

Everyone knows that “Green” means environmentally friendly but what is the actual definition of a green product? Since green for one person might be totally different from what somebody else perceives as such, IPAC Chemicals Ltd. has developed the Greenscore; a formalized way of applying a metric to the term *green*.

Research staff has come up with a systematic way to evaluate the green content of the IPAC and Power Chemicals product line. A product’s Greenscore can be evaluated by giving the product a rating between 1 and 10: 10 being very environmentally friendly and 1 being very polluting and hazardous.

The evolution of the IPAC Greenscore is simple and transparent. Every product is evaluated by six categories using common industry standards:

- *Mammal toxicity and Carcinogenicity*: Measured by conducting studies on mice, rats and rabbits.
- *Environmental Toxicity*: Measured by conducting studies on fish, crustaceans and algae.
- *Degradability*: Measured as biodegradability (OECD 301) for products that are not made up of the most common minerals of earth’s crust.
- *Regulations*: Include TDG (Transportation of Dangerous Goods) as well as WHMIS regulations.
- *Dosage*: A low dosage product will be greener than a high dosage product (more actives, less water transported, etc)

All of these categories are well defined, recognized and provide fair and objective metrics to calculate the Greenscore of a product.

Toxic chemicals are typically less green; for example Ethylene Glycol (IEG 100 Greenscore = 3.6) has a Greenscore that is 2 to 3 points lower than Propylene Glycol (IPG 100 Greenscore = 6.0).

IPAC LWT 668, a closed loop treatment containing Molybdenum (a heavy metal) has a Greenscore of 6.4 due to toxicity and regulation of the element. Comparably LWT G 698, an all organic closed loop treatment, has a Greenscore of 9.7.

There are no carcinogenic materials in any of our products.



engineered chemical solutions

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IPAC Greenscore



The IPAC and POWER product range averages a Greenscore of 8.5

As a comparison here are typical household chemicals and their Greenscores:

Vinegar	9.9
Drano	8.1
Household bleach (6%)	7.6
Refrigerant	6.7
Battery Acid	5.3

In the development of any product, we believe that the environmental impact must be minimized not only as a concern to our customers, but to our future.



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