

# World Leading Distributor of Speciality Additives and Polymers

Advanced Materials



# Dan Andersson

## Background

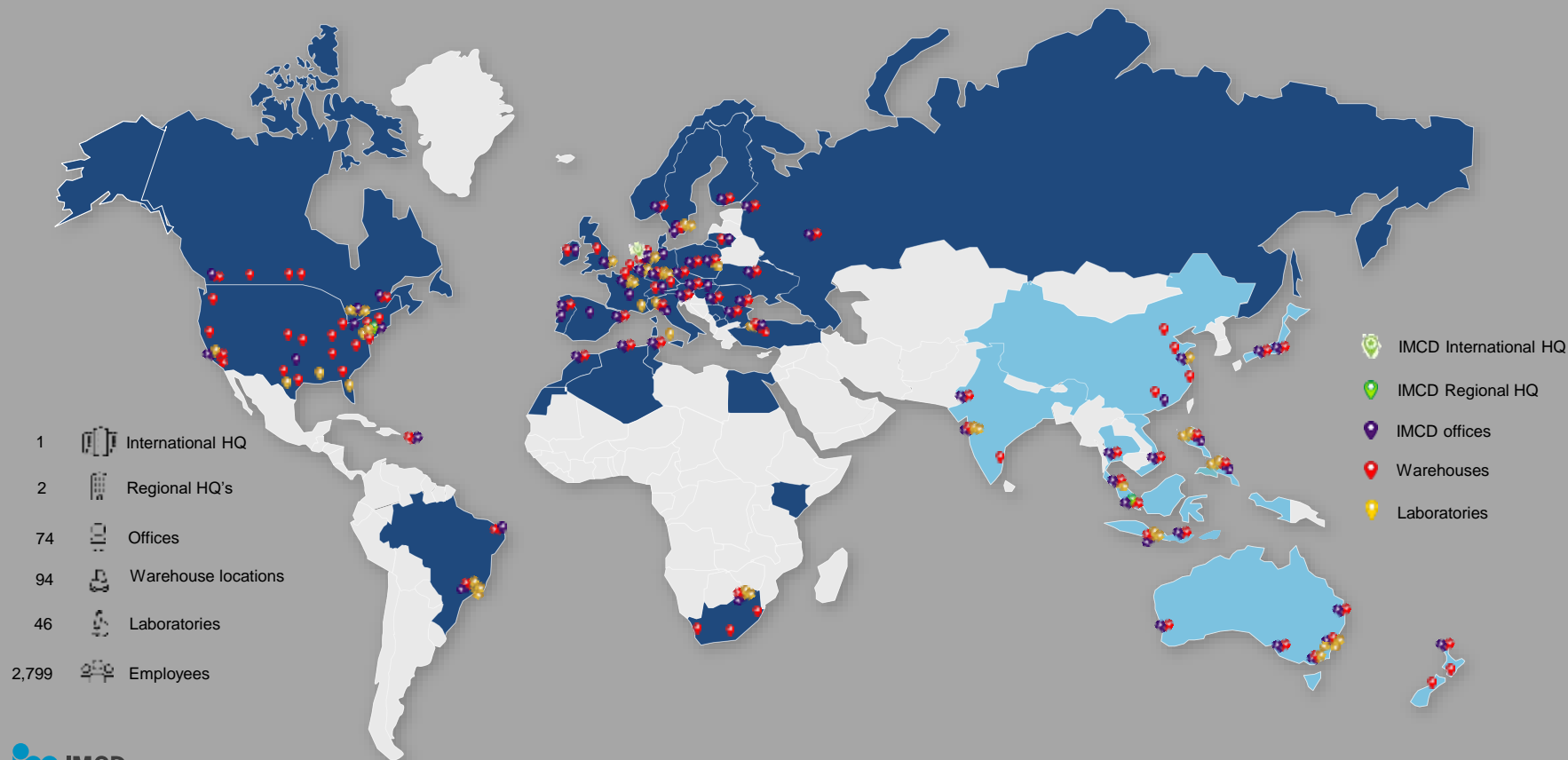
Career in Army, 1st Sergeant

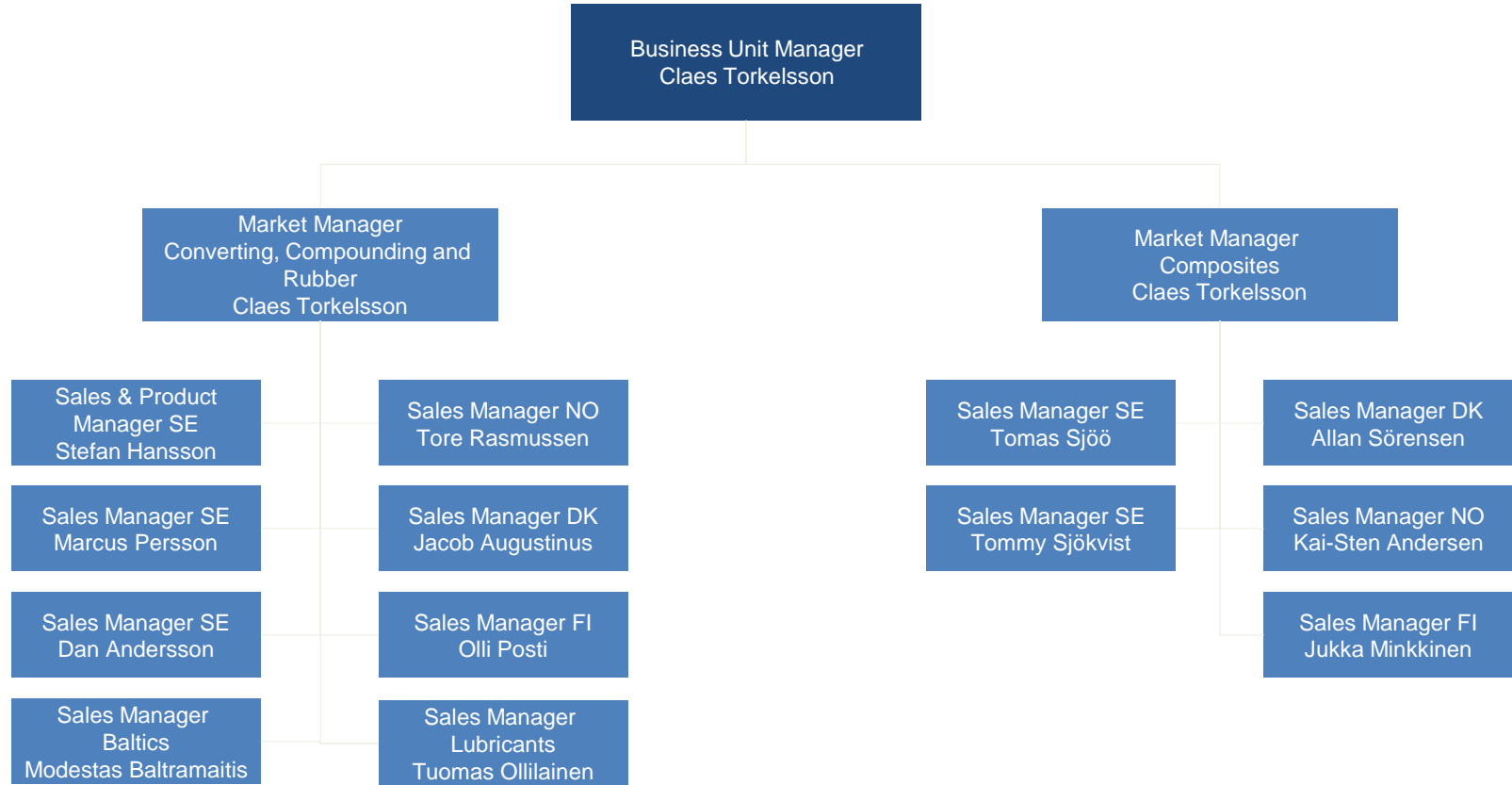
A. Schulman Lab, Quality & Technical Support  
Manager

IMCD Sales Manager Advanced Materials



# Global Presence







plastic impact on environment



www.forbes.com › grrlscientist › 2018/04/23 ▼ [Översätt den här sidan](#)

## Five Ways That Plastics Harm The Environment (And One ...

23 apr. 2018 - **Plastics** may actually be co-opted to help reduce harm to the **environme** only if we stop screwing it up in all those other ways we mess ...

www.nationalgeographic.com › habitats › plasti... ▼ [Översätt den här sidan](#)

## Plastic pollution facts and information - National Geographic

7 juni 2019 - **Plastic** pollution has become one of the most pressing **environmental** iss rapidly increasing production of disposable **plastic** products ...

www.independent.co.uk › environment › plasti... ▼ [Översätt den här sidan](#)

## How plastic is damaging planet Earth | The Independent

28 sep. 2017 - There are 500 times more pieces of **microplastic** in the sea than there ... away, either into landfill sites or into the general **environment**.

www.theguardian.com › environment › may › s... ▼ [Översätt den här sidan](#)

## Single-use plastics a serious climate change hazard, study ...

15 maj 2019 - ... end now, says first ever estimate of **plastic's** cradle-to-grave **impact**. ...

**Environmental** Law, which estimates the greenhouse gas footprint of ...



## Industry Focus

- Educate (IMCD Academy)
- Global Focus On recycling
- R&D Alternative sources
- Use appropriate material for the application



Reducing  
Food Waste



Lighter  
Cars



Energy  
Saving

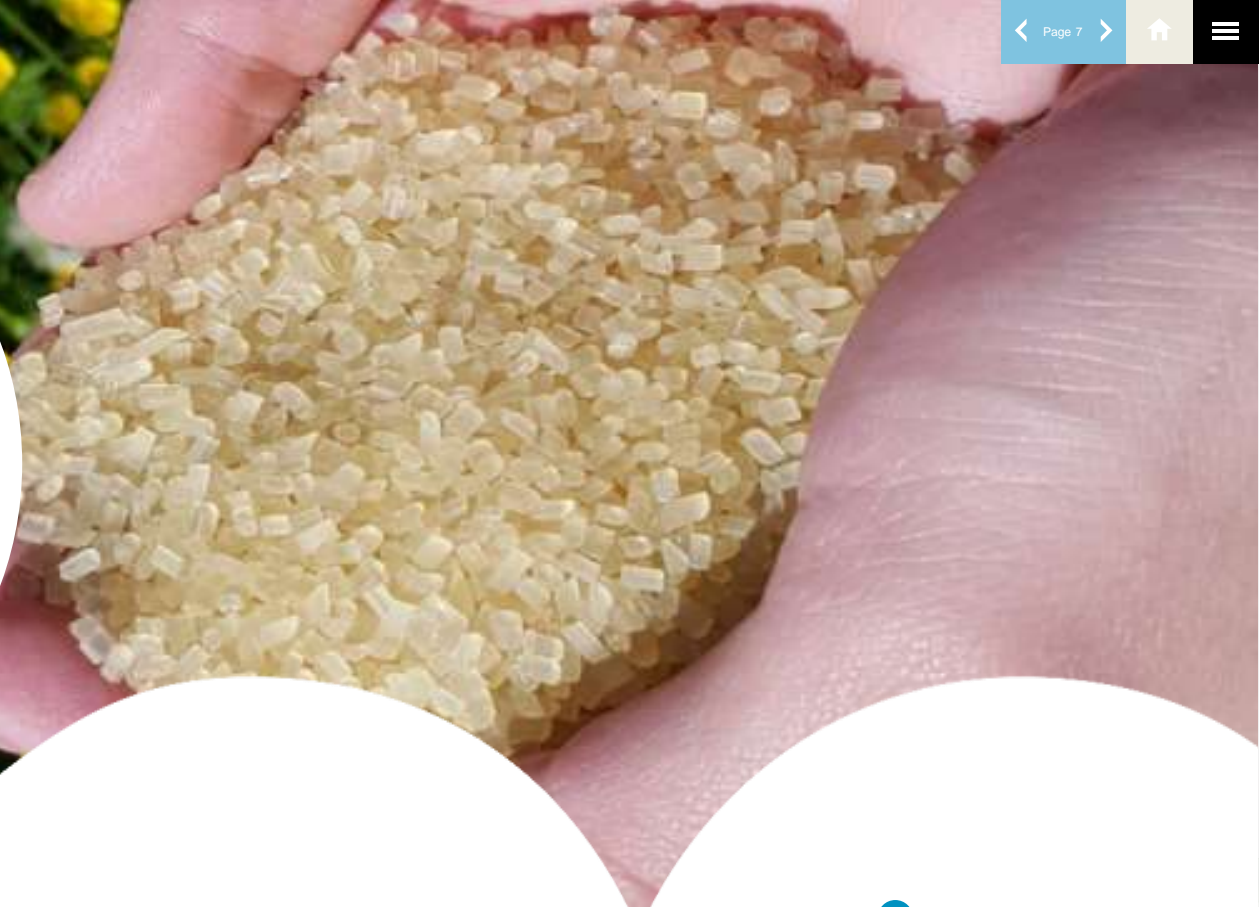


Recycling

# Why are We Using Plastics

## Alternative Sustainable Materials





$$\square \text{tgmkl} \ell \text{m}^2 \text{mgmmtmm}^2 \ell \text{tmm}^2 \text{km}$$

$$\text{kgmmmm}^3 \text{mm}^2 \ell \text{tmm}^3 \text{cm}^2 \text{mm}^3 \text{m} \quad \uparrow \rightleftharpoons$$


< □□□\$<□\$□□>> □□<↑



□  $f \Leftrightarrow$  □□□  $\uparrow$  □□

» ↑ □ □ □ ↑ > \$ □ ↑ ↔ ↓

↔◻↔»\$◻↑↔↓◻◻↔◻◻↑◻£

$\text{kg cm}^2 \text{ mm}^2 \text{ m km}^2 \text{ l k l m e k l m}^2 \text{ in.}$   
 $\text{km mm}^2 \text{ mm}^2 \text{ m e k l m g d l mm}^2 \text{ l t}$   
 $\text{kg}$

↔ gmm<sup>2</sup>mmℓmm<sup>3</sup>oz.mm<sup>2</sup>km °Cmm<sup>3</sup>tkm<sup>2</sup>  
mgmmgrtℓmm<sup>2</sup>amka



® ¶ ¶ □ ↓ kēē cm²kēēkēm  
 □ tmmgmtmm³ēē² cm²kēēkēm m gmmmmmmmm  
 © ¶ ¶ dē ¶ □ ēmm°C  
 cm²mmmtkēgmin. mm³ē ©¶©¶

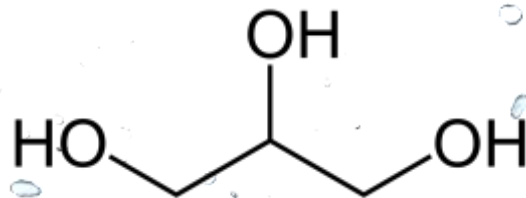


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 766603



# Composition

↑ mm<sup>3</sup> me m<sup>3</sup>  
mg mm<sup>3</sup> mm<sup>2</sup> mm<sup>3</sup> me  
mm kg mm<sup>2</sup> mm<sup>3</sup> e  
mm mm gm





# MATERIAL PROPERTIES



## WATER SOLUBLE

↓  $kl\ gmm^2kgmm^3kmccmm^2kg$   
 $mmcm^2tm^2gm$   
 $kmmm^3kgkgklmccmm^3kl$



## ALIMENTARY

□  $klklkm\ mkl\ etmmmt$   
 $mmcmmm^3m\ mm^3tin.$   
 □  $kmmm^3cm\ mm^2$  □  $d\ mm\ kmmm^2$   
 $klcct\ klcm^2\ @\ 11\ \div\ cm^2klklkm$   
 $m^2gm\ mm\ kmmm^2$   
 $mm^2l\ m^2gm\ mm^2km\ mm^2m^2\ l\ tkg$   
**INDUSTRIALISED**



«  $kl\ l^{\circ}\ mm^2gmtm^3cm\ mm^2\ kl\ mm\ mm\ mm$   
 $tkm^2mm^2\ m\ ggm\ kl\ mm^2kg\ ggm^2kg\ klcm^2$   
 $tkm^2mm^2\ m\ gm\ mm\ kg\ tm^2m\ kg$   
 $mm^2\ km\ cc\ kg\ tgm\ in.\ m\ kl\ l^{\circ}\ C$   
 $tm^2\ d\ m\ gm^2\ gm\ mm\ tcc\ gm\ mm^2$   
 □  $mm^2mm\ mm\ mm\ cm\ mm\ mm^2$   
 $\neq\ \Phi\ \square\square\square\ \$\leftarrow\square\square\square<$



## GAS BARRIER

OILS & FAT  
 BARRIER  
 MOSH / MOAH



## SUPPORT MATRIX FOR ACTIVE INGREDIENTS

<  $km\ kmmm^3tm^3kl\ klcm^2$   
 $m\ kl\ m\ kl\ gmm\ m\ l\ tkg\geq\ cm^2m\ mm^{\circ}\ kl\ cc\ gm\geq$   
 $cm^2m\ mm^2\geq\ m\ gg\ mm^2kg\ mm^2gm^{\circ}\ mm^2l\ m^2$   
 $mmmm^2m^2\ l\ tkg\geq N$



## PRINTABLE

¥  $mm^2tkm^2klcct\ m\ gg\ mm^2/tgm\ mm^2m\ m\ d\ mm^2l\ t$   
 $\neq\ gm\ mm^2l\ tm^2l\ m^2\geq$   
 $m\ mm\ cm\ mm^2m\ mm\ mm^2l\ m^2\pm\ m\ gg\ m\ kl\ km\ cc\ m\ t$   
 $m\ kl\ km\ mm^2l\ m^2$

# A UNIQUE TECHNOLOGY

## GREEN CHEMISTRY

↓ kē cckgmm<sup>2</sup> kēgm m<sup>3</sup>mm<sup>2</sup>lmm<sup>3</sup>gmmmtmm<sup>3</sup>kēl kēcm<sup>2</sup>  
 km<sup>3</sup>mnoz.mmgmkmkēcckg kgcccmkgmm<sup>2</sup>lmm<sup>3</sup>kg  
 □mm<sup>2</sup>kmccrmm<sup>2</sup>kg tkmm<sup>2</sup> lmm<sup>3</sup>m<sup>3</sup>mtmm<sup>3</sup>°mm<sup>2</sup>  
 mm<sup>2</sup>dēmgmmmtkg kēcm<sup>2</sup> mkmm<sup>2</sup>dēmm<sup>3</sup>mm<sup>3</sup>l  
 mggmkēkmccmtkg mm<sup>2</sup>lkm mggmkēlmm<sup>2</sup>kgkgmm<sup>2</sup>kg  
 kēl km<sup>2</sup>ccdlmm<sup>2</sup> km<sup>3</sup>mm<sup>3</sup>mm<sup>2</sup>ltkm<sup>2</sup> mm<sup>2</sup>lkm tkmm<sup>2</sup>  
 mm<sup>2</sup>lmm<sup>3</sup>gmkēlēdēmm<sup>2</sup>l

## ADAPTED FOR PLASTIC PROCESSES



## MARKE TS



»mm<sup>2</sup>mm<sup>2</sup>gmm<sup>2</sup>mm<sup>2</sup>lmm<sup>2</sup>min. ±  
 «km<sup>2</sup>mm<sup>2</sup>dēmm<sup>3</sup>mm<sup>3</sup>mm<sup>2</sup>lkg



ēgmkēkmccmtkg  
 °Cgmmmmgmm<sup>2</sup>lmm<sup>2</sup>



<m<sup>2</sup>gmm<sup>2</sup>/cm<sup>2</sup>kēlēlkm

## 100% BIO-SOURCED

↑mm<sup>2</sup>lmm<sup>2</sup> ēgmkēlmm<sup>2</sup>mm<sup>2</sup>l  
 ± mgmēmm<sup>2</sup>lēt cmm<sup>2</sup>kgmm<sup>2</sup>km<sup>2</sup>  
 mm<sup>2</sup>km<sup>2</sup>mm<sup>2</sup>lmm<sup>2</sup>°mm<sup>2</sup>kg

ISO-16620-2:2015



# A LARGE SCALE OF BUSINESS OPPORTUNITIES

CARTON / PAPER LAMINATION



FOOD PACKAGING



PRODUCT WRAPPING



BUILDING



BLEND



LIQUID DETERGENCY



SOLID DETERGENCY





Color – Plastic – Additive Education

BioPlastics and Additives Education

Role of Plastics In Our Society Education

## Contact Us



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THANK YOU



IMCD