

## Evaluation Report for Category L, Subcategory 1.1 Application

**Application Number:** 2019-6947  
**Application:** Submission subject to the *Protection of Proprietary Interests in Pesticide Data* (PPIP) policy - Equivalency/Data Compensation Assessment  
**Product:** Mascol 80  
**Registration Number:** 34713  
**Active ingredients (a.i.):** n-decanol and 1-octanol  
**PMRA Document Number:** 3354970

### Purpose of Application

The purpose of this application was to register Mascol 80, a new source of n-decanol / 1-octanol technical grade active ingredient mixture, based on a registered precedent.

### Chemistry Assessment

Common Name: *n*-decanol, *n*-octanol  
 IUPAC\* Chemical Name: 1-decanol, 1-octanol  
 CAS† Chemical Name: 1-decanol, 1-octanol

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Mascol 80 has the following properties:

Property	Result
Colour and physical state	Colourless to slightly yellow liquid
Nominal concentration	55.8 % <i>n</i> -decanol, 43.1 % <i>n</i> -octanol
Odour	Musty odour
Density	0.818 g/cm <sup>3</sup>
Vapour pressure	5.9 Pa at 25°C
pH	6.17
Solubility in water	0.035 g/L
<i>n</i> -Octanol/water partition coefficient	logK <sub>ow</sub> ~ 4.4 (estimated)

The required chemistry data for Mascol 80 have been provided, reviewed, and found to be acceptable.

### **Health Assessments**

Aliphatic alcohols are considered to be of low acute oral, dermal and inhalation toxicity, severely and sometimes non-reversibly irritating to the eye, slightly to moderately irritating to the skin, and generally not skin sensitizers.

There are no dietary (food or drinking water) concerns when the product is used according to label directions.

An occupational exposure assessment was not required for this application.

### **Environmental Assessment**

After a scientific review of the available information, the PMRA has concluded that the environmental risks associated with the uses of Mascol 80 are acceptable when used according to the label directions.

### **Value Assessment**

A value assessment was not required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the registration of Mascol 80.

## References

<b>PMRA Document Number</b>	<b>Reference</b>
3067024	1994, Determination of the Chemical Characteristics of a Fatty Alcohol Blend Product Chemistry, DACO: 2.11.1, 2.11.2, 2.11.3, 2.11.4 CBI
3067025	1994, Determination of the Chemical Characteristics of a Fatty Alcohol Blend Product Chemistry, DACO: 2.12.1, 2.13, 2.13.1, 2.13.2, 2.13.3, 2.13.4 CBI
3067026	1994, Determination of the Chemical Characteristics of a Fatty Alcohol Blend Product Chemistry, DACO: 2.14.15, 2.14.3, 2.14.5, 2.14.7, 2.14.9, 830.7000 CBI
3067027	2008, Physical and Chemical Characteristics of Technical Grade Fatty alcohols; Oxidation/Reduction, Flammability, Explodability, UV/Visible Absorption and Viscosity, DACO: 2.14.12, 2.14.14, 2.16 CBI
3067029	2010, Physical and Chemical Characteristics of Technical Grade Fatty Alcohols Storage Stability and Corrosion Characteristics, DACO: 2.14.14 CBI
3067031	2010, Physical and Chemical Characteristics of Technical Grade Fatty Alcohols; Stability to Normal and elevated temperature, Metals and Metal Ions, DACO: 2.14.13 CBI
3067033	1990, Phase 3 Summary Fatty Alcohol Product Chemistry (Alfol 810), DACO: 2.14.1, 2.14.2, 2.14.6 CBI
3137067	2020, Reply to E-mail for O-TAC Registration, DACO: 2.13.3, 2.2 CBI
3137068	2017, Fatty Alcohol Process Flow, DACO: 2.11.2, 2.11.3 CBI
3294074	2021, Final Report for: Preliminary Analysis of Mascol 80, DACO: 2.13.3 CBI
3092546	2007, USEPA Reregistration Eligibility Decision For Aliphatic Alcohols, DACO: 12.5

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