UNCLAS //N10480//
PASS TO OFFICE CODES:
TO COMNAVSURFLANT NORFOLK VA//N43/N41//
COMNAVSURFPAC SAN DIEGO CA//N43/N41//
INFO NAVSUP WEAPON SYSTEMS SUPPORT MECHANICSBURG PA//N26//
COMNAVSUPSYSCOM MECHANICSBURG PA//N41//
NAVSURFWARCENDIV PHILADELPHIA PA//335//
COMNAVSAFECEN NORFOLK VA//31//
COMNAVSSEASYSCOM WASHINGTON DC//04RS/06P/05S3/05P5
/PMS392/05U7/05V1/05D5/PMS443//
COMPAEFLT PEARL HARBOR HI//N43/N41/N46//
COMUSFLTFORCOM NORFOLK VA//N43/N41/N46//
SUPSHIP BATH ME//200//
SUPSHIP GULF COAST MS//200//
NAVSHPYD AND IMF PEARL HARBOR HI//200//
NAVSHPYD AND IMF PUGET SOUND WA//200//
NAVSHPYD NORFOLK VA//200//
COMNAVVRMC NORFOLK VA//100/200//
MARMC NORFOLK VA//200/300/900//
FDRMC NAPLES IT//100//
FDRMC DET BAHRAIN//100//
MSGID/GENADMIN, USMTF, 2008/COMNAVSEASYSCOM WASHINGTON DC/
SUBJ/NAVSEA FLEET ADVISORY 01-2020, GUIDANCE FOR SURFACE SHIPS
/CORONAVIRUS DISINFECTANT PRODUCTS AND PROCEDURES/
REF/A/DESC: DOC/BUMED/30MAR2020/
REF/B/DESC: DOC/BUMED/30MAR2020/
REF/C/DESC: DOC/NMCPHC/28MAR2020/
REF/D/DESC: DOC/NMCPHC/27MAR2020/
REF/E/DESC: DOC/NAVSEA/30APR2014/
NARR/REF A IS EMAIL FROM BUMED BRANCH HEAD OF SURFACE MEDICINE, CAPT M. LENART, TO NAVSEA 05P3/LT C. DRUHL, PROVIDING BUMED REVIEW AND ACKNOWLEDGEMENT. REF B IS EMAIL FROM BUMED DIRECTOR OF FLEET PROGRAMS M35/CAPT C. KURTZ TO NAVSEA 05P3/LT C. DRUHL PROVIDING BUMED REVIEW AND ACKNOWLEDGEMENT. REF C IS GUIDANCE FOR UNDERWAY EVALUATION AND MANAGEMENT OF SUSPECTED PERSONS UNDER INVESTIGATION (PUI) FOR 2019 NOVEL CORONAVIRUS (COVID-19). REF D IS RECOMMENDED CHEMICAL CONSTITUENTS WITH DISINFECTANT AND BIOCIDAL ACTIVITY FOR SARS-COV-2. REF E IS S9086-WK-STM-010, NSTM 670 VOLUME 1 - STOWAGE, HANDLING, AND DISPOSAL OF HAZARDOUS GENERAL USE CONSUMABLES VOLUME 1 - AFLOAT HAZARDOUS MATERIAL CONTROL AND MANAGEMENT GUIDELINES.

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GENTEXT/REMARKS/1. THIS MESSAGE (MSG) PROVIDES SURFACE SHIPS WITH GUIDANCE FOR SELECTING AND STORING PRODUCTS EFFECTIVE AGAINST SEVERE ACUTE RESPIRATORY SYNDROME CORONAVIRUS 2 (SARS-COV-2), THE PATHOGEN WHICH CAUSES NOVEL CORONAVIRUS DISEASE 2019 (COVID-19), FOR USE IN GENERAL SHIP-WIDE APPLICATIONS.

2. THIS MSG IS APPLICABLE TO ALL U.S. NAVY SURFACE SHIPS. AIRCRAFT CARRIERS AND SUBMARINES SHOULD FOLLOW GUIDANCE AS PROVIDED BY THEIR TYPE COMMANDERS (TYCOM). THIS GUIDANCE APPLIES TO PRODUCT SELECTION AND STORAGE. SURFACE SHIPS ARE TO FOLLOW TYCOM DIRECTIONS REGARDING PROPER SANITATION, DISINFECTION, AND HAND HYGIENE PROCEDURES. THIS GUIDANCE APPLIES TO PRODUCTS OBTAINED BY SURFACE SHIP SUPPLY DEPARTMENTS FOR USE IN SHIP-WIDE SANITATION AND DISINFECTION EFFORTS. CONSULT FLEET MEDICAL OFFICERS FOR GUIDANCE SPECIFIC TO MEDICAL AND DENTAL SPACES.

3. BACKGROUND:
A. TYCOM DIRECTION RECOMMENDED PRODUCTS EFFECTIVE IN REDUCING TRANSMISSION OF SARS-COV-2; HOWEVER, THERE IS A SIGNIFICANTLY HIGH DEMAND FOR THESE PRODUCTS, THUS CAUSING GAPS IN SUPPLY AVAILABILITIES OF EFFECTIVE DISINFECTANTS, BIOCIDES, AND CLEANING AGENTS. FURTHERMORE, SOME OTHERWISE EFFECTIVE CLEANING AGENTS ARE NOT RECOMMENDED FOR USE IN SPACES WITH SENSITIVE EQUIPMENT AS IT WOULD AFFECT THEIR SERVICE LIFE. THIS GUIDANCE WAS DEVELOPED TO ASSIST SHIPS IN DETERMINING WHICH PRODUCTS ARE EFFECTIVE AGAINST SARS-COV-2.

B. THIS GUIDANCE WAS DEVELOPED JOINTLY BY THE NAVY MARINE CORPS PUBLIC HEALTH CENTER (NMCPHC), THE NAVAL SUPPLY SYSTEMS COMMAND (NAVSUP), AND THE NAVAL SEA SYSTEMS COMMAND (NAVSEA). SPECIFICALLY, NMCPHC PROVIDED REQUIRED ACTIVE INGREDIENTS WITH THRESHOLDS AND PRODUCT USAGE GUIDANCE. NAVSUP PROVIDED PRODUCT PROCUREMENT GUIDANCE. NAVSEA PROVIDED PRODUCT REVIEW, STOWAGE, AND LABELING GUIDANCE. THIS GUIDANCE WAS REVIEWED BY THE NAVY BUREAU OF MEDICINE AND SURGERY (BUMED) IN REFERENCES (A) AND (B).

C. DILUTED SOLUTIONS OF BLEACH OR CALCIUM HYPOCHLORITE ARE EFFECTIVE AGAINST SARS-COV-2. HOWEVER, BLEACH SOLUTIONS ARE NOT RECOMMENDED ON OR AROUND ENGINEERING EQUIPMENT OR ELECTRONICS ENCLOSURES DUE TO THE PROPENSITY FOR CHLORIDE-INDUCED STRESS CRACKING IN STEEL. WHERE SAFE TO USE, ADHERE TO DILUTION PROCEDURES IN REFERENCE (C).

D. FOGGERS: SHIPBOARD USE OF COMMERCIAL FUMIGATION RIGS, ALSO KNOWN AS FOGGERS, IS UNDER NAVSEA STUDY AND WILL BE ADDRESSED SEPCOR IN LATER GUIDANCE. UNTIL THEIR RISK TO PERSONNEL AND EQUIPMENT CAN BE DETERMINED, FOGGERS ARE NOT AUTHORIZED FOR SURFACE SHIPS.

E. SHIP HVAC OPERATION:
NO CHANGES OR MODIFICATIONS TO THE SHIP’S VENTILATION SYSTEM OR VENTILATION SYSTEM OPERATING PROCEDURES ARE REQUIRED OR RECOMMENDED. PER THE CDC, SARS-COV-2 IS THOUGHT TO SPREAD MAINLY FROM PERSON-TO-PERSON DURING CLOSE EXPOSURE WITH A PERSON INFECTED WITH THE DISEASE. THE INFECTED PERSON PRODUCING RESPIRATORY DROPLETS BY COUGHING OR SNEEZING. THE DROPLETS CAN LAND IN THE MOUTHS, NOSES, OR EYES OR POSSIBLY BE INHALED INTO THE LUNGS OF PEOPLE WHO ARE WITHIN CLOSE PROXIMITY. THE CONTRIBUTION OF SMALL RESPIRABLE PARTICLES, SOMETIMES CALLED AEROSOLS OR DROPLET NUCLEI, TO CLOSE PROXIMITY TRANSMISSION IS CURRENTLY UNCERTAIN. HOWEVER, AIRBORNE TRANSMISSION FROM PERSON-TO-PERSON OVER LONG DISTANCES IS HIGHLY UNLIKELY. THEREFORE, CHANGING VENTILATION OPERATION OR MAINTENANCE, SUCH AS INCREASING FILTERING REPLACEMENT OR ADDING ANY ADDITIONAL FILTERING, IS NOT EXPECTED TO PROVIDE PROTECTION FROM COVID-19 TRANSMISSION. NAVSEA WILL CONTINUE MONITORING CDC GUIDANCE AND WILL UPDATE THIS ADVISORY ACCORDINGLY.

4. PRODUCT SELECTION:
A. THE "REMARKS" COLUMN OF THE SHIP'S HAZARDOUS MATERIAL LIST (SHML) WAS UPDATED TO REFLECT PRODUCTS THAT ARE EFFECTIVE AGAINST
SARS-COV-2. THE PRODUCTS TO DATE ARE LISTED BELOW. NAVSUP WILL UPDATE TYPE SHML (T-SHML) FILES AND PROVIDE SHIPS WITH THE LATEST UPDATES AS REQUIRED. AN UP-TO-DATE LIST CAN BE FOUND AT HTTPS://WWW.NAVSUP.NAVY.MIL/PUBLIC/NAVSUP/PRODUCTS_SERVICES/HMM/PS_HMM/ UNDER COVID-19 PRODUCT SUPPORT.

I. 6840-01-491-4889, DISINFECTANT DETERGENT
II. 6840-01-570-0373, DISINFECTANT, UTILITY
III. 6840-01-570-0433, DISINFECTANT, UTILITY
IV. 6840-01-611-9151, DISINFECTANT, GENERAL PURPOSE
V. 6840-01-621-2002, DISINFECTANT, UTILITY
VI. 7930-01-589-0598, MULTI-SURFACE SANIT
VII. 7930-01-311-0667, CLEANING COMPOUND, TOILET BOWL
VIII. 6840-01-542-2011, TOWELETTE, DISINFECTANT
IX. 6840-00-238-8115, DISINFECTANT, CALCIUM HYPOCHLORITE
X. 8520-01-490-7365, SANITIZER, HAND
XI. 8520-01-579-3825, SANITIZER, HAND
XII. 6840-01-617-8582, SANITIZER, GENERAL PURPOSE
XIII. 6840-01-476-3957, DISINFECTANT, GENERAL PURPOSE
XIV. 6805-01-353-5671, SANITIZER, HAND
XV. 8520-01-490-7358, SANITIZER, HAND
XVI. 8520-01-522-0830, SANITIZER, HAND
XVII. 8520-01-522-3885, SANITIZER, HAND
XVIII. 8520-01-522-0835, SANITIZER, HAND
XIX. 6840-01-561-7768, TOWELETTE, DISINFECTANT

B. IF PRODUCTS AUTHORIZED ON THE SHML ARE NOT AVAILABLE, PRODUCTS MAY BE OPEN PURCHASED PROVIDED THEY CONTAIN THE ACTIVE INGREDIENTS FOR THE APPROPRIATE CATEGORY LIST BELOW. THE ACTIVE INGREDIENTS AND THRESHOLDS WERE PUBLISHED IN REFERENCE (D). CONSULT PRODUCT LITERATURE, PRODUCT LABEL, AND SAFETY DATA SHEET (SDS) TO DETERMINE THE ACTIVE INGREDIENTS. A SHML FEEDBACK REQUEST (SFR) IS NOT REQUIRED FOR ITEMS THAT ARE OPEN PURCHASED TO FIGHT SARS-COV-2.

I. HAND SANITIZERS MUST CONTAIN A MINIMUM OF 60% ALCOHOL (ETHANOL, ETHYL ALCOHOL, ISOPROPYL ALCOHOL, ISOPROPANOL, 2-PROPANOL).
II. DISINFECTING WIPES/TOWELETTES MUST CONTAIN A MINIMUM OF BOTH OF THE FOLLOWING: 17.2% ISOPROPYL ALCOHOL, ISOPROPANOL, OR 2-PROPONAL, AND 0.28% OF A QUATERNARY AMMONIUM COMPOUND (SEE PARA 5.C).
III. ALTERNATIVELY, DISINFECTING WIPES/TOWELETTES MUST CONTAIN A MINIMUM OF 0.95% SODIUM HYPOCHLORITE.
IV. SPRAY-ON DISINFECTANT/SANITIZERS MUST CONTAIN A MINIMUM OF ONE OF THE FOLLOWING: 0.5% SODIUM HYPOCHLORITE, OR 70% ETHANOL OR ETHYL ALCOHOL, OR 0.5% HYDROGEN PEROXIDE.

5. CAUTIONS FOR PRODUCT USE:
   A. FOLLOW THE MANUFACTURER'S INSTRUCTIONS REGARDING APPROPRIATE PRODUCT PREPARATION. DO NOT PREPARE PRODUCTS STRONGER THAN THE MANUFACTURER'S RECOMMENDATION. CORROSION AND ADVERSE HEALTH EFFECTS ARE LIKELY TO OCCUR IF MANUFACTURERS GUIDELINES ARE NOT FOLLOWED.
   B. TO ENSURE MAXIMUM POTENCY, USE PRODUCTS WITHIN THEIR SHELF LIFE. ENSURE PRODUCTS ARE SEALED WHEN NOT IN USE TO PREVENT
EVAPORATION OF ACTIVE INGREDIENTS.

C. FOLLOW THE MANUFACTURER’S GUIDELINES FOR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) USAGE.

D. NEVER MIX PRODUCTS (I.E., BLEACH AND AMMONIA). HAZARDOUS VAPORS OR OXIDIZING REACTIONS CAN BE PRODUCED AS A RESULT OF IMPROPER MIXING OF CHEMICALS.

E. AMMONIA FOGS AND LIQUIDS SHOULD BE KEPT OFF COPPER BEARING ALLOYS (PIPING, COMPONENTS, FASTENERS) TO AVOID CRACKING.

F. AVOID USE OF BLEACH SOLUTIONS ON STAINLESS STEEL TO AVOID CRACKING.

G. ALCOHOL IS EFFECTIVE ON BARE METAL SURFACES BUT MAY SOFTEN COATINGS.

H. DISINFECTANT WIPES ARE NOT TO BE FLUSHED DOWN THE SEWAGE SYSTEM AND ARE TO BE TREATED AS HAZMAT/HAZWASTE AND DISPOSED OF ACCORDINGLY.

6. FOR THE BELOW INSTANCES, SHIPS ARE TO SUBMIT A SFR WITH PRODUCT LITERATURE, SDS, AND PRODUCT LABEL (IF AVAILABLE). CLEARLY STATE IN THE SFR THAT THE PRODUCT IS FOR SARS-COV-2 DISINFECTION.

A. UNCERTAIN OF A PRODUCT’S EFFECTIVENESS.

B. IDENTIFIED A PRODUCT MEETING THE ABOVE REQUIREMENTS WITH A NSN AND IN STOCK, BUT NOT ON THE SHML.

C. IDENTIFIED A PRODUCT USING QUATERNARY AMMONIUM COMPOUNDS AS THEIR ACTIVE INGREDIENT. THESE COMPOUNDS ARE OFTEN FOUND IN DISINFECTANTS, BUT ARE DIFFICULT TO IDENTIFY. THEIR EFFECTIVENESS IS DEPENDENT ON OTHER CONSTITUENTS IN THE PRODUCT. COMMON QUATERNARY AMMONIUM COMPOUNDS ARE:

I. ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDES (C12-16)

II. ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C14 60%, C16 30%, C12 5%, C18 5%)

III. ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE (C12-14)

IV. ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDES (C12-18)

V. BENZALKONIUM CHLORIDE

VI. BENZETHONIUM CHLORIDE

VII. CETALKONIUM CHLORIDE

VIII. CETRIMIDE

IX. CETRIMONIUM

X. CETYLPYRIDINIUM CHLORIDE

XI. DIDEOSYDIMETHYLAMMONIUM CHLORIDE

XII. DIOCTYLDIMETHYLAMMONIUM CHLORIDE

XIII. DOFANIUM CHLORIDE

XIV. DOMIPHEN BROMIDE

XV. METHYLBENZETHONIUM CHLORIDE

XVI. TETRAETHYLAMMONIUM BROMIDE

D. SHIPS ARE TO DOWNLOAD THE SFR SPREADSHEET TEMPLATE AND UTILIZE, AS REQUIRED, TO POST SFR SMIL FEEDBACK DETAILS IN THE ELECTRONIC ADVISORY RECORD REPOSITORY AND TRACKING SYSTEM (EARRTS) ADVISORY TRACKING RECORD (ATR), AS APPLICABLE.

E. NAVSUP AND NAVSEA WILL CONSULT NMCPHC AND BUMED AND PROVIDE A RESPONSE TO PARA 6 ABOVE.
6. PRODUCT STORAGE:
   A. ALL PRODUCTS BROUGHT ONBOARD FOR DISINFECTION OF SARS-COV-2, INCLUDING PRODUCTS THAT ARE OPEN PURCHASED, MUST BE STORED IN ACCORDANCE WITH THE HAZMAT SIMPLIFIED COMPATIBILITY CHART OF REF D. IN PARTICULAR, OXIDIZERS (BLEACH, CALCIUM HYPOCHLORITE, SODIUM HYPOCHLORITE, AND HYDROGEN PEROXIDE) AND FLAMMABLES (PRODUCTS CONTAINING ALCOHOL) SHALL NEVER BE STORED IN THE SAME COMPARTMENT. REFER TO THE PRODUCT'S HAZARD CHARACTERISTIC CODE (HCC) AND THE HM SIMPLIFIED COMPATIBILITY CHART TO DETERMINE THE PROPER STORAGE LOCATION. IF A HCC IS NOT AVAILABLE, CONTACT NAVSUP WSS HEDMO AT AFLOATHAZMAT.WSS.FCT@NAVY.MIL FOR ASSISTANCE.

7. INTEGRATED LOGISTICS SUPPORT (ILS) IMPACT: NONE

8. CLOSURE CRITERIA: THIS ADVISORY WILL BE UPDATED WITHIN 6 MONTHS OF ITS RELEASE.

9. ELECTRONIC ADVISORY RECORD REPOSITORY AND TRACKING SYSTEM (EARRTS):
   A. ACCOMPLISHMENTS AND DISCREPANCIES FOUND SHALL BE REPORTED IN EARRTS (HTTPS://EFORMS.NSLC.NAVY.MIL/ARRTS). AN ADVISORY TRACKING RECORD (ATR) WILL BE INITIATED BY NAVSEA WITHIN EARRTS FOR TYCOM'S READRESSAL AND ASSIGNMENT OF ADVISORY ACTIONS TO AFFECTED ACTIVITIES FOR POSTING ADVISORY TRACKING RECORD (ATR) RESPONSES.
   B. ACTIVITIES REQUIRING ACCESS TO EARRTS CAN REQUEST ACCESS THROUGH THE "NEW USER" REGISTRATION LINK AT HTTPS://EFORMS.NSLC.NAVY.MIL. A DOD CLIENT PKI CERTIFICATE IS REQUIRED FOR ACCESS. EARRTS HAS NO PROVISION FOR CLASSIFIED CONTENT. FOR EARRTS TECHNICAL SUPPORT, CONTACT VIA EMAIL AT EFORMSSUPPORT.FCT@NAVY.MIL.
   C. SHIPS WITH OPEN ATR ACTIONS SHALL BE IN EARRTS ALERT STATE WITH REGARDS TO THE RESPECTIVE ADVISORY UNTIL A RESPONSE HAS BEEN SUBMITTED FOR EACH ASSIGNED TASK.
   D. COGNIZANT TYCOM STAFF WILL BE THE PRIMARY POC FOR ALL SHIP FORCE ADVISORY RESPONSES. THE TYCOM WILL CLOSE INDIVIDUAL ATR IN EARRTS FOR EACH SHIP HAVING REPORTED COMPLETION. NAVSEA WILL ARCHIVE CLOSED ADVISORIES IN EARRTS. ARCHIVED ADVISORIES WILL REMAIN VIEWABLE IN EARRTS BUT WILL NOT BE LISTED ON THE RESPECTIVE SHIP'S ACTIVE ADVISORY REPORT.

10. TECHNICAL CONCURRENCE: THE TECHNICAL WARRANT HOLDERS FOR HAZMAT (SEA 05P5) AND CLIMATE CONTROL SYSTEMS (SEA 05Z42) AND THE CHIEF SYSTEMS ENGINEER FOR SURFACE SHIPS (SEA 05D), CONCUR WITH THIS ADVISORY.

11. PROGRAM CONCURRENCE: COMNAVSURFPAC (N43), COMNAVSURFLANT (N43), AND NAVSEA (PMS 443TD) CONCUR WITH THIS ADVISORY.

12. REQUEST TYCOMS DISSEMINATE THIS ADVISORY TO ALL APPLICABLE
UNITs FOR ACTION.//
BT
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