

Nikkacure Series Photoinitiators

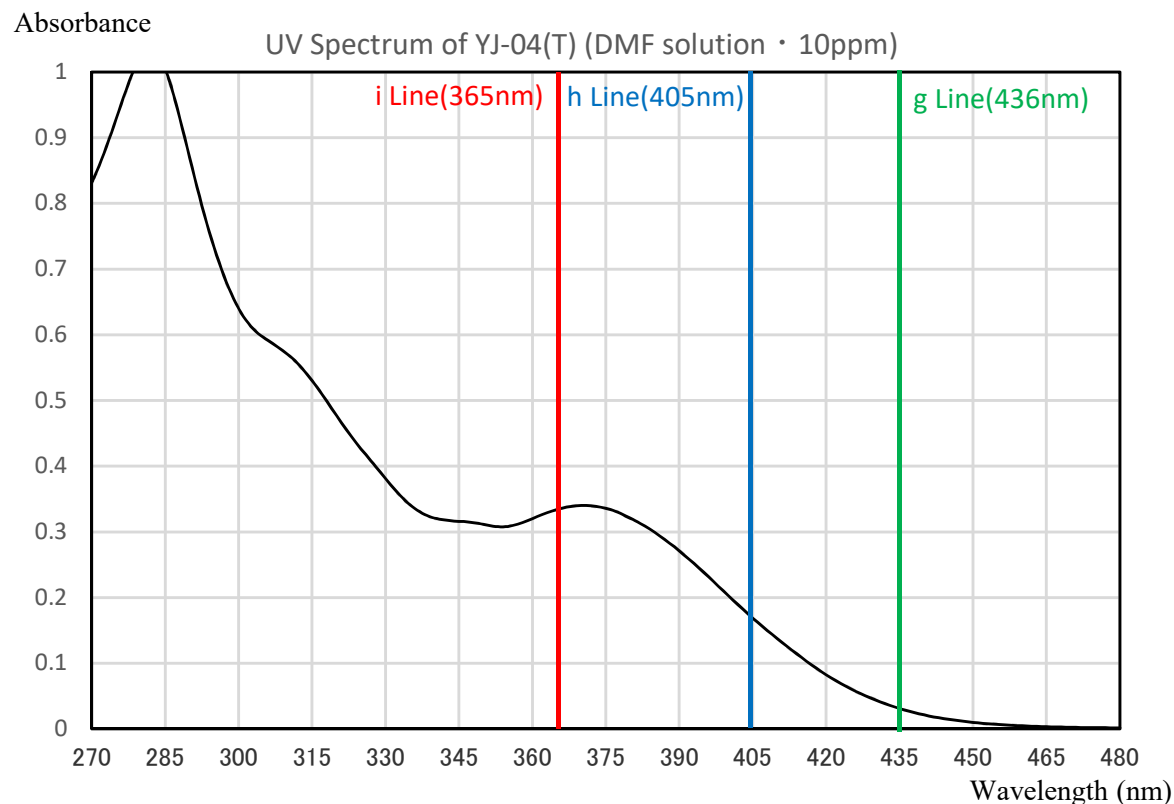
NIPPON CHEMICAL WORKS CO., LTD.

株式会社日本化学工業所

Nikkacure YJ-04(T) (Bench Scale)



NIPPON CHEMICAL WORKS CO.,LTD.



Product data

Structure : Carbazole Type oxime ester

Appearance : Yellow powder

Melting point : 148-150°C (Crystallinity change)

Decomposition point : 240°C

λ_{max} : 370.5nm (10ppm in DMF)

Absorbance : $A_{\lambda_{max}} \doteq 0.340$

(10ppm in DMF)

$A_{405} \doteq 0.170$

$A_{365} \doteq 0.334$

Solubility

PMA*1 : < 0.1%

AN*2 : ca 5%

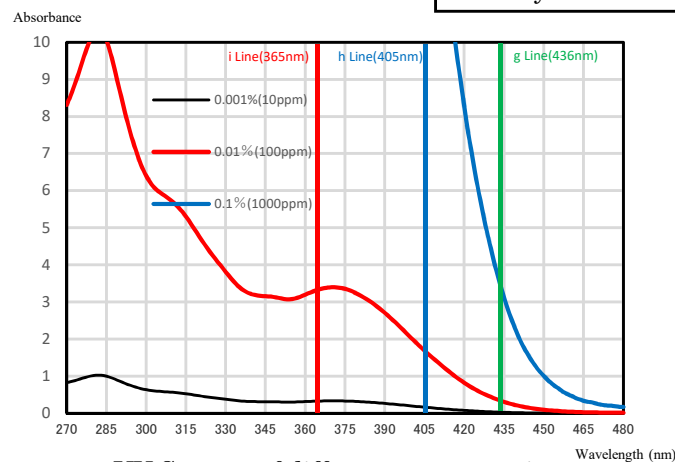
*1 : Propylene glycol monomethylether acetate

*2 : Cyclohexanone

Product profile

YJ-04(T) is a highly sensitive oxime ester photoinitiator with high absorption at long wavelength(365nm,405nm).

It has especially high absorption at 405 nm compared to general initiators, providing good curing with h- line.



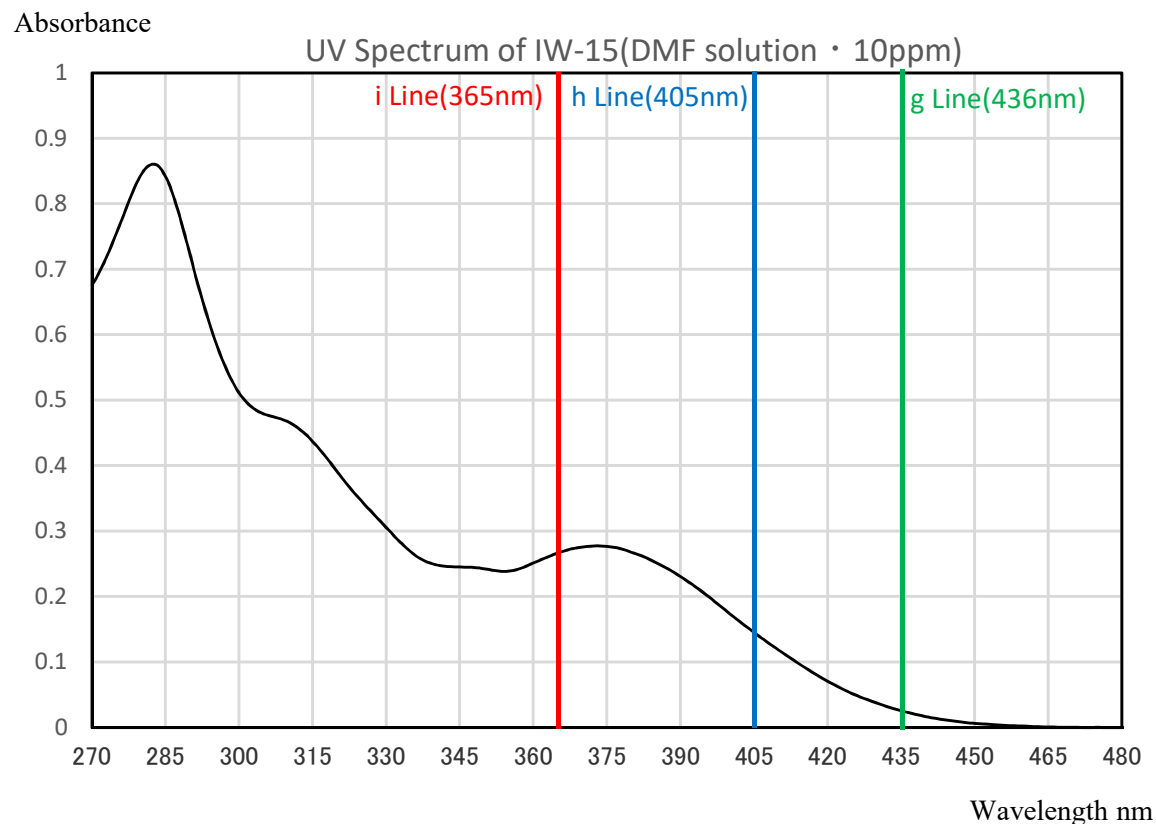
UV Spectra of different concentration

Registration of each countries

Japan MITI : Registered as a new chemical substances subject to limited(<1ton/y)]

Taiwan : Registered

Nikkacure IW-15 (Bench Scale) NIPPON CHEMICAL WORKS CO.,LTD.



Product data

Structure : Carbazole Type oxime ester

Appearance : Yellow powder

Melting point : 110-140°C

Decomposition point : 240-245°C

λ_{max} : 372.5nm (10ppm in DMF)

Absorbance : $A_{\lambda_{max}} \doteq 0.277$
(10ppm in DMF)

$A_{405} \doteq 0.147$

$A_{365} \doteq 0.266$

Solubility

PMA*1 : 50% <

AN*2 : No data

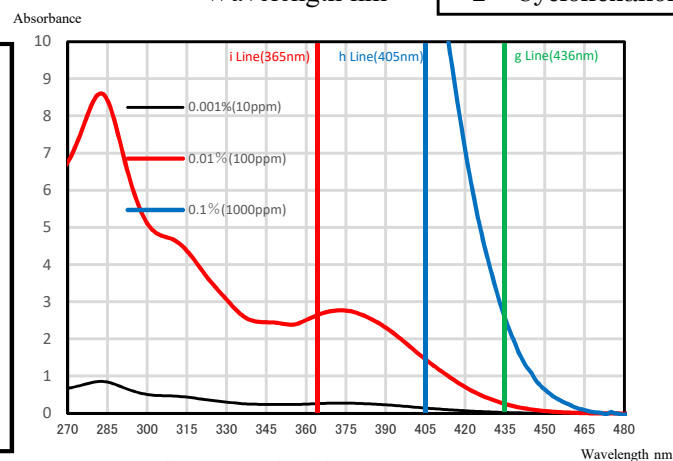
*1 : Propylene glycol monomethylether acetate

*2 : Cyclohexanone

Product profile

IW-15 is a highly sensitive oxime ester photoinitiator with high absorption at long wavelength(365nm,405nm).

It has especially high absorption at 405 nm compared to general initiators, providing good curing with h- line. Solubility is very good compared to YJ-04(T).

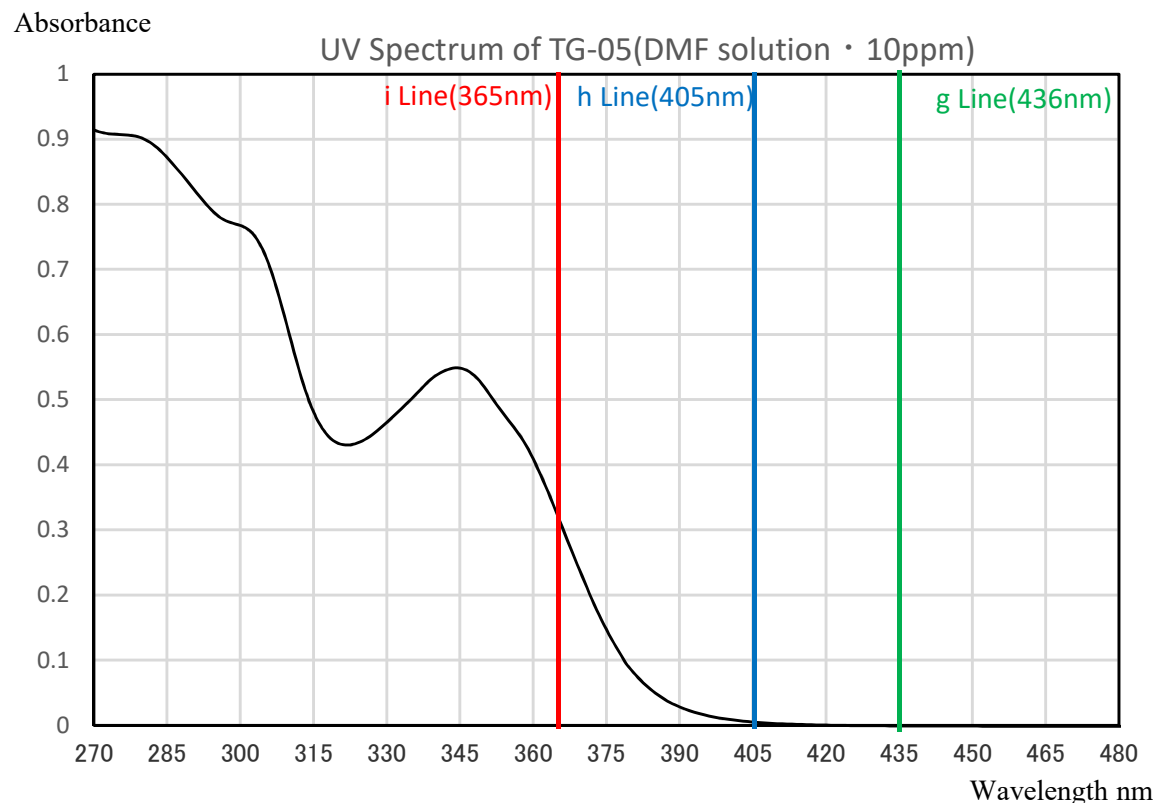


UV Spectra of different concentration

Registration of each countries

Japan MITI : Registered as a new chemical substances subject to limited(<1ton/y)]

Nikkacure TG-05 (Lab Scale)



Product data

Structure : Carbazole Type oxime ester

Appearance : Pale yellow powder

Melting point : 184-190°C

Decomposition point : 236.5°C

λ_{max} : 344.0nm (10ppm in DMF)

Absorbance : $A_{\lambda_{max}} \doteq 0.549$

(10ppm in DMF)

$A_{405} \doteq 0.005$

$A_{365} \doteq 0.322$

Solubility

PMA*1 : < 0.1%

AN*2 : No data

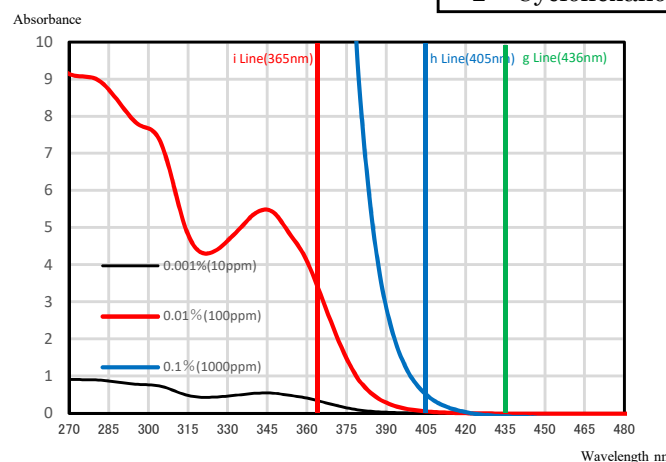
*1 : Propylene glycol monomethylether acetate

*2 : Cyclohexanone

Product profile

TG-05 is a highly sensitive oxime ester photoinitiator with high absorption at long wavelength(365nm).

Superior curing with i-line due to higher absorption at 365 nm compared to common initiators for i-line.

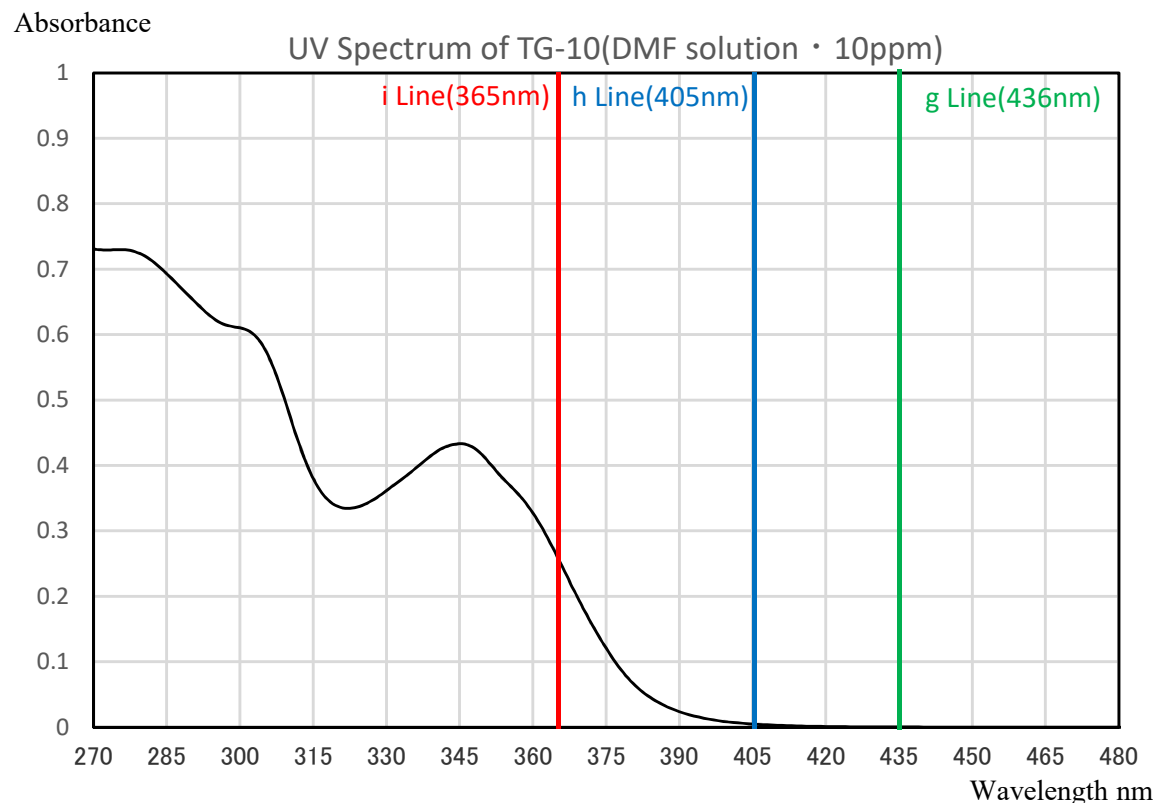


UV Spectra of different concentration

Registration of each countries

Japan MITI : Not Registered

Nikkacure TG-10 (Lab Scale)



Product data

Structure : Carbazole Type oxime ester

Appearance : Pale yellow powder

Melting point : 110-150°C

Decomposition point : 264.9°C

λ_{max} : 345.0nm (10ppm in DMF)

Absorbance : $A_{\lambda_{max}} \doteq 0.434$
(10ppm in DMF)

$A_{405} \doteq 0.005$

$A_{365} \doteq 0.260$

Solubility

PMA*1 : 30% <

AN*2 : No data

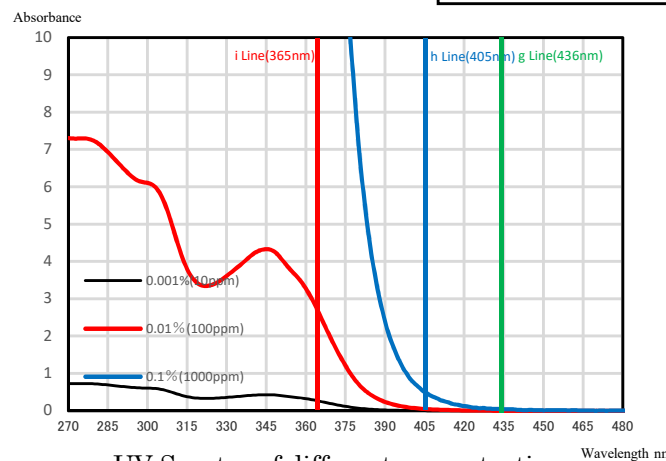
*1 : Propylene glycol monomethylether acetate

*2 : Cyclohexanone

Product profile

TG-10 is a highly sensitive oxime ester photoinitiator with high absorption at long wavelength(365nm).

Superior curing with i-line due to higher absorption at 365 nm compared to common initiators for i-line. Solubility is very good compared to TG-05.

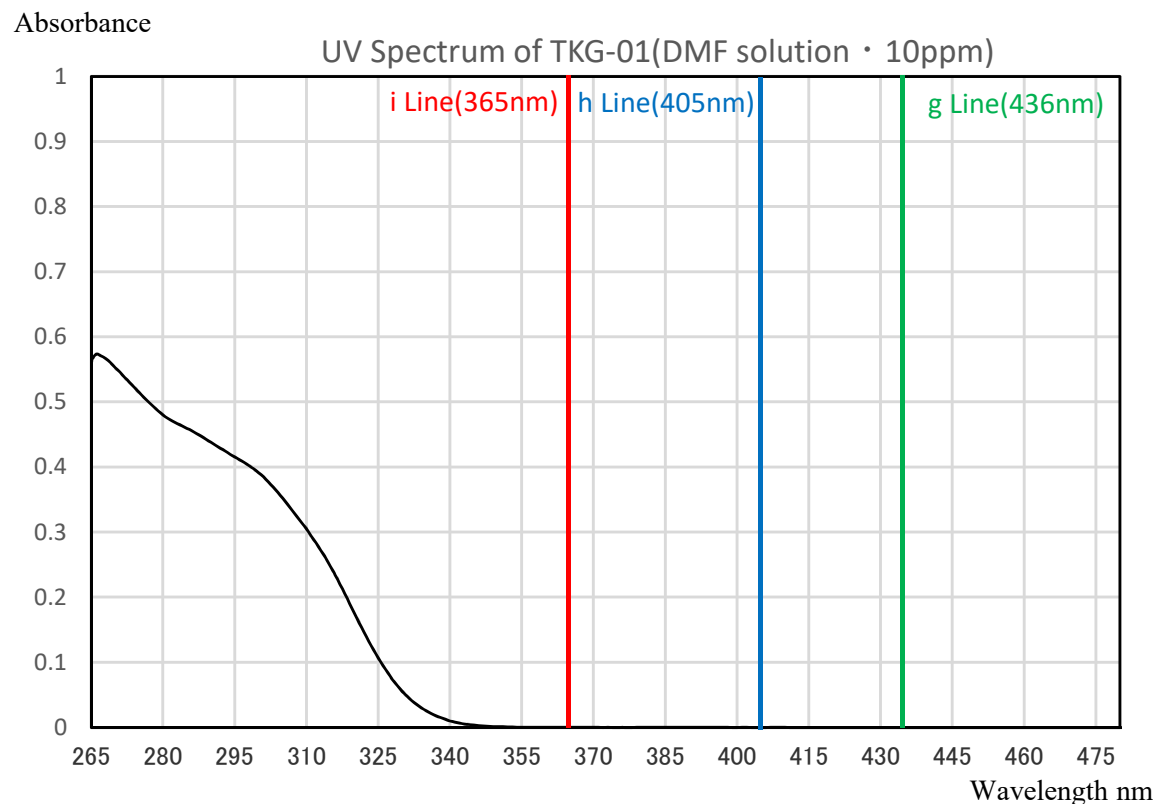


UV Spectra of different concentration

Registration of each countries

Japan MITI : Not Registered

Nikkacure TKG-01 (Lab Scale) NIPPON CHEMICAL WORKS CO.,LTD.



Product data

Structure : Phenyl Sulfide Type oxime ester

Appearance : White powder

Melting point : 100-110°C

Decomposition point : 251.2°C

λ_{\max} : 299.0nm (10ppm in DMF)

Absorbance : $A_{\lambda_{\max}} \doteq 0.397$

(10ppm in DMF)

$A_{405} \doteq 0$

$A_{365} \doteq 0$

Solubility

PMA*1 : 30% <

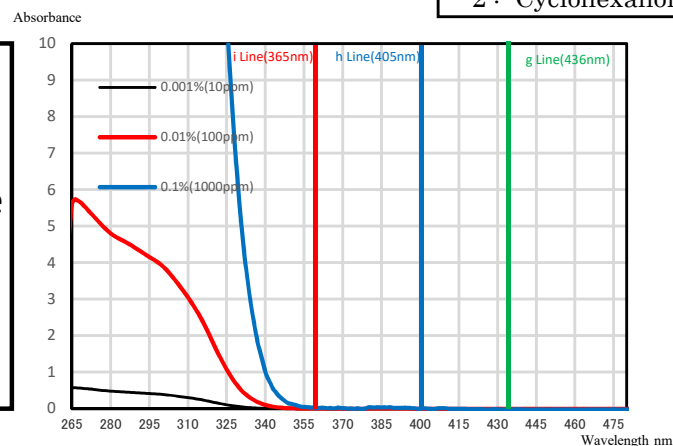
AN*2 : No data

*1 : Propylene glycol monomethylether acetate

*2 : Cyclohexanone

Product profile

TKG-01 is oxime ester photoinitiator. It's appearance is white, so suitable for color free applications.



UV Spectra of different concentration

Registration of each countries

Japan MITI : Not Registered

製造元：

株式会社日本化学工業所

本社 〒641-0007 和歌山市小雑賀1丁目1番11号
電話 和歌山(073)422-3111(代)

Maker：

NIPPON CHEMICAL WORKS CO., LTD.

Head Office：

1-11, Kozaika 1-chome, Wakayama City, 641-0007 Japan
Tel. Wakayama 81-73-422-3111

販売元：

日 化 株 式 会 社

本社 〒641-0007 和歌山市小雑賀1丁目1番11号
電話 和歌山(073)422-3111(代)
ファクス (073)424-7330

Selling Agency：

NIKKA CO., LTD.

Head Office：

1-11, Kozaika 1-chome, Wakayama City, 641-0007 Japan
Tel. Wakayama 81-73-422-3111
FAX. Wakayama 81-73-424-7330