

LUBRICANTS WITH A HEART FOR GLASS



glassline[®]

What are we talking about ???

LUBRICANTS ARE CHEMICALS ...

CHEMICALS ARE CONTAMINANTS !!!

USE THEM LESS & BETTER

Can we stop this?



Glassline® product range

 One partner to lubricate your forming process

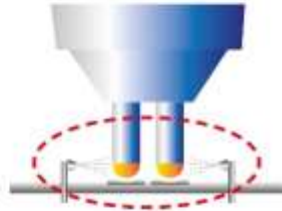
IS Machine

GLASSLINE® IS Special 100
GLASSLINE® IS Special 220



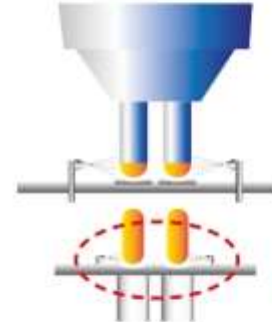
Shear

GLASSLINE®
Synshear F



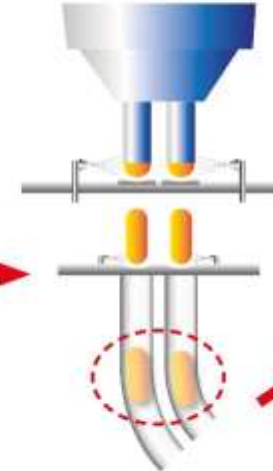
Scoop

GLASSLINE®
Scoop Lubricant



Delivery

GLASSLINE®
DDL 899



Product range

Glassline® product range

➡ One partner to lubricate your forming process

Blank Mould

GLASSLINE®

Pre-coat & BML for manual swabbing / containers & tableware

GLASSLINE®

SwabMatic for automatic swabbing

GLASSLINE®

SwabPharma for pharma clean & safe swabbing



Gob dropped into blank mould



Neck Ring Mould

GLASSLINE®

Neck Ring range for manual swabbing

GLASSLINE®

SwabMatic for automatic swabbing



Neck formed



Finishing Mould

GLASSLINE® Release Agents



Final shape blown



Conveyor

GLASSLINE® Conveyor Lube



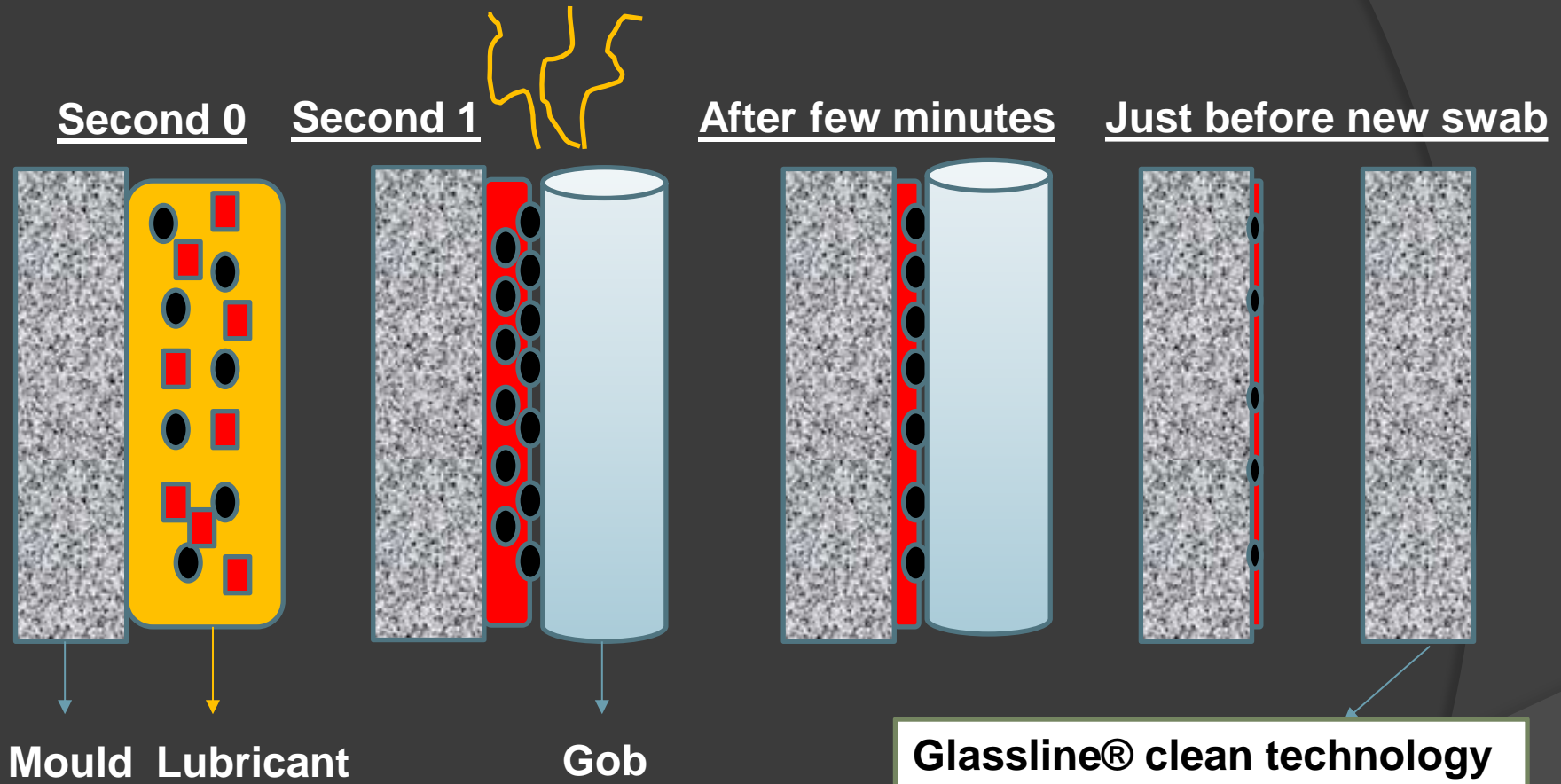
What happens during lubrication ???

Chemicals + heat = new chemicals

**New chemicals = acceptable or
dangerous**

!!! Smoke & solid residues !!!

Mould swabbing



Glassline® clean swabbing technology

- High purity and multi-sources of graphites
- Highly refined synthetic base oils
- Safe & performant additives
- No raw materials from animal sources

**Customized formulated for your process
with or without swabbing robot !!!**



HOW CLEAN CAN YOU GO ?

Test case Glassline® manual swabbing

Start with new mould material / 20 sections machine / 2x gob / nnpb

	<u>Glassline®</u>	<u>SC</u>
He Pack %	96,97% (+0,69%)	96,28%
Blank Changes/day	11,9 (-5,9)	17,8

Profit = +22 200 bottles/day

Cleaning cost 5,9 moulds/day = higher than cost of lubricant

Lubricant consumption = approx. 4 kg/day

or 320 g/day with swabbing robot !!!

Pollution of blank moulds / baffle (runtime 75 Hr.)

Glassline®



Soft carbon deposit
Easy to remove.

SC



Hard carbon deposit
Difficult to remove.

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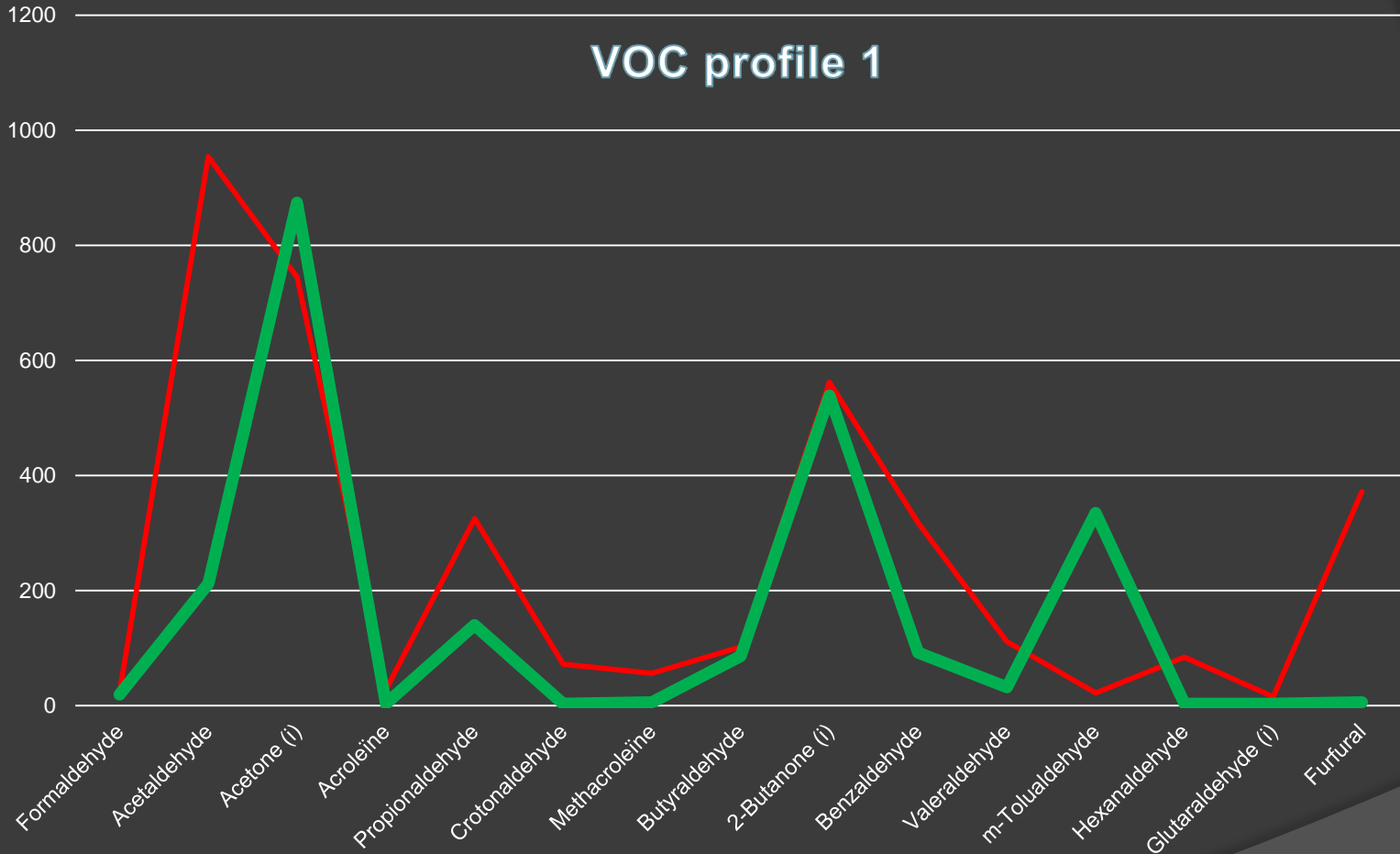


HOW SAFE CAN YOU GO ?

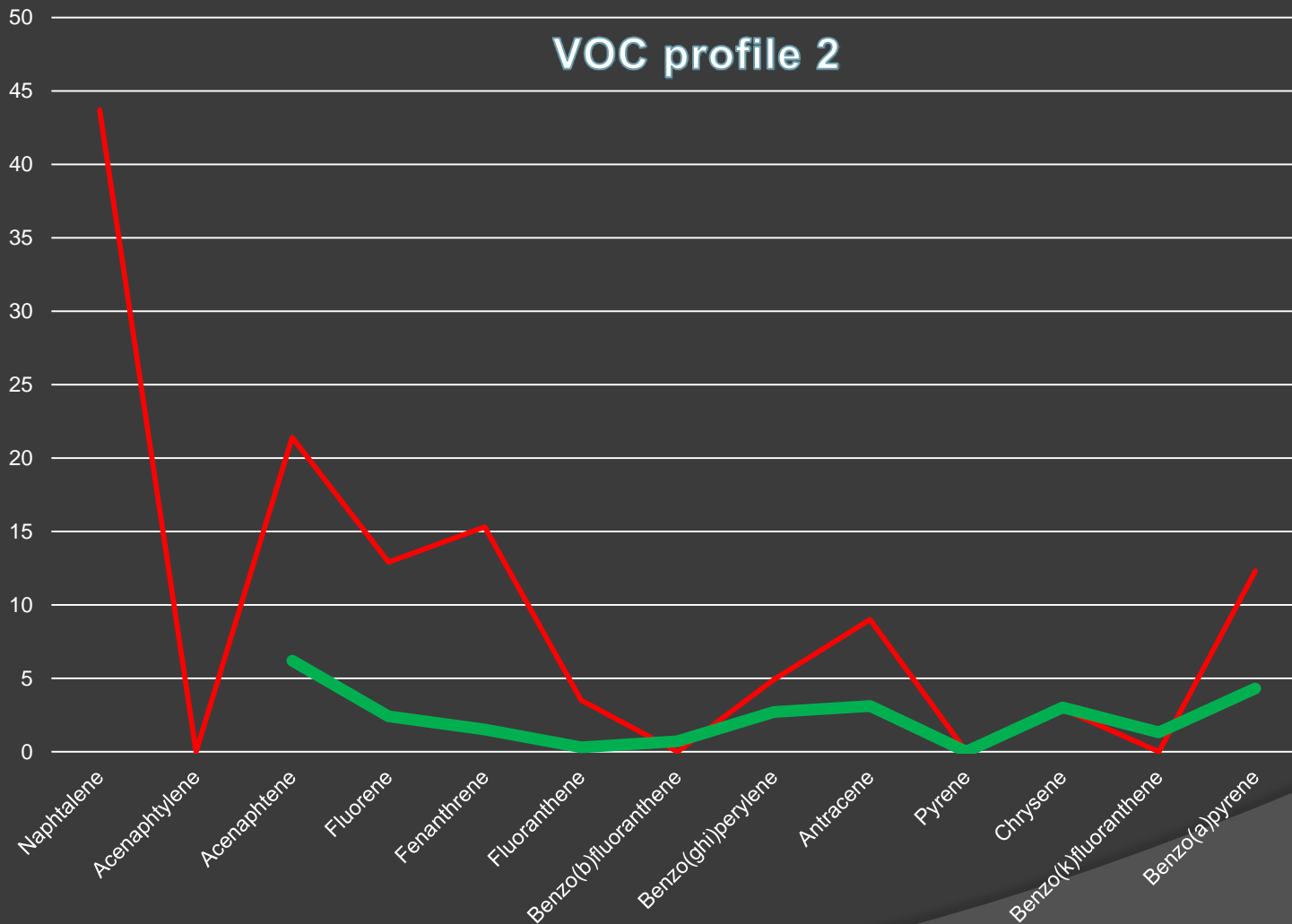
Glassline® SwabPharma

- Food/pharma grade base oil technology
- Volatile Organic Compounds reduced by avg. 50%
- Impressive low carbon residue
- Patented technology

Glassline® SwabPharma



Glassline® SwabPharma



Glassline® summary

- Work with a passionate, innovative & expert lubricant company
- Focus on Chemical Safety & Process Performances
- Swab at the highest level

**Swab with Glassline® SwabPharma &
Glassline® SwabMatic**

Glassline®

**THANK YOU
&
LET'S MAKE
A LOT OF
BOTTLES !!!**