

H101604

#1016

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 1 Reactivity = 0
HMIS RATING: Health = 1 Flammability = 1 Reactivity = 0

SECTION I - IDENTIFY AND MANUFACTURER'S INFORMATION

(445N-60A)

Manufacturer's Name: HILLYARD INDUSTRIES**Product Name:** QUICK & CLEAN SUPER HIL-TONE**Address:** 392 North Fourth Street**Date Prepared:** September 15, 2004

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department**Emergency Telephone No.:** (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)**Other information calls:** (816) 233-1321 (Ext. 8285)<http://www.hillyard.com>**SECTION II - INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:****Common Name(s)****CAS#****OSHA****ACGIH****OTHER LIMITS****PEL****TLV****%**

Petroleum distillate (solvent-refined heavy and light paraffinic)

64741-88-4 &
64741-89-55 mg/M³5 mg/M³10 mg/M³

94-99

Aliphatic hydrocarbon petroleum naphtha

64742-88-7

100 ppm*

100 ppm*

not applicable

less than
5%

VOC = Less than 7%.

*Not established for this CAS #; use Standard Solvent (CAS #8052-41-3) for PEL & TLV.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**Boiling Point:** 225°F**Specific Gravity (H₂O = 1):** 25°C = 0.86 & 39°C = 0.85**Vapor Pressure (mm Hg):** 6.6**Percent Volatile by Volume (%):** 6**Vapor Density (Air = 1):** 4.0**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water:** negligible**Appearance and Odor:** slightly yellow - clear to translucent liquid;
pleasant odor**Auto-Ignition:** 243°C**SECTION IV - FIRE AND EXPLOSION HAZARD DATA****Flash point:** 22°F (Pensky-Marten
Closed Cup)**Flammable Limits:** LEL = not established UEL = not established**Extinguishing Media:** Use water spray, regular foam, CO₂ or carbon dioxide fire fighting apparatus.**Special Fire Fighting Procedures:** The use of self-contained breathing apparatus is recommended for fire fighters. Wear structural firefighters protective clothing.**Unusual Fire and Explosion Hazards:** Can be made to burn (flash point 225°F). Incomplete combustion can yield carbon monoxide and various hydrocarbons.**SECTION V - PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** None known**Incompatibility:** Reactions to Avoid: This product is not compatible with strong oxidizing agents, strong acids or bases and selected amines.**Hazardous reactions or Products or Byproducts:** Thermal decomposition in air produces carbon monoxide and carbon dioxide.**Hazardous polymerization:** Will not occur**Conditions to Avoid:** None known**SECTION VI - HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes**HEALTH EFFECTS:** 8 (1, Acute and 2, Chronic)

1. When tested according to Federal Hazardous Substance Act product was not a primary skin irritant but produced moderate irritation. When tested on eyes the concentrate was not an eye irritant. Also test on the concentrate showed that the LC50 was not achieved at 5.0 g/kg. Inhalation testing showed that the LC50 nominal concentration was 3.8 mg/l. Prolonged overexposure by inhalation may cause headache, dizziness, nausea, and fatigue.

2. No data on sensitization.

Chemical Effects: 8 (Chronic) Potential Carcinogen:**National Toxicology Program:** No **I.A.R.C. Monographs =** No **OSHA =** No

This chemical is not listed as a carcinogen by NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI - HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Ingestion may irritate stomach and intestines. May be aspirated into lungs if swallowed, resulting in pulmonary edema and chemical pneumonitis.

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye, skin and respiratory disorders. Isoparaffinic hydrocarbons have caused kidney injury in male rats only. No comparable health hazard for kidney disease is known to occur in humans.

Emergency and First Aid Procedures: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact immediately flush with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If irritation persists get medical attention. Wash clothing before reuse. If swallowed, do not induce vomiting. Call a physician.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled:

Remove all sources of ignition. Avoid breathing vapors or spray mist. Ventilate area and remove with inert absorbent. Do not pick up solution with automatic scrubber or wet pick-up vacuum.

Waste Disposal Method: Dispose of in accordance with state or local regulations. Do not incinerate closed container. Do not dispose of in storm drains or waterways.

Precautions To Be Taken In Handling And Storing: Since empty packages retain product residue, follow label warnings even after package is empty. Keep container closed when not in use.

Other Precautions: Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **USE ONLY WITH ADEQUATE VENTILATION.** This is not to be used in spray mist. **Ensure fresh air entry during application and drying.** If you experience eye irritation, numbness or dizziness, or if air monitoring demonstrates vapor / mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not spray fine fog mist into sparks or open flame - vapors may ignite. Close container after each use. Avoid skin and eye contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. This product contains no known carcinogenicities. This information is subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: (NIOSH type): Usually not needed unless product is misted or heated. Wear appropriate, properly fitted respirator NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are above applicable limits.

Ventilation: At least 10 air changes per hour recommended.

Local Exhaust: Not recommended. **Mechanical (General) = Recommended Special = N/A Other = N/A**

Protective Clothing: Not recommended with normal use. If prolonged contact is unavoidable, wear polyvinyl chloride (PVC); neoprene; nitrile; polyethylene glycol; polyvinyl alcohol; viton.

Eye Protection: Not required with normal use.

Other Protective Clothing: Not recommended for normal use. Protective clothing such as uniforms, coveralls. If prolonged contact is unavoidable, wear nitrile; polyethylene glycol; polyvinyl alcohol (PVA); polyvinyl chloride (PVC); neoprene; nitrile; viton; polyurethane.

Work / Hygienic Practices: Wash container before reuse.

SECTION IX - TRANSPORTATION INFORMATION

Applicable Regulations: 49 CFR 171.01-179.01, 172.01-172.50, 173.01-173.50, 174.01-174.50, 175.01-175.50, 176.01-176.50, 177.01-177.50, 178.01-178.50, 179.01-179.50, 180.01-180.50, 181.01-181.50, 182.01-182.50, 183.01-183.50, 184.01-184.50, 185.01-185.50, 186.01-186.50, 187.01-187.50, 188.01-188.50, 189.01-189.50, 190.01-190.50, 191.01-191.50, 192.01-192.50, 193.01-193.50, 194.01-194.50, 195.01-195.50, 196.01-196.50, 197.01-197.50, 198.01-198.50, 199.01-199.50, 200.01-200.50, 201.01-201.50, 202.01-202.50, 203.01-203.50, 204.01-204.50, 205.01-205.50, 206.01-206.50, 207.01-207.50, 208.01-208.50, 209.01-209.50, 210.01-210.50, 211.01-211.50, 212.01-212.50, 213.01-213.50, 214.01-214.50, 215.01-215.50, 216.01-216.50, 217.01-217.50, 218.01-218.50, 219.01-219.50, 220.01-220.50, 221.01-221.50, 222.01-222.50, 223.01-223.50, 224.01-224.50, 225.01-225.50, 226.01-226.50, 227.01-227.50, 228.01-228.50, 229.01-229.50, 230.01-230.50, 231.01-231.50, 232.01-232.50, 233.01-233.50, 234.01-234.50, 235.01-235.50, 236.01-236.50, 237.01-237.50, 238.01-238.50, 239.01-239.50, 240.01-240.50, 241.01-241.50, 242.01-242.50, 243.01-243.50, 244.01-244.50, 245.01-245.50, 246.01-246.50, 247.01-247.50, 248.01-248.50, 249.01-249.50, 250.01-250.50, 251.01-251.50, 252.01-252.50, 253.01-253.50, 254.01-254.50, 255.01-255.50, 256.01-256.50, 257.01-257.50, 258.01-258.50, 259.01-259.50, 260.01-260.50, 261.01-261.50, 262.01-262.50, 263.01-263.50, 264.01-264.50, 265.01-265.50, 266.01-266.50, 267.01-267.50, 268.01-268.50, 269.01-269.50, 270.01-270.50, 271.01-271.50, 272.01-272.50, 273.01-273.50, 274.01-274.50, 275.01-275.50, 276.01-276.50, 277.01-277.50, 278.01-278.50, 279.01-279.50, 280.01-280.50, 281.01-281.50, 282.01-282.50, 283.01-283.50, 284.01-284.50, 285.01-285.50, 286.01-286.50, 287.01-287.50, 288.01-288.50, 289.01-289.50, 290.01-290.50, 291.01-291.50, 292.01-292.50, 293.01-293.50, 294.01-294.50, 295.01-295.50, 296.01-296.50, 297.01-297.50, 298.01-298.50, 299.01-299.50, 300.01-300.50, 301.01-301.50, 302.01-302.50, 303.01-303.50, 304.01-304.50, 305.01-305.50, 306.01-306.50, 307.01-307.50, 308.01-308.50, 309.01-309.50, 310.01-310.50, 311.01-311.50, 312.01-312.50, 313.01-313.50, 314.01-314.50, 315.01-315.50, 316.01-316.50, 317.01-317.50, 318.01-318.50, 319.01-319.50, 320.01-320.50, 321.01-321.50, 322.01-322.50, 323.01-323.50, 324.01-324.50, 325.01-325.50, 326.01-326.50, 327.01-327.50, 328.01-328.50, 329.01-329.50, 330.01-330.50, 331.01-331.50, 332.01-332.50, 333.01-333.50, 334.01-334.50, 335.01-335.50, 336.01-336.50, 337.01-337.50, 338.01-338.50, 339.01-339.50, 340.01-340.50, 341.01-341.50, 342.01-342.50, 343.01-343.50, 344.01-344.50, 345.01-345.50, 346.01-346.50, 347.01-347.50, 348.01-348.50, 349.01-349.50, 350.01-350.50, 351.01-351.50, 352.01-352.50, 353.01-353.50, 354.01-354.50, 355.01-355.50, 356.01-356.50, 357.01-357.50, 358.01-358.50, 359.01-359.50, 360.01-360.50, 361.01-361.50, 362.01-362.50, 363.01-363.50, 364.01-364.50, 365.01-365.50, 366.01-366.50, 367.01-367.50, 368.01-368.50, 369.01-369.50, 370.01-370.50, 371.01-371.50, 372.01-372.50, 373.01-373.50, 374.01-374.50, 375.01-375.50, 376.01-376.50, 377.01-377.50, 378.01-378.50, 379.01-379.50, 380.01-380.50, 381.01-381.50, 382.01-382.50, 383.01-383.50, 384.01-384.50, 385.01-385.50, 386.01-386.50, 387.01-387.50, 388.01-388.50, 389.01-389.50, 390.01-390.50, 391.01-391.50, 392.01-392.50, 393.01-393.50, 394.01-394.50, 395.01-395.50, 396.01-396.50, 397.01-397.50, 398.01-398.50, 399.01-399.50, 400.01-400.50, 401.01-401.50, 402.01-402.50, 403.01-403.50, 404.01-404.50, 405.01-405.50, 406.01-406.50, 407.01-407.50, 408.01-408.50, 409.01-409.50, 410.01-410.50, 411.01-411.50, 412.01-412.50, 413.01-413.50, 414.01-414.50, 415.01-415.50, 416.01-416.50, 417.01-417.50, 418.01-418.50, 419.01-419.50, 420.01-420.50, 421.01-421.50, 422.01-422.50, 423.01-423.50, 424.01-424.50, 425.01-425.50, 426.01-426.50, 427.01-427.50, 428.01-428.50, 429.01-429.50, 430.01-430.50, 431.01-431.50, 432.01-432.50, 433.01-433.50, 434.01-434.50, 435.01-435.50, 436.01-436.50, 437.01-437.50, 438.01-438.50, 439.01-439.50, 440.01-440.50, 441.01-441.50, 442.01-442.50, 443.01-443.50, 444.01-444.50, 445.01-445.50, 446.01-446.50, 447.01-447.50, 448.01-448.50, 449.01-449.50, 450.01-450.50, 451.01-451.50, 452.01-452.50, 453.01-453.50, 454.01-454.50, 455.01-455.50, 456.01-456.50, 457.01-457.50, 458.01-458.50, 459.01-459.50, 460.01-460.50, 461.01-461.50, 462.01-462.50, 463.01-463.50, 464.01-464.50, 465.01-465.50, 466.01-466.50, 467.01-467.50, 468.01-468.50, 469.01-469.50, 470.01-470.50, 471.01-471.50, 472.01-472.50, 473.01-473.50, 474.01-474.50, 475.01-475.50, 476.01-476.50, 477.01-477.50, 478.01-478.50, 479.01-479.50, 480.01-480.50, 481.01-481.50, 482.01-482.50, 483.01-483.50, 484.01-484.50, 485.01-485.50, 486.01-486.50, 487.01-487.50, 488.01-488.50, 489.01-489.50, 490.01-490.50, 491.01-491.50, 492.01-492.50, 493.01-493.50, 494.01-494.50, 495.01-495.50, 496.01-496.50, 497.01-497.50, 498.01-498.50, 499.01-499.50, 500.01-500.50, 501.01-501.50, 502.01-502.50, 503.01-503.50, 504.01-504.50, 505.01-505.50, 506.01-506.50, 507.01-507.50, 508.01-508.50, 509.01-509.50, 510.01-510.50, 511.01-511.50, 512.01-512.50, 513.01-513.50, 514.01-514.50, 515.01-515.50, 516.01-516.50, 517.01-517.50, 518.01-518.50, 519.01-519.50, 520.01-520.50, 521.01-521.50, 522.01-522.50, 523.01-523.50, 524.01-524.50, 525.01-525.50, 526.01-526.50, 527.01-527.50, 528.01-528.50, 529.01-529.50, 530.01-530.50, 531.01-531.50, 532.01-532.50, 533.01-533.50, 534.01-534.50, 535.01-535.50, 536.01-536.50, 537.01-537.50, 538.01-538.50, 539.01-539.50, 540.01-540.50, 541.01-541.50, 542.01-542.50, 543.01-543.50, 544.01-544.50, 545.01-545.50, 546.01-546.50, 547.01-547.50, 548.01-548.50, 549.01-549.50, 550.01-550.50, 551.01-551.50, 552.01-552.50, 553.01-553.50, 554.01-554.50, 555.01-555.50, 556.01-556.50, 557.01-557.50, 558.01-558.50, 559.01-559.50, 560.01-560.50, 561.01-561.50, 562.01-562.50, 563.01-563.50, 564.01-564.50, 565.01-565.50, 566.01-566.50, 567.01-567.50, 568.01-568.50, 569.01-569.50, 570.01-570.50, 571.01-571.50, 572.01-572.50, 573.01-573.50, 574.01-574.50, 575.01-575.50, 576.01-576.50, 577.01-577.50, 578.01-578.50, 579.01-579.50, 580.01-580.50, 581.01-581.50, 582.01-582.50, 583.01-583.50, 584.01-584.50, 585.01-585.50, 586.01-586.50, 587.01-587.50, 588.01-588.50, 589.01-589.50, 590.01-590.50, 591.01-591.50, 592.01-592.50, 593.01-593.50, 594.01-594.50, 595.01-595.50, 596.01-596.50, 597.01-597.50, 598.01-598.50, 599.01-599.50, 600.01-600.50, 601.01-601.50, 602.01-602.50, 603.01-603.50, 604.01-604.50, 605.01-605.50, 606.01-606.50, 607.01-607.50, 608.01-608.50, 609.01-609.50, 610.01-610.50, 611.01-611.50, 612.01-612.50, 613.01-613.50, 614.01-614.50, 615.01-615.50, 616.01-616.50, 617.01-617.50, 618.01-618.50, 619.01-619.50, 620.01-620.50, 621.01-621.50, 622.01-622.50, 623.01-623.50, 624.01-624.50, 625.01-625.50, 626.01-626.50, 627.01-627.50, 628.01-628.50, 629.01-629.50, 630.01-630.50, 631.01-631.50, 632.01-632.50, 633.01-633.50, 634.01-634.50, 635.01-635.50, 636.01-636.50, 637.01-637.50, 638.01-638.50, 639.01-639.50, 640.01-640.50, 641.01-641.50, 642.01-642.50, 643.01-643.50, 644.01-644.50, 645.01-645.50, 646.01-646.50, 647.01-647.50, 648.01-648.50, 649.01-649.50, 650.01-650.50, 651.01-651.50, 652.01-652.50, 653.01-653.50, 654.01-654.50, 655.01-655.50, 656.01-656.50, 657.01-657.50, 658.01-658.50, 659.01-659.50, 660.01-660.50, 661.01-661.50, 662.01-662.50, 663.01-663.50, 664.01-664.50, 665.01-665.50, 666.01-666.50, 667.01-667.50, 668.01-668.50, 669.01-669.50, 670.01-670.50, 671.01-671.50, 672.01-672.50, 673.01-673.50, 674.01-674.50, 675.01-675.50, 676.01-676.50, 677.01-677.50, 678.01-678.50, 679.01-679.50, 680.01-680.50, 681.01-681.50, 682.01-682.50, 683.01-683.50, 684.01-684.50, 685.01-685.50, 686.01-686.50, 687.01-687.50, 688.01-688.50, 689.01-689.50, 690.01-690.50, 691.01-691.50, 692.01-692.50, 693.01-693.50, 694.01-694.50, 695.01-695.50, 696.01-696.50, 697.01-697.50, 698.01-698.50, 699.01-699.50, 700.01-700.50, 701.01-701.50, 702.01-702.50, 703.01-703.50, 704.01-704.50, 705.01-705.50, 706.01-706.50, 707.01-707.50, 708.01-708.50, 709.01-709.50, 710.01-710.50, 711.01-711.50, 712.01-712.50, 713.01-713.50, 714.01-714.50, 715.01-715.50, 716.01-716.50, 717.01-717.50, 718.01-718.50, 719.01-719.50, 720.01-720.50, 721.01-721.50, 722.01-722.50, 723.01-723.50, 724.01-724.50, 725.01-725.50, 726.01-726.50, 727.01-727.50, 728.01-728.50, 729.01-729.50, 730.01-730.50, 731.01-731.50, 732.01-732.50, 733.01-733.50, 734.01-734.50, 735.01-735.50, 736.01-736.50, 737.01-737.50, 738.01-738.50, 739.01-739.50, 740.01-740.50, 741.01-741.50, 742.01-742.50, 743.01-743.50, 744.01-744.50, 745.01-745.50, 746.01-746.50, 747.01-747.50, 748.01-748.50, 749.01-749.50, 750.01-750.50, 751.01-751.50, 752.01-752.50, 753.01-753.50, 754.01-754.50, 755.01-755.50, 756.01-756.50, 757.01-757.50, 758.01-758.50, 759.01-759.50, 760.01-760.50, 761.01-761.50, 762.01-762.50, 763.01-763.50, 764.01-764.50, 765.01-765.50, 766.01-766.50, 767.01-767.50, 768.01-768.50, 769.01-769.50, 770.01-770.50, 771.01-771.50, 772.01-772.50, 773.01-773.50, 774.01-774.50, 775.01-775.50, 776.01-776.50, 777.01-777.50, 778.01-778.50, 779.01-779.50, 780.01-780.50, 781.01-781.50, 782.01-782.50, 783.01-783.50, 784.01-784.50, 785.01-785.50, 786.01-786.50, 787.01-787.50, 788.01-788.50, 789.01-789.50, 790.01-790.50, 791.01-791.50, 792.01-792.50, 793.01-793.50, 794.01-794.50, 795.01-795.50, 796.01-796.50, 797.01-797.50, 798.01-798.50, 799.01-799.50, 800.01-800.50, 801.01-801.50, 802.01-802.50, 803.01-803.50, 804.01-804.50, 805.01-805.50, 806.01-806.50, 807.01-807.50, 808.01-808.50, 809.01-809.50, 810.01-810.50, 811.01-811.50, 812.01-812.50, 813.01-813.50, 814.01-814.50, 815.01-815.50, 816.01-816.50, 817.01-817.50, 818.01-818.50, 819.01-819.50, 820.01-820.50, 821.01-821.50, 822.01-822.50, 823.01-823.50, 824.01-824.50, 825.01-825.50, 826.01-826.50, 827.01-827.50, 828.01-828.50, 829.01-829.50, 830.01-830.50, 831.01-831.50, 832.01-832.50, 833.01-833.50, 834.01-834.50, 835.01-835.50, 836.01-836.50, 837.01-837.50, 838.01-838.50, 839.01-839.50, 840.01-840.50, 841.01-841.50, 842.01-842.50, 843.01-843.50, 844.01-844.50, 845.01-845.50, 846.01-846.50, 847.01-847.50, 848.01-848.50, 849.01-849.50, 850.01-850.50, 851.01-851.50, 852.01-852.50, 853.01-853.50, 854.01-854.50, 855.01-855.50, 856.01-856.50, 857.01-857.50, 858.01-858.50, 859.01-859.50, 860.01-860.50, 861.01-861.50, 862.01-862.50, 863.01-863.50, 864.01-864.50, 865.01-865.50, 866.01-866.50, 867.01-867.50, 868.01-868.50, 869.01-869.50, 870.01-870.50, 871.01-871.50, 872.01-872.50, 873.01-873.50, 874.01-874.50, 875.01-875.50, 876.01-876.50, 877.01-877.50, 878.01-878.50, 879.01-879.50, 880.01-880.50, 881.01-881.50, 882.01-882.50, 883.01-883.50, 884.01-884.50, 885.01-885.50, 886.01-886.50, 887.01-887.50, 888.01-888.50, 889.01-889.50, 890.01-890.50, 891.01-891.50, 892.01-892.50, 893.