



**FREEZE/THAW DATA**

The attached information is an updated list indicating freezing points and freeze/thaw information for U.S. and Canadian Food & Beverage products.

<b>RPT - Freezing Point - US</b>			
<b>Product</b>	<b>Freezing Point</b>	<b>Freeze/Thaw Stable</b>	<b>Shipping Restrictions?</b>
AC-101	50°F/10°C	Cloudy w/crystals - Not usable	Yes
AC-103	50°F/10°C	Cloudy w/crystals - Not usable	Yes
AC-3	8°F/-13°C	OK	No
AC-55-5	-38°F/-38°C	OK	No
AC-55-5-Red	-38°F/-38°C	OK	No
Accomplish	-20°F/-28°C	Yes	No
Advantis 330	15°F	Yes	Yes
Antifoam #10	32°F/0°C	Viscosity may increase - Warm to room temperature - Mix - Usable	Yes
Artec	-20°F/-29°C	Yes	No
Asepto 350L	0°F/-17°C	Precipitate formed - Not usable	Yes
Asepto HW	-13°F/-35°C	OK	No
Astri-B (NA)	25°F/-4°C	Slight separation - Warm to room temperature - Mix - Usable	No
Astri-CID (NA)	8°F/-13°C	OK	No
Astri-L (NA)	-22°F/-30°C	OK	No
Astri-LIN (NA)	25°F/-4°C	Crystals may not totally dissolve	Yes
Avoid II	-10°F/-23°C	OK	No
Bac Drop	-10°F/-23°C	OK	Yes
Bac-Flush	2°F/-16°C	OK	No
Bevro-Sheen	50°F/10°C	Crystals may not totally redissolve	Yes
Brite-Case	7°F/-13°C	Slightly liquid separation at surface - Warm to room temperature - Mix - Usable	Yes
CD-249	17°F/-8°C	Precipitate - Not usable	Yes
CD-470	5°F/-15°C	Striations - Warm to room temperature - Mix - Usable	Yes
CD-572	13°F/-10°C	Precipitate - Not usable	Yes
CD-576	10°F/-12°C	Striations - Warm to room temperature - Mix - Usable	Yes
CD-631	2°F/-16°C	OK	No
CD-710		OK	No
Chain Clean	23°F/-5°C	Separates	Yes
Chelate Additive	10°F/-12°C	OK	No
Chem-Star Acid Gold HD	17.6°C	OK	No
Chem-Star Acid Gold HD	-20°F/-29°C	OK	No
Chem-Star Acid Plus, C-S Acid 100 and Perform	5°F/-15°C	Striations - Warm to room temperature - Mix - Usable	No
Chem-Star Barrier 112	32°F/0°C	Yes	No
Chem-Star Sensodine NF	30°F/0°C	OK	No
ChilCare 100		OK	No
Chore Mate Liquid Laundry Detergent	32°F/0°C	OK	No
Chore Mate Shine-Pro	-4°F/-20°C		No
Choremate Handmate	20°F/-6°C	OK	No

<b>RPT - Freezing Point - US</b>			
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Choremate X-Tra	32°F/0°C	No	Yes
CIR-Klenz II	-28F/-33C	OK	No
Conquest	5°F/-15°C	No	Yes
Conquest K	< -12°F	Chris Sykes 02-13-08	
Cosmic L	-4°F/-20°C	OK	Yes
Dairy-Glide NF	17°F/-8.3°C	Yes	No
Defoamer 7018	32°F/0°C	No	Yes
Defoamer FG	32°F/0°C	No	Yes
Defoamer S	-22°F/-29°C	OK	No
DrySan Duo	24°F/-4°C	Yes	No
DryExx		Not usable	Yes
DryExx Pro			Yes
Ecocare 250	32°F/0°C	OK	No
Ecocare 350	-40°F/-40°C	OK	No
Ecocare 360	25.5°F/-3.6°C	Not usable	Yes
Eco-Wipe FCS	0°C		No
Enforce	8°F/-13°C	Thickens - Warm to room temperature - Usable	No
Enforce Foam Chlor	8°F/-13°C	Thickens - Warm to room temperature - Usable	No
Enforce LP	-8°F/-22.2°C		Yes
Enforce LP-DS	-8°F/-22.2°C		Yes
Envirocid	-27°F/-33°C	OK	No
Envirocid Plus	-7°F/-22°C	White precipitate - Warm to room temperature - Mix - Usable	No
Equipment Sanitizer	0°F/-18°C	OK	No
Exelerate 101		White precipitate - Warm to room temperature - Mix - Usable	No
Exelerate 310	0°F/-18°C	Slight separation - Warm to room temperature - Mix - Usable	Yes
Exelerate 320	5°F/-15°C	OK	No
Exelerate CIP	-28F/-33C	OK	No
Exelerate Tufsoil	41° F/5°C		Yes
Foam Force LP	-8°F/-22.2°C		Yes
Foam-Nox	24°F/-4°C	Two layers - Warm to room temperature - Mix - Usable	Yes
Foam Shine	-4°F/ -20 C		No
Foam-Shine II	-4°F/ -20 C		No
HD Acid PL-10	-17.6°C	OK	No
HD PL-10 Plus	-20°F/-29°C	OK	No
I-Deal	32°F/0°C	Yes	No

Insist	12°F/-11°C	OK	Yes
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<b>RPT - Freezing Point - US</b>			
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Inspexx 200	6°F/-14°C	OK	No
Io Shield	40°F/4°C	Not usable	Yes
Iodophor II	22°F/-5°C	OK	No
Kleen-Up	20°F/-7°C	Separation - Warm to room temperature - Mix - Usable	Yes
Klenz Glide 20	31°F/-1°C	No	Yes
Klenz-Glide 5	25°F/-4°C	Separates	Yes
Klenzmax TFC Green II		Not usable	Yes
Klenz-Pak	-27°F/-33°C	OK	No
Klenz-Solv	15°F/-9°C	OK	No
Konduct	-37°F/-38°C	OK	No
Legend	32°F/0°C	OK - if sediment or separated - Not usable	No
LFC 390	19°F/-7°C	Striations - Warm to room temperature - Mix - Usable	Yes
Lift RT	19°F/-7°C	Precipitate - Warm to room temperature - Mix - Usable	Yes
Liquid Boil-Out 100	4°F	Per Chris Sykes 02-08	
Liquid HD-325	-8°F/-22°C		Yes
Liquid K	30°F/-1°C	Light precipitate - Usable	No
Liquid Spearhead	20°F/-6°C	OK	No
Liquid-90	11°F/-12°C	Light precipitate - Usable	No
Lubodrive FP Plus	28°F/-2°C	No	Yes
Lubodrive RX	23°F/-5°C	Not usable	No
Lubri-Klenz LF	-15°F/-9°C	OK	No
Lubri-Klenz S	11°F/-13°C	Yes	No
Mac Clean	50°F/10°C	Cloudy w/crystals - Not usable	Yes
Mandate	12°F/-11°C	Precipitate - Warm to room temperature - Mix - Usable	Yes
Mandate Plus	12 F/-11C	Yes	No
Mikroklene DF	24°F/-4°C	OK	No
Monacid NP	16.5°F	OK	No
Monodine	22°F/-5°C	OK	No
Monarch Perform	5°F/-15°C	Striations - Warm to room temperature - Mix - Usable	No
Octave	36°F	OK per memo from Victor Mann 2-07	Yes
Octa-Gone			Yes
Optima Concentrate	30°F/0°C	OK	No
Optima Plus	32°F/0°C	OK	No
OR-3 Acid Detergent	-3°F/-19°C	OK	No
Outshine Acid	-3°F/-19°C	OK	No
Oxonia Active	-22°F/-30°C	OK	No
Oxy-Gard M	32°F/0°C	Separates - Not usable	Yes

<b>RPT - Freezing Point - US</b>			
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Oxy-Pak	-27°F/-33°C	OK	No
Oxysept 333	-22°F/-30°	OK	No
Passivation Acid	-50°F/-45°C	Still liquid	No
Pennsan Quat 5	14.9°F		No
Phosphoric Acid FG	1°F/-17°C	OK	No
Pinnacle	30°F/-1°C	OK	Yes
Poly-Brite	31°F/-1°C	Precipitate & separation - Warm to room temperature - Mix - Usable	Yes
Principal	-28°F/-33°C	OK	No
Quadexx 100	50°F/10° C	Crystals - not usable	Yes
Quadexx 200	26°F/-3°C	Not usable	Yes
Quadexx 400	2°F/-17°C	<b>Need Info</b>	Yes
Quadexx 500	22°F/-6°C	<b>Need Info</b>	Yes
Quadexx 501	10°F/-12°C	Separates & precipitates – not usable	Yes
Quadexx 600	15°F/	Slight separation – warm to room temperature, mix - usable	Yes
Quadexx 700	0°F/-18°C	OK	No
Quadexx 800	<b>Need Info</b>	<b>Need Info</b>	Yes
Questar Acid-NF	8°F/-13°C	OK	No
Questar CAF	-8°F/-22.2°C		Yes
Questar LAC	-18°F/-28°C	OK	No
Questar LAC-NF	50°F/10°C	Cloudy w/crystal - Not usable	Yes
Questar QAC	32°F/0°C	OK	No
Questar SHC	40°F/4°C	OK	No
Quorum Brown	35°F/2°C	Hazy - Usable	Yes
Quorum Clear V	14.9°F		
Quorum Copper	-18°F/-28°C	OK	No
Quorum Green	10°F/-8°C	Separates - Warm to room temperature - Mix - Usable	Yes
Quorum Green II	0°F/-18°C	OK	No
Quorum Orange	7°F/-14°C	Precipitate - Not usable	Yes
Quorum Pink II HF	14°F/-10°C	Precipitate - Warm to room temperature - Mix - Usable	Yes
Quorum Pink II LF	7°F/-14°C	Slight precipitate - Warm to room temperature - Mix - Usable	Yes
Quorum Purple	-4°F/-20°C		No
Quorum Red	-6°F/-21°C		No
Quorum Red II	8°F/-13°C	OK	No
Quorum Yellow II	-28°F/-33°C	OK	No
Quorum Yellow LP	-8°F/-22.2°C		Yes
RTU Surface Sanitizer	-26°C/-15 F		No

<b>RPT - Freezing Point - US</b>			
<b>Product</b>	<b>Freezing Point</b>	<b>Freeze/Thaw Stable</b>	<b>Shipping Restrictions?</b>
Sani-Glide	15°F/-9°C	Separates	Yes
SC-205	7°F/-13°C	Slightly liquid separation at surface - Warm to room temperature - Mix - Usable	Yes
SHC Extreme	<-14.8°F/-26.0°C	Yes (10883-11)	No
SHC Extreme II	-4.8 F	Per Danny Cummings	No
Sodium Hydroxide,25%	0°F/-18°C		No
Sodium Hydroxide, 50%	50°F/10°C	Crystals - Not usable	Yes
Solodigm		OK - No restrictions	No
Special Liquid Alkali	50°F/10°C		Yes
Stabicip Oxi		Still liquid	No
Ster-Bac	32°F/0°C	OK	No
Stone Remover	-22°F/-30°C	OK	No
Teat Glo	25°F/-4°C	OK - if sediment or separated - Not usable	No
Teat Glo Spray	27°F/-3°C	OK - if sediment or separated - Not usable	Yes
Teat Guard (ID-13)	30°F/-1°C	OK - if sediment or separated - Not usable	No
Teat-Glo Spray	27°F/-3°C	OK - if sediment or separated - Not usable	Yes
Tsunami 100	-17°F/-28°C	Still liquid	No
Tsunami 200	25°F/-4°C	OK	No
Udder Prep	23°F/-5°C	Warm to room temperature - Mix - Usable	Yes
Uddergold 5-Star Activator		Store between -10°C or 14°F 40 C or 104°F	No
Ultra Plus	0°F/-17°C	Precipitate formed - Not usable	Yes
Ultrasil 01	14°F/-10°C	OK	No
Ultrasil 110	25°F/-4°C	Slight separation - Warm to room temperature - Mix - Usable	No
Ultrasil 116	25°F/-4°C	Slight separation - Warm to room temperature - Mix - Usable	No
Ultrasil 22	24°F/-4°C	Precipitate - Warm to room temperature - Mix - Usable	Yes
Ultrasil 25	-27°F/-33°C	OK	No
Ultrasil 63	28°F/-2°C	Separates - Warm to room temperature - Mix - Usable	No
Ultrasil 75	-31°F/-35°C	Still liquid	No
Ultrasil 76	-31°F/-35°C	Still liquid	No
Ultrasil 78	-20°F/-29°C	OK	No
Ultrasil 91	0°F/-18°C	Still liquid	No
Ultrasil CMF	0°F	Did not freeze at zero degrees according to tests performed by Jocelyn Chopskie	No
Ultrasil Extend	28°F/-2°C	Separates - Warm to room temperature - Mix - Usable	No
Ultrasil MP	24°F/-5°C	Still liquid	No
Vega-Kleen	28°F/-2°C	Slight separation - Warm to room temperature - Mix - Usable	Yes
Vektor 100		OK	No
Vital 4	25°F/-4°C	OK	No

Vortexx	25°F/-4°C	OK	Yes
Whisper V	14.9°F		No
<b>RPT - Freezing Point - US</b>			
Winter Lube	-30°F/-34°C	OK	No
XY-12	0°F/-18°C	OK	No
Zango	40°F/4°C	OK	No



Freezing Point - Canadian Products			
Product	Freezing Point	Freeze/Thaw Stable?	Shipping Restrictions?
AC Special	<10°F/< -12°C		No
AC-101	50°F/10°C	Cloudy w/crystals - Not usable	Yes
Accomplish	-20°F/-28°C	Yes	No
Advantis 330	15°F	Yes	Yes
Alkamate	39°F/ 3°C	No	Yes
Astri-B (NA)	25°F/-4°C	Slight separation - Warm to room temperature - Mix - Usable	No
Astri-CID (NA)	8°F/-13°C	OK	No
Astri-L (NA)	-22°F/-30°C	OK	No
Astri-LIN (NA)	25°F/-4°C	Crystals may not totally dissolve	Yes
Bac-Flush	2°F/-16°C	OK	No
Bevro Klene	30°F/°C	OK	No
Blend 4	<10°F/<-12°C	OK	No
Bottlegard ACP	50°F	No - Not usable	Yes
CD-572	13° F/-10°C	Precipitate - Not usable	Yes
Chelate Additive	10°F/-12°C	OK	No
ChilCare 100		OK	No
Conquest	5°F/-15°C	No	Yes
Cosmic L	-4°F/-20°C	OK	Yes
Defoamer FG	32°F/0°C	OK	No
Duo	34°F/1°C	OK - if sediment or separated - Not usable	No
Dygest I (Canada)	18°F/-8°C	Warm to room temperature - Mix - Usable	Yes
Ecocare 250	32°F/ 0°C	OK	No
Ecocare 350	-40°F/- 40°C	OK	No
Ecocare 360	25.5°F/-3.6°C	Not usable	Yes
Eco-Wipe FCS	0°C		No
Exelerate CIP	-28°F/-33°C	OK	No
Ferisol (Canada)	5°F/-15°C	OK	No
Foam Breaker (Canada)	9°F/-13°C	OK	No
Foam Flex	32°F/0°C	OK	No
Foam Force	9°F/-13°C		No
Foam Force LP	-8°F/-22.2°C		Yes
Foam Shine II	-4°F/-20 C		No
Foam-Breaker	9°F/-13°C	OK	No
HD Acid PL-10	17.6°C	OK	No
High Foaming Liquid Cleaner II	<10°F/<-12°C	White precipitate - Not usable	No

Freezing Point - Canadian Products			
Product	Freezing Point	Freeze/Thaw Stable?	Shipping Restrictions?
I-DEAL	32°F/0°C	Yes	No
Insist	12°F/-11°C	OK	Yes
Inspexx 200	6°F/-14°C	OK	No
Klenzmax TFC Green II		Not usable	Yes
Klenz-Pak	-27°F/-33°C	OK	No
K-San (Canada)	18°F/-8°C	Two layers - Warm to room temperature - Mix - Usable	Yes
KX-6049	25°F/-4°C	OK	Yes
LD Special	<10°F/<-12 C	No	Yes
Lift RT	19°F/-7°C	Precipitate - Warm to room temperature - Mix - Usable	Yes
Liqua Terg	23°F/-5°C	OK	No
Liquid Brykleen	<-10 F/<-12 C	No	Yes
Liquid Duo Kleen	<10°F/<-12°C	No	Yes
Liquid Spearhead	20°F/-6°C	OK	No
Liquid Super Klenz	<10°F/<-12°C	OK	No
Lubodrive FP Plus	28°F/-2°C	No	Yes
Lubodrive RX	23°F/-5°C	Not usable	No
LubriKlenz LF	-15°F/-9°C	OK	No
Lubri-Klenz S	11°F/-13°C	Yes	No
Mandate 6003		OK	No
MIP - ACP	50°F	No - Not usable	Yes
MIP LIQUID 123-1	-13.7°C	No	Yes
MIP WT	40°F/5°C	Crystals formed - Not usable	Yes
Octave	36°F	OK per memo from Victor Mann 2-07	Yes
OR-3 Acid Detergent	-3°F/-19°C	OK	No
Outshine Acid	-3°F/-19°C	OK	No
Oxonia Active	-22°F/ -30°C	OK	No
Oxxium 200	32°F/0°C	No	Yes
Penn Gel C	14°F/-10°C	OK	No
Pet Guard II-B	22°F/-6°C	Yes	No
Phosphoric Acid FG	1°F/-17°C	OK	No
PL-10	17.6°C	OK	No
Polix XT		Striations - Warm to room temperature - Mix - Usable	No
Poly-Brite	31°F/-1°C	Precipitate & separation - Warm to room temp- Mix - Usable	Yes
Quorum Pink II HF	14°F/-10°C	Precipitate - Warm to room temperature - Mix - Usable	Yes
Quorum Yellow	8°F/-13°C	Thickens- Warm to room temperature - Usable	No

Freezing Point - Canadian Products			
Product	Freezing Point	Freeze/Thaw Stable?	Shipping Restrictions?
Regain Non Ammon		OK	No
Sani Case	20°F/-7°C	OK	No
Sani Glide (Canada)	15°F/-9°C	Separates	Yes
SHC Extreme	<-14.8°F/-26.0°C (10855-71)	Yes (10883-11)	No
Solodigm		OK - No restrictions	No
SPF Liquid Chlor	<10°F/<-12°C		No
Stabicip Therm (Canada)	0°F/-18°C	Slight separation - Warm to room temperature - Mix - Usable	Yes
Stabilon 180	23°F/-5°C	OK	No
Status	32°F/0°C	OK	No
Ster-Bac	32°F/0°C	OK	No
Stone Remover	-22°F/-30°C	OK	No
Super Kabon	32°F/0°C	OK	No
Tsunami 100	-17°F/-28°C	Still liquid	No
Tsunami 200	25°F/-4°C	OK	No
Ultrasil 01	14°F/-10°C	OK	No
Ultrasil 110	25°F/-4°C	Slight separation - Warm to room temperature - Mix - Usable	No
Ultrasil 22	24°F/-4°C	Precipitate - Warm to room temperature - Mix - Usable	Yes
Ultrasil 63	28°F/-2°C	Separates - Warm to room temperature - Mix - Usable	No
Ultrasil 75	-31°F/-35°C	Still liquid	No
Ultrasil 76	-31°F/-35°C	Still liquid	No
Ultrasil 90 Plus (Canada)	50°F/10°C	Cloudy w/crystals - Not usable	Yes
Ultrasil 91	0°F/-18°C	Still liquid	No
Ultrasil MP	24°F/-5°C	Still liquid	No
Vektor 100		OK	No
Vital 4	25°F/-4°C	OK	No
Vortexx	25°F/-4°C	OK	Yes
Winter Lube	-30°F/-34°C	OK	No
XY-12	0°F/-18°C	OK	No
Zango	40°F/4°C	OK	No