

## HX-1 Esters for Food Processing Technical Data Sheet

Food processing lubricants are nonfood compounds that can be used in applications where incidental food contact is possible. In the 1970's, the USDA recognized that a food processing factory requires operational fluids that are not intended to be part of the food. These include pesticides, sanitizers, and cleaning compounds as well as lubricants. USDA published a "white book" of acceptable nonfood compounds that were safe if used properly. Acceptable lubricants for incidental food contact are listed in the **H1** category.

The USDA stopped publishing this list in 1998. Today NSF International and InS Services have assumed a prominent role, providing third party confirmation that **H1** registered food processing lubricants are safe for their intended use.

The HX-1 category is used for ingredients such as base oils and additives that can be used to formulate an **H1** lubricant. To be clear, HX-1 ingredients and **H1** lubricants are for incidental food contact only. They are not food additives and cannot be intentionally added to food.

Synthetic Ester	Chemistry	Viscosity @40°C(cSt)	Viscosity @100C(cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
Lexolube IPO	Oleate	5	2	n/a	175	-25
Lexolube NBS	Stearate	6	2	200	195	20
Lexolube GT-855IG	Glyceryl	15	4	135	235	-15
Lexolube 3N-310	Polyol	19	4	140	270	-45
Lubricit 5399	Polyol	21	5	140	285	-30
Lexolube FG-22 HX1*	Polyol	22	5	140	250	-50
Lexolube FG-46 HX1*	Polyol	46	8	135	270	-45
Lubricit TMP C18-VEG	Oleate	46	9	190	325	-45
Lubricit GMO-VEG	Oleate	50	9	145	290	0
Lexolube FG-68 HX1*	Polyol	68	10	125	290	-45
Lexolube FG-100 HX1*	Polyol	100	12	120	300	-35
Lexolube FG-220 HX1*	Polyol	220	19	95	300	-25
Lubricit 9537	Polyol	300	22	90	300	-5
Lubricit 9526	Complex	330	45	185	320	-40
Lexolube FG-350 HX1*	Polyol	350	24	85	300	-20
Lexolube CG-3000	Complex	3000	290	230	320	-20

### Features

- ▶ Thermal/oxidative stability
- ▶ Low volatility
- ▶ High flash point
- ▶ Clean performance
- ▶ Low temperature fluidity
- ▶ Long service life

### Applications

- ▶ Compressor oils
- ▶ Chain oils
- ▶ Grease
- ▶ Gear oils
- ▶ Adjuvant- lubricity additive

\*Certain methods and uses may be covered under one or more awarded or pending patents held by Zschimmer & Schwarz worldwide

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