77478 (US).

(72) Inventor: MOLONEY, Jeremy; 3411 South Lake Village

Drive, Katy, TX 77450 (US).

(74) Agent: BABYCH, Eric, D.; Barnes & Thornburg Llp, 299

South Main Street, Suite 1825, Salt Lake City, UT 84111

(US).

(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,

DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: CHEMICAL TREATMENT COMPOSITIONS AND METHODS OF USING THE SAME



FIG. 1A

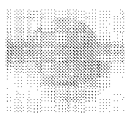


FIG. 1B



FIG. 1C



FIG. 1D



FIG. 1E



FIG. 1F

(57) Abstract: A composition including a powder and a liquid treatment chemical is provided. The powder includes sodium bicarbonate, calcium carbonate, citric acid, oxalic acid, palmitic acid, tartaric acid, and/or maleic acid. The liquid treatment chemical may be an organic sulfur compound, an imidazoline, a carboxylic acid, a fatty acid amine condensate, a substituted fatty acid ester, a substituted aromatic amine, a phosphoric acid ester, a quaternary ammonium compound, a compound having multiple positive charges, and any combination thereof. The composition may be in the form of a tablet. A composition having a liquid treatment chemical disposed within a water-soluble container is also provided.

