HOW DOES SAFR® WORK?

SAFR® allows for the measurement of the sustainability profile of individual flame retardants based on their use. By using the latest available scientific data, SAFR® ensures the use of the appropriate flame retardant for the application in question and when needed, the replacement with an effective and more sustainable solution. Building on accepted hazard criteria, SAFR® assesses the extent to which hazards translate into potential risks due to possible exposure to humans and/or the environment during a product’s service life.

SAFR® has an exposure-based approach that utilizes quantifiable accelerated blooming, leaching or volatilization data from the base material matrix to thoroughly evaluate the use of the chemical in the chosen application. SAFR®’s assessment of the given flame retardant leads to the identification of:

1. Uses that are either recommended, acceptable or not recommended, or
2. Unacceptable hazards in which case alternatives can be identified.

 HOW WE ASSESS EXPOSURE

Our exposure assessment has a two-tiered approach. We consider both:

1. The frequency of contact during the intended use (eg. TV, computer, car seats, insulation boards);
2. The potential emissions of the FR used due to either migration to surface (blooming), leaching or volatilization.

ABOUT ICL INDUSTRIAL PRODUCTS

ICL-IP, part of the ICL group, manufactures and markets a broad range of industrial chemicals based on phosphorous, bromine, magnesium, chlorine and salts. We harness our assets and capabilities and lead in the development of innovative and creative solutions that address the essential needs of humanity in an ever changing world.

HOW CAN I FIND OUT MORE ABOUT SAFR®?

More information about SAFR® is available for any interested party upon request to ICL-IP. Please send any request you may have to SAFR@icl-group.com or to your local ICL sales manager.

OUR ASSESSMENT OF FLAME RETARDANTS IN THEIR USES

<table>
<thead>
<tr>
<th>HAZARD EXPOSURE</th>
<th>LOW POTENTIAL</th>
<th>MEDIUM POTENTIAL</th>
<th>HIGH POTENTIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RECOMMENDED</td>
<td>RECOMMENDED</td>
<td>ACCEPTABLE</td>
</tr>
<tr>
<td>LOW POTENTIAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEDIUM POTENTIAL</td>
<td>RECOMMENDED</td>
<td>ACCEPTABLE</td>
<td>NOT RECOMMENDED</td>
</tr>
<tr>
<td>HIGH POTENTIAL</td>
<td>ACCEPTABLE</td>
<td>NOT RECOMMENDED</td>
<td>NOT RECOMMENDED</td>
</tr>
</tbody>
</table>

PROVIDES REASSURANCE IN YOUR CHOICES
OUR OBJECTIVE
HELPING YOU AND YOUR CUSTOMERS MAKE INFORMED CHOICES

WHERE WE STARTED

2012
DEVELOPMENT
OF CONCEPT

2013
DRAFTING
OF METHODOLOGY

2014
THIRD PARTY
VALIDATION

2015
LAUNCH

WHAT WE ACHIEVED SO FAR

APPLICATIONS
30

MATRICES
20

FLAME RETARDANTS
45

NEW PRODUCTS IN
ASSESSMENT PIPELINE
All

RESULTS OF OUR ICL FLAME RETARDANTS PORTFOLIO ANALYSIS:

ICL encourages a more sustainable flame retardant

10% SAFR®
Non-Recommended
for specific application

25% SAFR®
Acceptable
for specific applications

65% SAFR®
Recommended
for specific applications

WHAT THEY SAY ABOUT US

"Top performing in hazard and exposure assessment category"

"Drives alternatives assessment science by integrating exposure"

FIND OUT MORE ON OUR WEBSITE
WWW.SAFRWORKS.COM

icl-group.com