

The shelf life of Ethanol and Solvent Products supplied by Wilmar BioEthanol are detailed in the tables below.

Shelf life is as advised by the manufacturer and/or supplier and is applicable to material stored under recommended conditions. Products should be stored in accordance with any storage and handling requirements detailed in Safety Data Sheets. The Safety Data Sheets for Wilmar BioEthanol products can be obtained at www.wilmarbioethanol.com or upon request.

Product that has exceeded its defined shelf life or that has been maintained outside of the recommended storage conditions may still be quality compliant. In these instances, periodic monitoring (relevant to the product and application) is recommended to verify the quality status of the product.

1. Ethanol & Other Solvents

Ethanol and other solvents supplied by Wilmar BioEthanol should be stored sealed and protected from moisture. As some products are hygroscopic, care needs to be taken to ensure they are adequately protected from atmospheric moisture. Products should be stored at ambient temperature and where possible, protected from direct sunlight.

1.1 Drums & Pails

PRODUCT	SHELF LIFE	NOTES
Acetone	1 year	From date of packing
Esterflex Blends	1 year	From date of packing
Ethanol – Drums	18 months	From date of packing
Ethanol – Pails	6 months	From date of packing
Ethyl Acetate	1 year	From date of packing
Ethoxy Propanol	6 months	From date of manufacture
Flexol/Cleansol Blends - Drums	1 year	From date of packing
Flexol/Cleansol Blends - Pails	6 months	From date of packing
Iso-Propanol	2 years	From date of packing
Methanol	1 year	From date of packing
Methyl Isobutyl Ketone	6 months	From date of packing
n-Propanol	1 year	From date of packing
n-Propyl Acetate	1 year	From date of packing
Propylene Glycol (USP)	2 years	From date of manufacture
t-Butanol	1 year	From date of packing

1.2 Bulk (including IBCs)

For bulk ethanol and other solvents, the shelf life is undefined due to the variability in storage and handling conditions associated with bulk containers and storage tanks. As storage tanks/vats have high turnover and road tankers, isotainers and IBCs are only intended for temporary storage, shelf-life data has not been established by manufacturers and/or supplier.

The shelf-life details above can be used as a guideline for bulk products with good storage conditions.

The information provided in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation. No responsibility can be accepted by Wilmar BioEthanol for errors and omissions. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes, compliance requirements and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.

Document Review Records:

DATE	REVIEW DETAILS	REVIEWED BY	APPROVED BY
21/09/10	1 st Issue.	Q & T Manager	Q & T Manager
05/11/10	Updated web details from CSR to Sucrogen and removed methanol. Packed ethanol product 2 yr shelf life	Q & T Manager	Q & T Manager
21/05/12	Packed ethanol product 6 month shelf life	Q & T Manager	Q & T Manager
17/03/14	Updated to Wilmar format, added methanol, changed IPA BP from 6 to 12 months, added specialty & oleochemical products. Ethanol Drums 12 months & Pail 6 months.	Q & T Manager	Q & T Manager
25/08/15	Updated specialty and oleochemicals lists.	Quality Chemist	Q & T Manager
09/05/16	General update and allocated document number QAI-008.	Quality Chemist	Q & T Manager
07/02/17	Updated oleochemical information.	Quality Chemist	Q & T Manager
10/04/19	Changes to clarify shelf life requirements for Esterflex and Flexol products.	Quality Supervisor	Q & T Manager
01/10/19	Minor Updates. Additional of New Products, Changed Stevia from 2yrs to 3yrs	Quality Supervisor	National Quality & Technical Manager
22/11/19	Separated Wilmatol in to two lines as they have different shelf lives	Quality Supervisor	Q & T Manager
10/02/20	Updated to clarify Ethanol & Other Solvents information for bulk and packaged products. Numbered sections. Reduced review period from 2 to 1 years.	Q & T Manager Quality Supervisor	National Quality & Technical Manager
03/03/20	Corrected error in MCT shelf life, changed from 1yr to 2 yr	Q & T Manager Quality Supervisor	National Quality & Technical Manager
17/03/20	Added Acetone & t-Butanol with a shelf life of 1 year as advised by the suppliers.	Quality Systems Co-ordinator Q & T Manager	National Quality & Technical Manager
04/05/21	Major Review	Quality Supervisor	National Quality & Technical Manager
01/06/22	Created into a DMS document. Removed references to Oleochemicals and Speciality ingredients	Quality Systems Coordinator	National Quality & Technical Manager
13/04/23	Added Cleansol with a shelf life of 1 year for drums and 6 months for pails.	Compliance/ QA Officer	National Quality & Technical Manager