

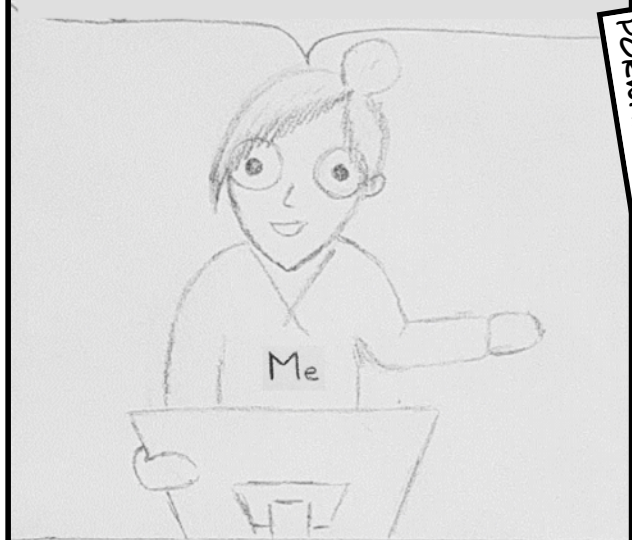
PAINTING THE WAY FOR CHANGE

BY
REBECCA JONES

Good Afternoon. I'm here today to discuss paint.



Most of us here will use paint within our lifetimes for 'decoration, protection, identification [or] sanitation'.



POWAL 2015, 1

I for one am currently in the middle of redecorating and repainting part of my family home.



I even bought this lovely tub of Dulux paint to do so.



But is it lovely? Dulux was given an ethical rating of C and scored 37 out of 100 ethical index points. And it's not surprising.



SHOP ETHICAL 2016, GOOD
SHOPPING GUIDE 2014

Thousands of substances are found in paints and many can affect both the environment and health.



DE OLIVEIRA ET AL 2011,
PORWAL 2015

Continued exposure of workers in paint manufacturing industries has put many employees in harm's way; 45,600 at AkzoNobel, the owner of Dulux, alone.



IARC 1989, AKZONOBEL 2015

Several sources argue that prolonged inhalation and dermal contact with these chemicals can lead to increased cancer risk.



DE OLIVEIRA ET AL 2011,
HOWELL 2012

The World Health Organisation, for instance, 'reported a 20-40% increased risk... of cancer' among paint workers.



PORWAL 2015, 2

Other ailments include headaches, asthma, skin and eye irritation and strain on vital organs. Even Dulux stated that exposure to the solvents in their paints could lead to 'respiratory system irritation'.

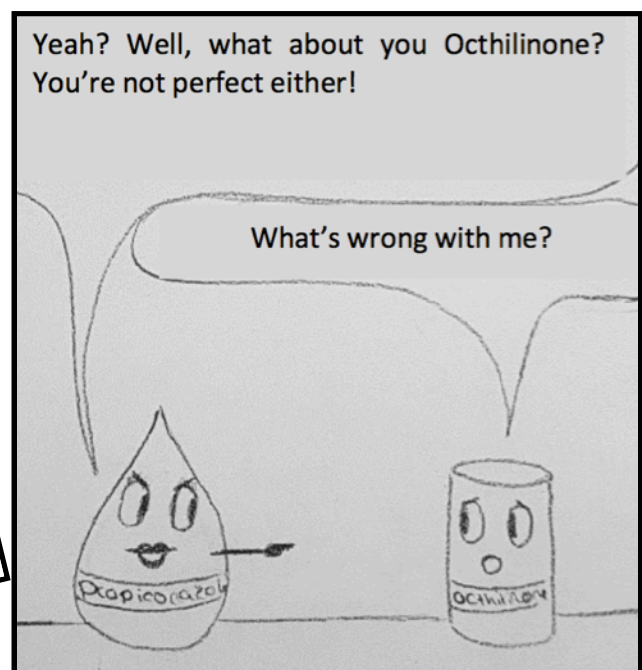
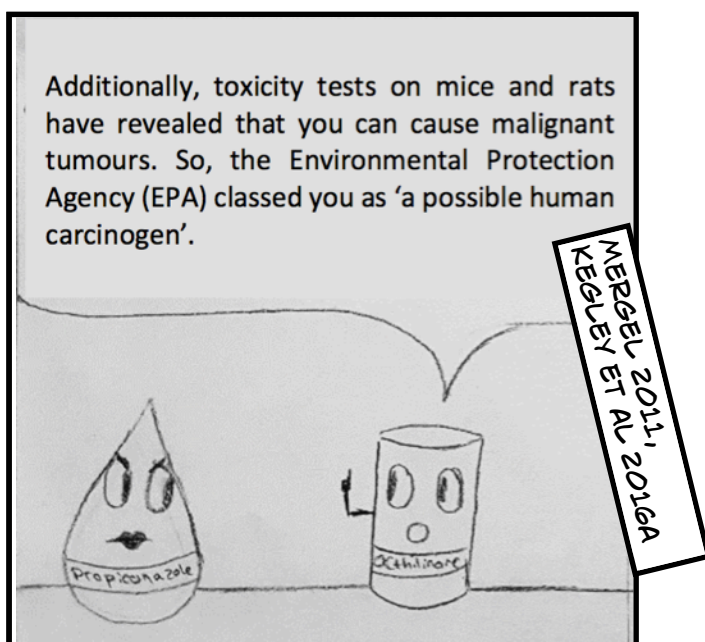
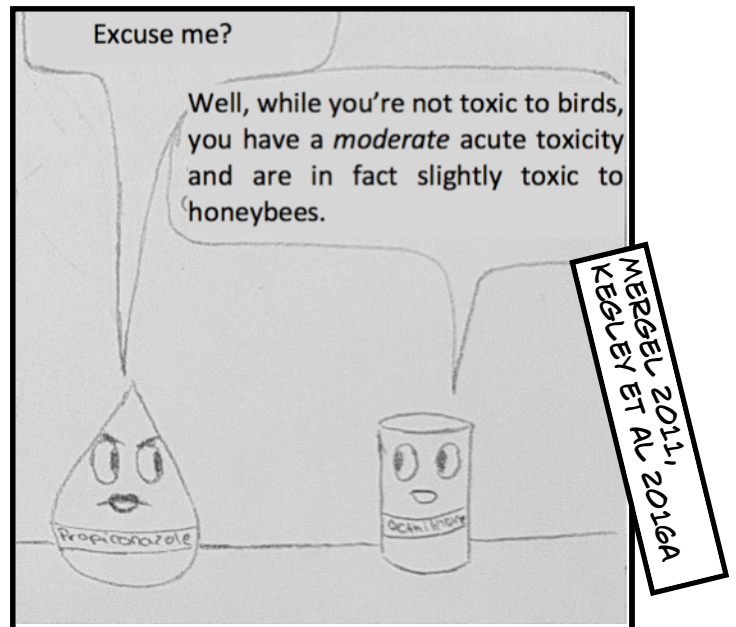
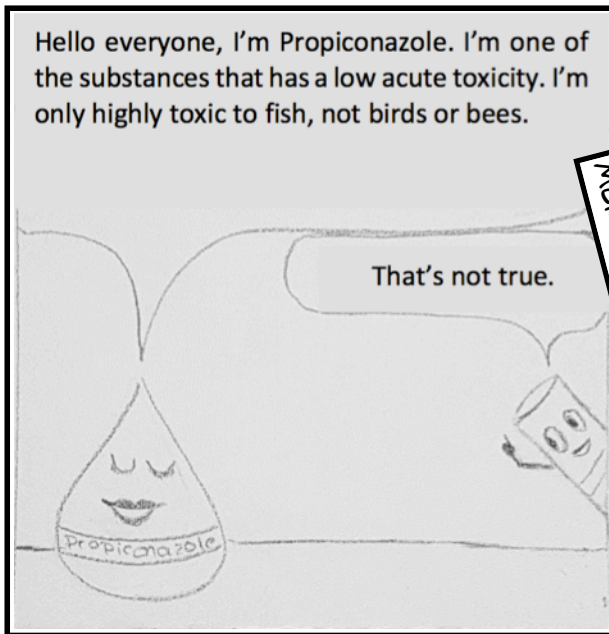
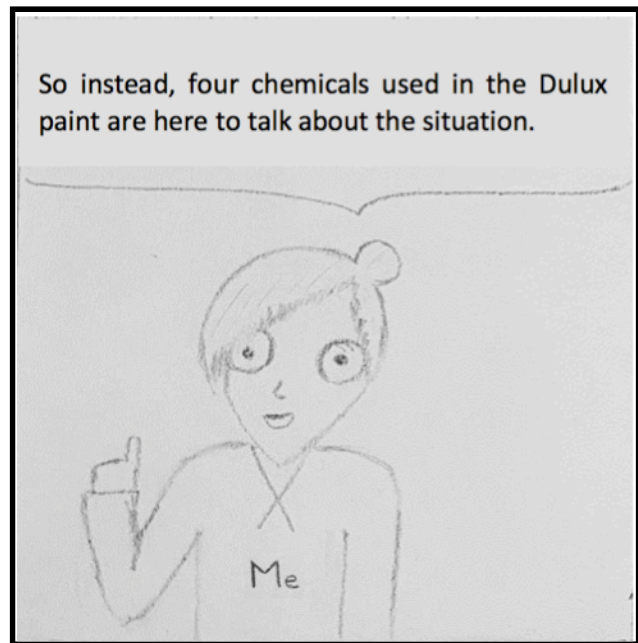


IARC 1989, HOWELL
2012, DULUX TRADE
2014, 3, PORWAL 2015

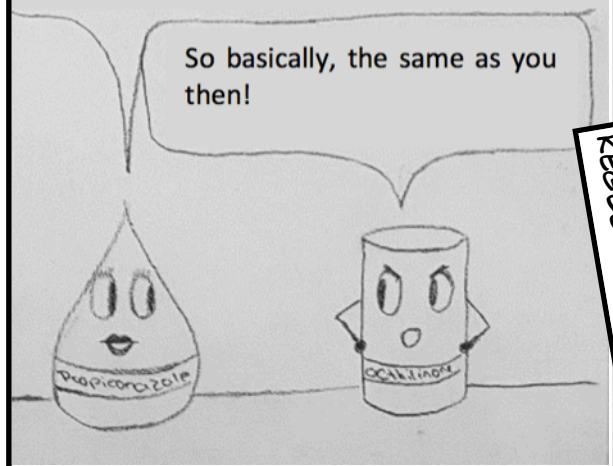
I asked a representative from Dulux to make a statement on the matter but I did not receive a response.



DULUX 2016 PERS COMM

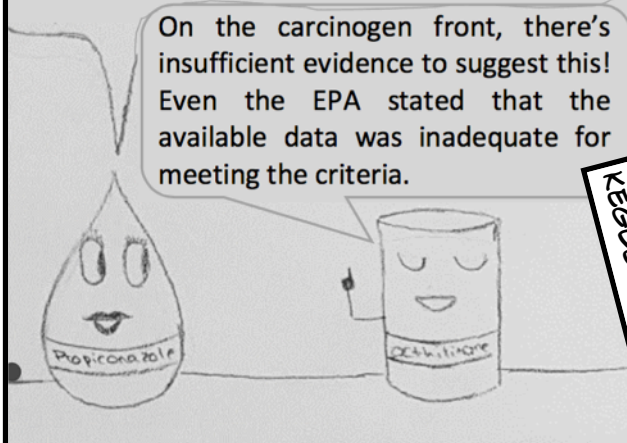


You're listed as 'highly toxic' by the EPA as well as 'slightly hazardous' by the World Health Organization (WHO) since you're moderately to highly toxic to zooplankton, fish and crustaceans.



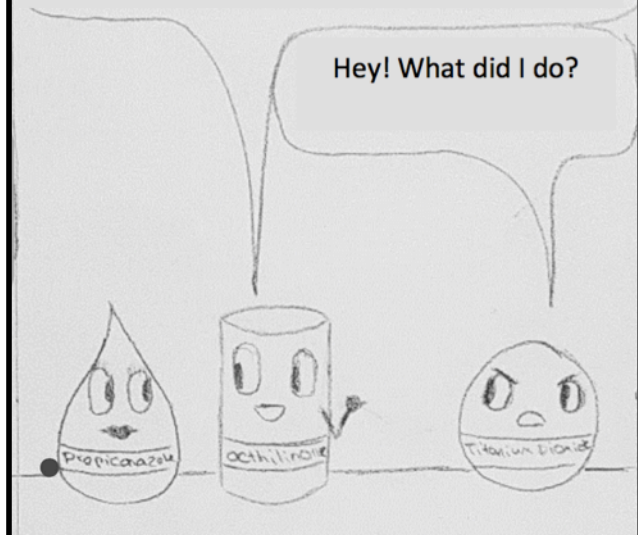
KEGLEY ET AL 2016A

There are also concerns that you may be carcinogenic to humans.

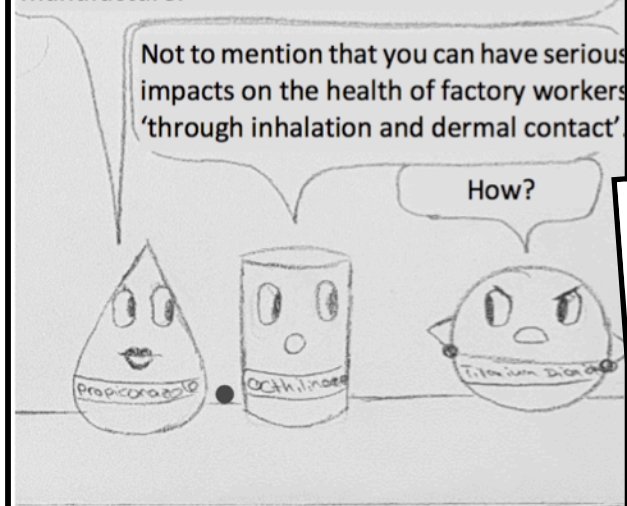


US EPA 2007, 2016B
KEGLEY ET AL 2016B

Besides, we both know Titanium Dioxide is the worst.

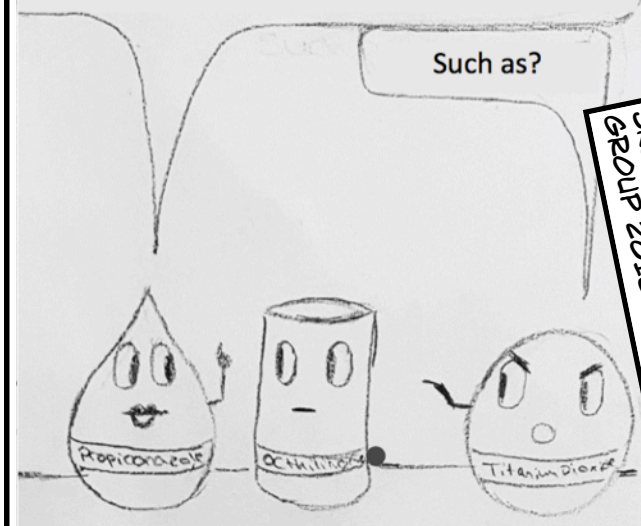


You contribute to environmental pollution from the emissions and waste produced during your manufacture.



NOSH 2013 IN PUBCHEM
2016, FORWAL 2015

Occupational exposure via inhalation causes oxidative stress and can lead to lung problems.



SKOCAL ET AL 2011
GROUP 2013

Cell damage

Lung inflammation

Genetic mutations

Reduced immune responses

Granulomas

Thanks, Zinc Pyrithione



PIMENTEL 1992, TRAN ET AL 2000,
SKOCAL ET AL 2011, GROUP 2013

You've also been listed as a possible carcinogen by the International Agency for Research on Cancer (IARC).

That's true. A study of workers in six European Titanium Dioxide factories revealed significant increases in lung cancer rates.

SKOCAL ET AL 2011,
TDMA 2013

Oh! And you can cause the release of toxic gas!

Look, what happened at the Cristal Pigment factory wasn't my doing. It was Titanium Tetrachloride's fault for coming into contact with water.

But Titanium Tetrachloride is used to make you!

KAPIAS & GRIFFITHS
2005, PIDLIZNYJ 2016

The toxic gas cloud that erupted from the vessel killed one worker and injured two others!

Then it was the factory's fault for violating the Health and Safety at Work Act of 1974.

But I don't see why you're picking on me. What about Terbutryn?

DAILY MAIL 2010, PIDLIZNYJ 2016

What about him?

Well he's toxic too!

KEGLEY ET AL 2016C

Only slightly.

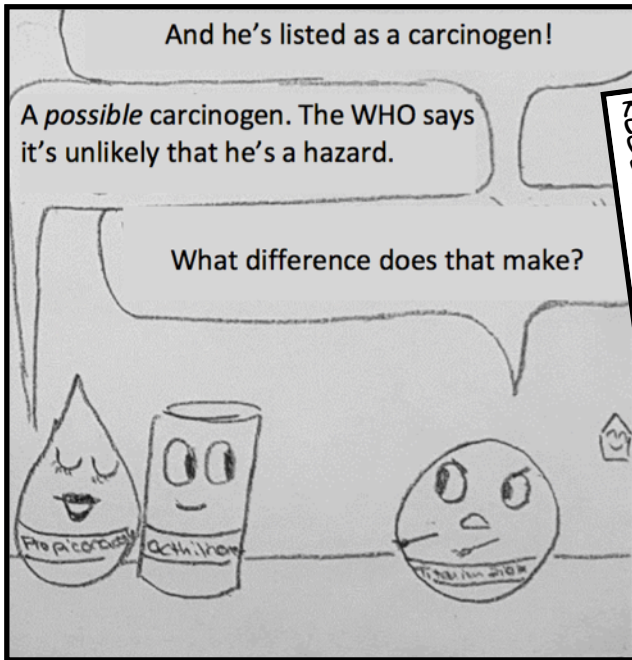
Yeah, high toxicity among humans is unlikely unless they've ingested a large amount of him.

KEGLEY ET AL 2016C

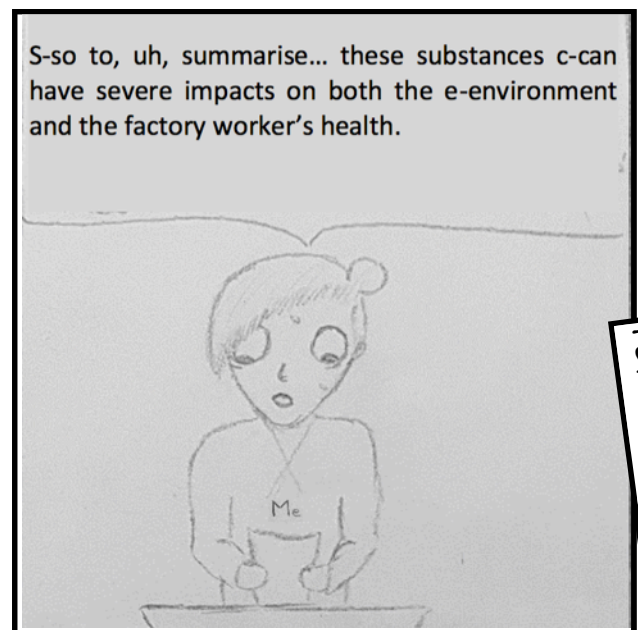
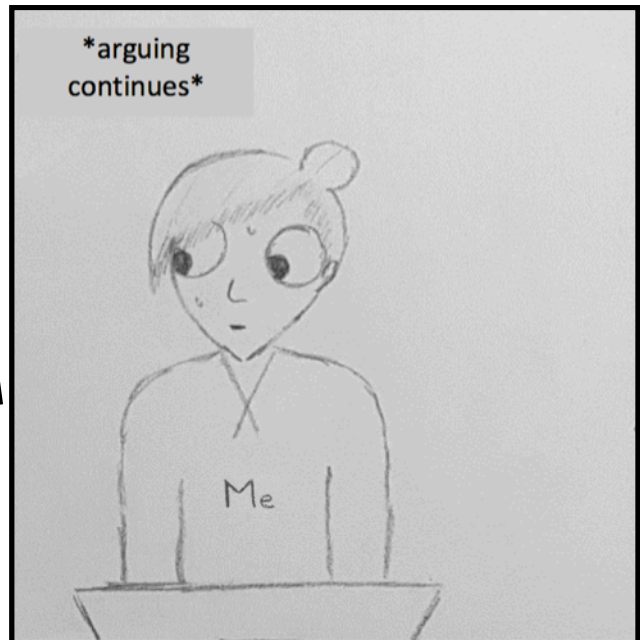
Plus he's toxic to fish!

Moderately toxic. Not highly toxic.

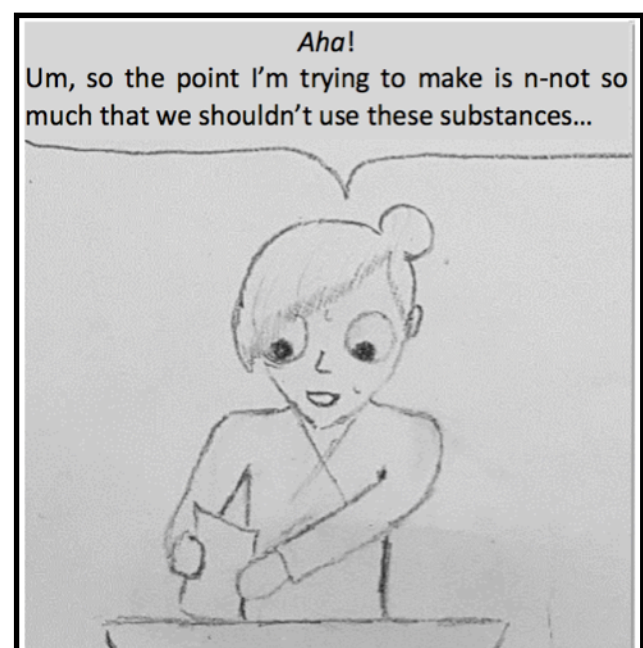
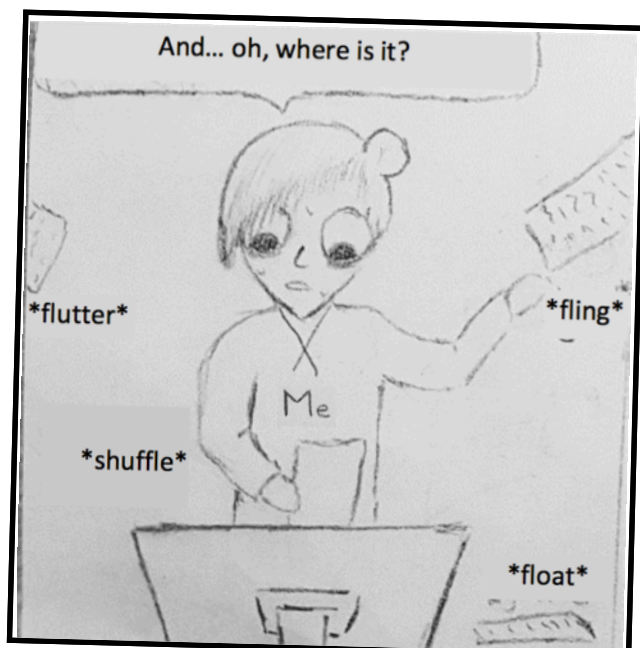
KEGLEY ET AL 2016C



KEGLEY ET AL 2016C



POEWAL 2015

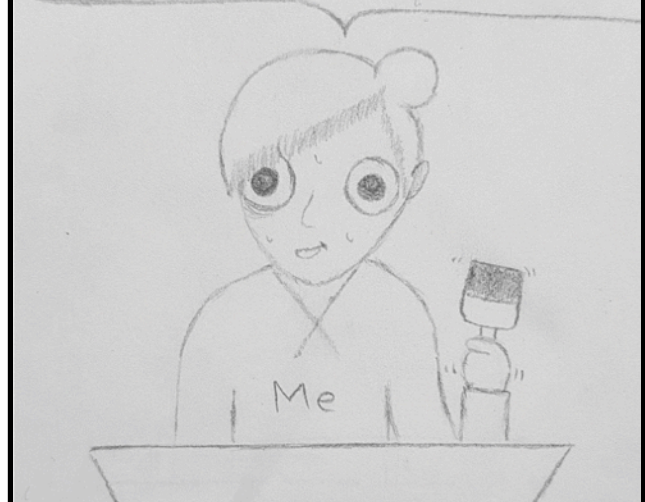


...b-but that we s-should be fighting to ensure that more effective s-safety measures are applied...



...t-to protect the environment and the f-factory workers, like those working for Dulux.

T-Thank you.



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THIS COMIC PRODUCED AS COURSEWORK FOR THE GEOGRAPHIES OF MATERIAL CULTURE MODULE AT THE UNIVERSITY OF EXETER, 2016-7, AND HAS BEEN REFORMATTED BY IAN COOK FOR PUBLICATION ON FOLLOWTHEBLOG.ORG.