

# Technical Report

## Technical Topics

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## Advantages of our Environmentally Friendly Operation (Environmental issues, UV inks and Water-based inks)

Environmental issues are becoming more and more important. We are taking the lead with our programs to provide environmentally friendly products. Our standards of operation have been High Quality, High Functionality, Reasonable Pricing and Reasonable Delivery. To this we have added Human-friendly, Earth-friendly, Conservation of Resources and Safety in our development of new products.

### 1. Our response to the safety and environmental regulations.

- (1) NL (Negative List) regulation proposed by the Printing Ink Industry Association of Japan. Carcinogenic substances including heavy metals shall not be used in inks.
- (2) PRTR (Pollutant Release and Transfer Register).  
We are trying to reduce the substances regulated by PRTR. Also we do manage and report as regulated in the PRTR.
- (3) VOC (Volatile Organic Compound)  
We are developing UV-curable inks and water-based inks which do not use VOCs. We are trying to reduce the lower boiling point solvents, which tend to evaporate into the air.
- (4) MSDS  
We prepare and issue the MSDS of our products and send them on request to inform users of any toxicity or risk from the use of our products and how to handle them safely.
- (5) Green purchasing: green level of screen inks as decided by Japan Printing Industry Association. We are approved as "Level 2"  
Conditions to be Level 2 are, (1) Comply with NL Regulation, (2) Comply with PRTR and prepare MSDS. (3) Use water-based inks and UV Inks except in cases where the functionality cannot be obtained with these inks.  
Now we are aiming to be approved as "Level 1".  
To be approved as level 1, PRTR substance shall not be used.
- (6) Personal attention to individual customers' needs  
We supply product information for overseas regulations.  
Also we help our customers in preparing certificates for such purposes as verifying the non-use of chemical substances or when there is a request for a list of environmentally harmful

## 2. Some examples of our response to reduce adverse environmental effects of our products.

Water-based Inks	Reduce VOC, water-based inks which are human friendly and environmentally friendly.	JAQ ink PAW Ink
UV inks	Reduce VOC, resource conservation ink.	UV inks
Solvent type inks	Solvent inks which meet Green purchasing Level 1. Does not contain benzene, toluene, Xylene, and isophoron.	IPX ink INO ink FMX ink

We will continue our efforts to comply with domestic and worldwide regulations and contribute to the preservation of the global environment and its eco-systems.

We do not use any harmful heavy metals such as lead, cadmium, mercury, chrome, etc. We also do not use any carcinogenic substances listed in NL list.

As safety consciousness increases, customers' requests for safety information are increasing. We respond to customers' requests individually.

We promise that we will continue to produce products that are Human-friendly and Earth-friendly, and also that Conserve Resources and are Safe.

Regarding further detail, please do not hesitate to contact us

