

Biodegradation Certificate

CASSIS BASE 000345 B

We hereby declare that the above-mentioned fragrance is manufactured by Firmenich and contains ingredients giving the following breakdown with regard to biodegradable and non-biodegradable ingredients.

BIODEG, READILY+INHERENTLY	81.4401%
BIODEG, NON	5.4375%
BIODEG, NATURAL UNTESTED	12.4975%
BIODEG, UNTESTED	0.6249%

1. General Approach for presenting % biodegradables in a perfume formula

For any formula we refer for each ingredient to available data on its ready and inherent biodegradability. This allows us to calculate for any formula the % of ingredients that are readily and inherently biodegradable ("BIODEG, READILY & INHERENTLY") or have been shown not to be readily biodegradable ("BIODEG, NON"). Ingredients which have not been tested are accumulated as % BIODEG, UNTESTED. In view of the difficulty of testing complex mixtures of only partially known chemical composition, most of the natural essential oils and extracts have not been tested. These are indicated under % BIODEG, NATURAL UNTESTED. The %s are in weight/weight and are subject to change as more and more tests for biodegradability are carried out.

2. Sources of information

The data has come from several sources. We run biodegradation tests (OECD series 301, 302) on new and proprietary chemicals for registration purposes. We are also running internal (GLP) tests using the method OECD 310 & 301F. We have also been maintaining files on reports of biodegradation test data (whether pass or fail) on all chemically defined ingredients that we use. The RIFM database has been used as a source as has the ECB's IUCLID database. We also attempt to obtain data from suppliers. Ingredients for which no tests have been run are indicated as "UNKNOWN" and their total concentration is presented as a % like the other classes.

Neuilly-Sur-Seine, 06 September 2018

Ref.: PSRA /

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