

# ANNEX TO CARGO RESISTANCE LIST

## IMO Approved Cleaning Chemicals Suitable for use with Advanced Polymer Coatings MarineLine® 784 Coating

*NOTE: These tank cleaning additives have been evaluated and found to be in accordance with the requirements of Regulation 13.5.2 of Annex II of Marpol 73/78. Evaluated in accordance with MEPC.1.Circ.590.*

### Rating of Tank Cleaning Chemicals

Maximum Temperature	As Specified by Manufacturer	A
Concentration	As Specified by Manufacturer	A
Duration	Maximum of 24 hours	

While the tank cleaning chemicals contained in this list have been approved, Advanced Polymer Coatings does not advise on specific tank cleaning procedures. For detailed advice on this subject, APC recommends contacting one of the following specialist companies.

### Far East

Capt. Ramu Naidu	TNK Chemship
Mobile Phone:	+ 60 - 12-219-3700
Phone:	+ 60 - 3-429-34217
Fax:	+ 60 - 3-429-34218
Email:	<a href="mailto:Chemship@tm.net.my">Chemship@tm.net.my</a>

### Europe

Guy Johnson	L&I Maritime (UK) Ltd.
Mobile Phone:	+ 44 (0)7 99-0503503
Phone:	+ 44 (0) 1909-532003
Fax:	+ 44 (0) 1909-500945
Email:	<a href="mailto:LIMaritime@aol.com">LIMaritime@aol.com</a>

**A/S EIVIND BROSSTAD****Norway**

	<b>Max Concentration</b>	<b>Temperature °C</b>
MARCLEAN CO - 1	A	A
MARCLEAN H60	A	A
MARCLEAN SC	A	A

**Advanced BioCatalytics Corp.****USA**

	<b>Max Concentration</b>	<b>Temperature °C</b>
Accell Clean	A	A
Accell Clean Plus	A	A

**Blutec srl****Italy**

	<b>Max Concentration</b>	<b>Temperature °C</b>
Alkaclean S.	A	A
B.T.S. HCF Water Based	A	A
Cleanbreak	A	A
Cold Wash C.	A	A
Genepol	A	A

**CHEMO****Greece**

	<b>Max Concentration</b>	<b>Temperature °C</b>
Alkasafe Cleaner	A	A
Alkasolvent Liquid	A	A
Enviropower HD	A	A
Fresh Force Kleen	A	A
Super Red	A	A
Super Red Plus	A	A
Tank & Bilge Cleaner	A	A
Tank Super Cleaner	A	A
Oil & Sludge Remover	A	A

**CHEMTEC Chemicals GmbH****Germany**

	Max Concentration	Temperature °C
KT - Neutral BG	A	A
KT - Plus BG	A	A
CTC - Cleaner - VLC	A	A
KT - PLUS	A	A
KT-Solve	A	A

**CP METAL CHEMICALS****Netherlands**

	Max Concentration	Temperature °C
CP LEAD CLEAN	A	A
P3-GRATOSOL	A	A
SUPER DEGREASER	A	A

**CRAMOIL SINGAPORE PTE LTD****Singapore**

	Max Concentration	Temperature °C
CR AQUA CLEANER M	A	A
CR DEGREASER B	A	A
CR DEGREASER B PLUS	A	A
CR DEGREASER C	A	A
CR DEGREASER D	A	A
CR DEGREASER E	A	A
CR DEGREASER HCF	A	A
CR DEGREASER LAC	A	A
CR DEGREASER X	A	A
CR ENVIROCLEAN	A	A
CR LEADCLEAN	A	A
CR SPARKLECLEAN 8.4	A	A
CR ZINC SAFE NEUTRAL HCF	A	A

**Drew Marine****USA**

	Max Concentration	Temperature °C
Enviro Care 370	A	A
Product Formula 3	A	A
Product Formula 4	A	A
Product Formula 5	A	A

**Henkel Belgium N.V.****Belgium**

	Max Concentration	Temperature °C
Grato 14 Marine (US)	A	A

**Infinity Enterprises, Inc.****Japan**

	Max Concentration	Temperature °C
SC-100	A	A

**Jpec Co., Ltd.****Japan**

	Max Concentration	Temperature °C
ion and Alkali Cleaning Agent of Jpal	A	A

**KAO Corp.****Japan**

	Max Concentration	Temperature °C
Haizen S-100	A	A

**Lion Corp.****Japan**

	Max Concentration	Temperature °C
LIPOMIX M	A	A

**Marichem Marigases Worldwide Services****Greece**

	Max Concentration	Temperature °C
ALCACLEAN HD	A	A
ALCACTIVE LIQUID	A	A
MARICLEAN - POL	A	A
Tank Cleaner A	A	A

**Marine Care BV****Netherlands**

	<b>Max Concentration</b>	<b>Temperature °C</b>
Careclean Passivating Liquid	A	A
KdB Teepol	A	A
KdB Totaal Ontvetter	A	A
Careclean AF	A	A
Careclean Alkaline	A	A
Careclean Alkaline Extra	A	A
Careclean Alkaline Safety	A	A
Careclean Aquawash (Teepol)	A	A
Careclean Buffer	A	A
Careclean Coaltar	A	A
Careclean D80	A	A
Careclean Degreaser GP	A	A
Careclean Degreaser HD	A	A
Careclean Degreaser HD Split	A	A
Careclean Energy Wash	A	A
Careclean Foro HD	A	A
Careclean GP Enviro	A	A
Careclean Inhibitor Killer/Lead Cleaner	A	A
Careclean LOW COD	A	A
Careclean Multiclean	A	A
Careclean Neutral HCF	A	A
Careclean Rust	A	A
Careclean Super Degreaser	A	A
Careclean Synclean HD	A	A
Careclean Synclean LF	A	A
Careclean Voyage (Seaclean)	A	A
Caretank ECO	A	A
Caretank ECO Extra	A	A

**NAVADAN APS****Denmark**

	<b>Max Concentration</b>	<b>Temperature °C</b>
NAVACLEAN 801 - ALKATUFF	A	A
NAVACLEAN 803 - ALKATUFF PHS	A	A
NAVACLEAN 809 - TEEPOL PLUS	A	A
NAVACLEAN 814 - DYESTUFF REMOVER	A	A
NAVACLEAN 818 - COLDWASH	A	A
NAVACLEAN 823 - BUFFERCLEANER 55	A	A
NAVACLEAN 823 (CON) BUFFER CLEANER 55	A	A
NAVACLEAN 842 - ALKASAFE	A	A
NAVACLEAN 848 - NEUTRAL CLEANING CONCENTRATE	A	A
NAVACLEAN 850 - WATERBASED NEUTRAL HCF	A	A
NAVACLEAN 855 - HYDROCARBON REMOVER	A	A
NAVACLEAN 856 - ECOCLEAN	A	A
NAVACLEAN 860 - SEACLEAN GP	A	A
NAVACLEAN 873 - RUST & STAIN REMOVER	A	A
NAVACLEAN 888 - SEACLEAN	A	A
NAVACLEAN 897 - IGS CLEANER	A	A
NAVACLEAN 897 (CON) - IGS CLEANER	A	A
NAVAFLOR 812	A	A

**New Shin Young Co., Ltd.****Korea**

	<b>Max Concentration</b>	<b>Temperature °C</b>
ALOHA SWING	A	A
ALOHA SWING PLUS	A	A
TCS-3	A	A
TCS-3 PLUS	A	A
TCS-3T	A	A
TCS-5	A	A
TCS-PARA	A	A
TCS-RSR	A	A
TCS-SCMR	A	A

**Oceanquimica****Chile**

	<b>Max Concentration</b>	<b>Temperature °C</b>
OCN - 01 Alkaline Cleaner	A	A
OCN - 02 Alkaline Safety	A	A
OCN - 03 Eco-Cleaner	A	A
OCN - 04 Maxpol	A	A
OCN - 05 Sea Clean (Tank Cleaner)	A	A

**REDOX CHEMICAL PTE LTD****Singapore**

	<b>Max Concentration</b>	<b>Temperature °C</b>
Redox Heavy Duty Cleaner	A	A
Redox Heavy Duty Tank Cleaner	A	A
Redox Metal Brightener	A	A
Redox Multi-Purpose Cleaner	A	A
Redox Oil Spill Dispersant & Tank Cleaning Additive	A	A
Redox Twiinstarr	A	A
Redox Water-Based Hydro-Carbon Free (HCF) Cleaner	A	A

**Star Marine Chemicals BV****Netherlands**

	<b>Max Concentration</b>	<b>Temperature °C</b>
Solvent Cleaner	A	A
StarMarine Concentrate	A	A
StarMarine Special	A	A
TankCleaner	A	A
Enviro Cleaner	A	A
Alkaline (CAUS)	A	A
Alkaline (POT)	A	A
Buffer	A	A
Metal Deruster	A	A
Multicleaner	A	A

**TriStar Industries BV****Netherlands**

	<b>Max Concentration</b>	<b>Temperature °C</b>
AC Clean 1 JT	A	A
AC Clean 24	A	A
Air-O-Gone-1	A	A
Steamer 130 HD	A	A
Steamer 140 HD	A	A
Super Cleaner Y-SP 2	A	A

**UNISERVICE S.A.****Italy**

	<b>Max Concentration</b>	<b>Temperature °C</b>
ALKACLEAN	A	A
ALKACLEAN SAFETY	A	A
CHLOR 12%	A	A
COLD WASH	A	A
CTU	A	A
ECOCLEAN	A	A
GENEPOL	A	A
MARISOL	A	A
SEACLEAN	A	A
UNICLEAN DRASTIC	A	A
UNICLEAN GP	A	A
WATERBASED NEUTRAL HCF	A	A

**UNITOR Chemicals AS****Norway**

	<b>Max Concentration</b>	<b>Temperature °C</b>
Alkleen Buffer	A	A
Alkleen Liquid	A	A
Alkleen Safety Liquid	A	A
Aquabreak PX	A	A
Metal Brite HD	A	A
Sea Clean Plus	A	A
Tankleen Advance	A	A
Tankleen Bright	A	A
Unipol	A	A
Zinc Coat Conditioner	A	A