

# **ASTROBIO™ K80**

## Bio solvent blend, replacement of isopropyl alcohol

## **Technical Data Sheet**

**Product name: ASTROBIO™ K80** 

Manufacturer: Liberty Chemicals s.r.l. (Italy)

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#### Area of Use:

Bio-based solvent blend replacement of isopropyl alcohol in many industrial applications. It's used to formulate coatings, adhesives, paints and inks based on epoxies, vinylics, polyesters, melamines, polyvinyl alcohols, urethanes, and phenolics resins. It has a great solvency power for rosins, nitrocellulose and some kinds of nylons as well. It's also used for formulating sustainable paint strippers, machinery, industrial and household detergents. ASTROBIO™ K80 has unique bio-static properties to provide an ideal wipe solvent in different kinds of applications. It's used for leather finishing and it's available in cosmetic grade for formulation of nail varnishes and polishers. It's also used for cold degreasing in industrial settings to remove different kinds of resins and soils. ASTROBIO™ K80 can be used to modulate ASTROBIO™ AP or DS evaporation rate if needed.

## **Technical Benefits:**

- Very effective as cleaner and degreaser in industrial settings.
- Outstanding properties in formulation of leather refinishing coatings.
- Dries completely and leaves no residue.
- Easy and inexpensive to distill or recycle.
- Strong solvency power for different resins, polymers grade and soils.
- Ideal wipe solvent for cleaning purposes.
- High loading capacity.

#### **Available Packaging:**

Drums	IBC	Bulk
162Kg	810Kg	≥ 10MT
net weight	net weight	net weight



## **Key Features:**

#### Bio-based solvent according to EN 16575

Flashpoint	- 4° C	EN 3679
RER (BuOAc=1)	3,46	Calculated
Vap. pressure (20°C)	6,36 kPa	Calculated
Boiling range	76° - 78° C	-

## Solvency power:

LICD's	δd	δр	δh	δt	Calculated
порѕ	15,80	8,17	17,21	25,02	Calculated

#### **Environmental Benefits:**

- Readily biodegradable raw materials.
- Slow Climate change: carbon neutral balance.
- Sustainable chemistry: renewable raw materials.
- No ozone depleting chemicals (ODC).
- No environmental hazardous ingredients.
- No hazardous air pollutants.

#### **Health Benefits:**

- Aromatics, ketones, paraffins, alogens and terpenics FREE.
- Fruity and pleasant smell.



## **Guaranteed Specifications**

Properties	Standard	ASTROBIO™ K80	Units
Appearence	Visual	Clear colourless liquid	-
Colour	ASTRO0011	20	Pt-Co (APHA), Max
Specific gravity (20°C)	ASTRO0021	0,78 – 0,84	g/mL
Moisture	ASTRO0031	0,2	% in weight, max

## **Technical Performances and properties**

Properties	Standard	ASTROBIO <sup>TI</sup>	<sup>M</sup> K80			Units
Chemical composition	-	Blend of organic acids esters and alcohols <sup>2</sup>			-	
Solvency power: HSP's	Calculated	δd	δр	δh	δt	Mpa <sup>1/2</sup>
		15,80	8,17	17,21	25,02	
Boiling range	-	76 - 78				°C
Flashpoint	EN 3679	- 4				°C
Evaporation rate	Calculated	3,46				RER (BuOAc=1)
Vapor pressure (20° C)	Calculated	6,36				kPa
Dynamic Viscosity (25° C)	ASTRO0041	≈ 1,05				mPa.s

### **Environmental characteristics and Biodegradabilty**

Properties	Standard/Reference	ASTROBIO™ K80	Units
Ready Biodegradability <sup>3</sup>	OECD 301 series	> 85	% w/w in 10 days window
Ultimate biodegradability4	-	100	% w/w at 67 days
Water hazard	WGK Germany	1	Class
VOC content	Directive 2010/75/UE and Swiss Regulation (814.018)	100	% w/w
	Directive 2004/42/CE	100	% w/w

This product has to be subjected from any industrial or professional user to careful tests, in order to evaluate his effectiveness for expected applications. Our company waives any responsibility in case of any improper usage of this product.

Manufactured in Italy (Europen Union).

ASTROBIO™ is a trade mark of Liberty Chemicals s.r.l. (Italy)

**Issued by:** ASTROBIO™ division | Liberty Chemicals s.r.l. (Italy).



#### Footnotes:

- 1. Analysis conducted according to an internal standard protocol.
- 2. All ingredient are REACH registered.
- 3. Product has not been tested itself to access ready biodegradability, but all raw materials used during manufacture are classified as readily biodegradable according to one or several of the following OECD guidelines: OECD 301 A, B, C, D, E, F.
- 4. Product has not been tested itself to access ultimate biodegradability, but all raw materials used during manufacture are completely (100%) biodegradable in 67 days or less.