'58&.)\$5%(1 +(//\$6 6 WYLVLRQ QU WHG 3ULQWHG RQ (1 5 HSODFHG UHYLVLRQ 35,0( 'DWHG

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\$FFRUGLQJ WR \$QQH[,, WR 5(\$&+ 5HJXODWLRQ (8

DQG WR \$QQH[

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3URGXFW LGHQWLILHU

& R G H

3URGXFW QDPH .5\$)7 0(7\$/ 35,0(5

8), & 6 7 ; 9 5 6 6

5HOHYDQW LGHQWLILHG XVHV RI WKH VXEVWDQFH RU PL[WXUH DQG XVHV DGYLVHG DJDL0

,QWHQGHG XVH 8QGHUFRDW IRU PHWDOOLF VXUIDFHV

'HWDLOV RI WKH VXSSOLHU RI WKH VDIHW\ GDWD VKHHW

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)XOO DGGUHVV 0(\*\$5,'26 \$9(18(

LVWULFW DQG &RXQWU\ \$63523<5\*26 \$77,.,

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H PDLO DGGUHVV RI WKH FRPSHWHQW SHUVRQ

UHVSRQVLEOH IRU WKH 6DIHW\S'100 DM DH W6 K#HGHUWK FNIDUEHQ JU

(PHUJHQF\ WHOHSKRQH QXPEHU

)RU XUJHQW LQTXLULHV UHIHU WR

#### 6(&7,21 +D]DUGV LGHQWLILFDWLRQ

&ODVVLILFDWLRQ RI WKH VXEVWDQFH RU PL[WXUH

7KH SURGXFW LV FODVVLILHG DV KDIDUGRXV SXUVXDQW WR WKH SURYLVLRQV VHW IRUWK DPHQGPHQWV DQG VXSSOHPHQWV 7KH SURGXFW WKXV UHTXLUHV D VDIHW\ GDWDVKHHW V

\$Q\ DGGLWLRQDO LQIRUPDWLRQ FRQFHUQLQJ WKH ULVNV IRU KHDOWK DQG RU WKH HQYLUI

+D]DUG FODVVLILFDWLRQ DQG LQGLFDWLRQ

)ODPPDEOH OLTXLG FDWHJRU\

\$VSLUDWLRQ KD|DUG FDWHJRU\

6SHFLILF WDUJHW RUJDQ WR[LFLW\ VLQJOH H[SROVDXUFHDXVH GURZVLQHVV RU GL]]LQHVV

FDWHJRU\

+D]DUGRXV WR WKH DTXDWLF HQYLURQPHQW FKUMRQLF WR DTXDWLF OLIH ZLWK ORQJ ODV WR[LFLW\ FDWHJRU\

/DEHO HOHPHQWV

+D]DUG ODEHOOLQJ SXUVXDQW WR (& 5HJXODWLRQ

&/3 DQG VXEVHTXHQW DPHQGP

)ODPPDEOH OLTXLG DQG

OD\ EH IDWDO LI VZDOO

+D]DUG SLFWRJUDPV



6LJQDO ZRUGV 'DQJHU

+D]DUG VWDWHPHQWV

)ODPPDEOH OLTXLG DQG YDSRXU

OD\ EH IDWDO LI VZDOORZHG DQG HQWHUV DLUZD\V

(3<



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#### 6(&7,21 +D]DUGV LGHQWLILFDWLRQ OD\ FDXVH GURZVLQHVV RU GL]]LQHVV +

7R[LF WR DTXDWLF OLIH ZLWK ORQJ ODVWLQJ HIIHFWV 5HSHDWHG H[SRVXUH PD\ FDXVH VNLQ GU\QHVV RU FUDFNLQJ (8 +

3UHFDXWLRQDU\ VWDWHPHQWV

.HHS DZD\ IURP KHDW KRW VXUIDFHV VSDUNV RSHQ IODPHV DQG RWKH 3 'R 127 LQGXFH YRPLWLQJ :HDU SURWHFWLYH JORYHV SURWHFWLYH FORWKLQJ H\H SURWHFWLRQ 3

,) 6:\$//2:(' LPPHGLDWHO\ FDOO D 32,621 &(17(5 RU D GRFWRU 3 3 Q FDVH RI ILUH XVH DOFRKRO UHVLVWDQW IRDP WR H[WLQJXLVK 3

**SYRLG UHOHDVH WR WKH HQYLURQPHQW** 3 .HHS RXW RI UHDFK RI FKLOGUHQ 3

\$YRLG EUHDWKLQJ GXVW IXPH JDV PLVW YDSRXUV VSUD\ 3

3 LVSRVH RI FRQWHQWV FRQWDLQHU WR DQ DSSURYHG ZDVWH GLV\$RVD QDWLRQDO LQWHUQDWLRQDO UHJXODWLRQV

& R Q W D L Q V +\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWL

2WKHU KDIDUGV

2Q WKH EDVLV RI DYDLODEOH GDWD WKH SURGXFW GRHV QRW FRQWDLQ DQ\ 3%7 RU \\ 43Y% 7KH SURGXFW GRHV QRW FRQWDLQ VXEVWDQFHV ZLWK HQGRFULQH GLVUXSWLQJ SURSHUWI

#### 6(&7,21 &RPSRVLWLRQ LQIRUPDWLRQ RQ LQJUHGLHQWV

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&RQWDLQV

, G H Q W L I L F D W L R Q ſ &RQF &ODVVLILFDWLRQ (& &/3

7,7\$1,80',2;,'( INDEX FC. 236-675-5 CAS 13463-67-7

REACH Reg. 01-2119489379-17-0000 01-2119489379-17-0197 01-2119489379-17

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+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWIFV

INDEX 649-327-00-6 )ODP /LT \$VS 7R[ 6727 6( + + QRWH DFFRUGLQJ WR \$QQH[ 9, WR WKH &/3 5HJXODWLRC

EC 919-857-5 CAS 64742-48-9 REACH Reg. 01-2119463258-33

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

)ODP /LT + + 6727 6( \$VS 7R[ INDEX 649-327-00-6 QRWH DFFRUGLQJ WR \$QQH[ 9, WR WKH &/3 5HJXODWLR(

EC 919-857-5 64742-48-9 CAS REACH Reg. 01-21119463258-33

=LQF 2[LGH

" [ INDFX 030-013-00-7 **\$TXDWLF \$FXWH \$TXDWLF &KURQLF** 

EC 215-222-5 CAS 1314-13-2

REACH Reg. 01-2119463881-32-0073 01-2119463881-32

:\OHQH RUWKR

INDEX 601-022-00-9 )ODP /LT \$FXWH 7R[ \$FXWH 7R[ 6 N &ODVVLILFDWLRQ QRWH DFFRUGLQJ WR \$QQH[ 9, WR WK EC 202-422-2 'HUPDO ! PJ NJ 67\$,QKDODWLRQ YDSRXUV

CAS 95-47-6 REACH Reg. 01-2119488216

7UL = LQF %LV 2UWKRSKRVSKDWH

INDFX 030-011-00-6 \$TXDWLF \$FXWH **\$TXDWLF &KURQLF** '[

EC 231-944-3 CAS 7779-90-0

REACH Reg. 01-2119485044-40-0000 01-2119485044-40-0001 (8+

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Q %XW\O \$FHWDWH

INDEX 607-025-00-1 " [ ) O D P / L T + 67276( + (8+

EC 204-658-1 CAS 123-86-4

REACH Reg. 01-2119485493-29-0007 01-2119485493-29-0005 01-2119485493-29-0003 01-2119485493-29

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6727 5( + (\H,UULW + 6NLQ,UULW + 6727 \$TXDWLF &KURQLF + &ODVVLILFDWLRQ QRWH DFFRU

&/3 5HJXODWLRQ &

EC 215-535-7 /' 'HUPDO PJ NJ /& ,QKDODWLRQ YDSRXUV

CAS 1330-20-7 REACH Reg. 01-2119488216-32

\$FHWRQH

INDEX 606-001-00-8 " [ )ODP /LT + (\H,UULW + 67276( + (8+

EC 200-662-2 CAS 67-64-1

REACH Reg. 01-2119471330-49-0003

4XDUW] &U\VWDOOLQH 6LOLFD

INDEX " [ 6XEVWDQFH ZLWK D FRPPXQLW\ ZRUNSODFH H[SRVXUH C

EC 238-878-4 CAS 14808-60-7

GL WHUW %XW\O S FUHVRO

INDEX " [ \$TXDWLF \$FXWH + 0 \$TXDWLF &KURQLF +

EC 204-881-4 CAS 128-37-0 REACH Reg. 01-2119565113-46

7KH IXOO ZRUGLQJ RI KD]DUG + SKUDVHV LV JLYHQ LQ VHFWLRQ RI WKH VKHHW

#### 6(&7,21 )LUVW DLG PHDVXUHV

'HVFULSWLRQ RI ILUVW DLG PHDVXUHV

(<(6 5HPRYH FRQWDFW OHQVHV LI SUHVHQW :DVK LPPHGLDWHO\ ZLWK SOHQW\ RI ZD SHUVLVWV VHHN PHGLFDO DGYLFH

6.,1 5HPRYH FRQWDPLQDWHG FORWKLQJ 5LQVH VNLQ ZLWK D VKRZHU LPPHGLDWHO\FORWKLQJ EHIRUH XVLQJ LW DJDLQ

,1+\$/\$7,21 5HPRYH WR RSHQ DLU ,I WKH VXEMHFW VWRSV EUHDWKLQJ DGPLQLVWHU DUWLI ,1\*(67,21 \*HW PHGLFDO DGYLFH DWWHQWLRQ LPPHGLDWHO\ 'R QRW LQGXFH YRPLWLG GRFWRU

ORVW LPSRUWDQW V\PSWRPV DQG HIIHFWV ERWK DFXWH DQG GHOD\HG

6SHFLILF LQIRUPDWLRQ RQ V\PSWRPV DQG HIIHFWV FDXVHG E\ WKH SURGXFW DUH XQNQRZQ

,QGLFDWLRQ RI DQ\ LPPHGLDWH PHGLFDO DWWHQWLRQ DQG VSHFLDO WUHDWPHQW QHHG

,QIRUPDWLRQ QRW DYDLODEOH

# 6(&7,21 )LUHILJKWLQJ PHDVXUHV

([WLQJXLVKLQJ PHGLD

68,7\$%/((;7,1\*8,6+,1\* (48,30(17

([WLQJXLVKLQJ VXEVWDQFHV DUH FDUERQ GLR[LGH IRDP FKHPLFDO SRZGHU )RU SURGXFVEH XVHG WR GLVSHUVH IODPPDEOH YDSRXUV DQG SURWHFW WKRVH WU\LQJ WR VWHP WKH O 8168,7\$%/( (;7,1\*8,6+,1\* (48,30(17

'R QRW XVH MHWV RI ZDWHU :DWHU LV QRW HIIHFWLYH IRU SXWWLQJ RXW ILUHV EXW 🛊 DQ E

6SHFLDO KD]DUGV DULVLQJ IURP WKH VXEVWDQFH RU PL[WXUH

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8VH MHWV RI ZDWHU WR FRRO WKH FRQWDLQHUV WR SUHYHQW SURGXFW GHFRPSRVLWLRQ D KHDOWK \$OZD\V ZHDU IXOO ILUH SUHYHQWLRQ JHDU &ROOHFW H[WLQJXLVKLQJ ZDWHU WR FRQWDPLQDWHG ZDWHU XVHG IRU H[WLQFWLRQ DQG WKH UHPDLQV RI WKH ILUH DFFRUGLQJ 63(&,\$/ 3527(&7,9( (48,30(17 )25 ),5( ),\*+7(56

1RUPDO ILUH ILJKWLQJ FORWKLQJ L'H ILUH NLW %6 (1 JORYHV %6 (1 DQG ERRWV VHOI FRQWDLQHG RSHQ FLUFXLW SRVLWLYH SUHVVXUH FRPSUHVVHG DLU EUHDWKLQJ DSSDU

# 6(&7,21 \$FFLGHQWDO UHOHDVH PHDVXUHV

3HUVRQDO SUHFDXWLRQV SURWHFWLYH HTXLSPHQW DQG HPHUJHQF\ SURFHGXUHV

%ORFN WKH OHDNDJH LI WKHUH LV QR KD]DUG

:HDU VXLWDEOH SURWHFWLYH HTXLSPHQW LQFOXGLQJ SHUVRQDO SURWHFWLYH HTXLSPHQV DQ\ FRQWDPLQDWLRQ RI VNLQ H\HV DQG SHUVRQDO FORWKLQJ 7KHVH LQGLFDWLRQV DSSO SURFHGXUHV

6HQG DZD\ LQGLYLGXDOV ZKR DUH QRW VXLWDEO\ HTXLSSHG 8VH H[SORVLRQ SURRI HTXLSF VSDUNV HWF IURP WKH OHDNDJH VLWH

(QYLURQPHQWDO SUHFDXWLRQV

7KH SURGXFW PXVW QRW SHQHWUDWH LQWR WKH VHZHU V\VWHP RU FRPH LQWR FRQWDFW Z

OHWKRGV DQG PDWHULDO IRU FRQWDLQPHQW DQG FOHDQLQJ XS

&ROOHFW WKH OHDNHG SURGXFW LQWR D VXLWDEOH FRQWDLQHU (YDOXDWH WKH FRP\$DWL UHPDLQGHU ZLWK LQHUW DEVRUEHQW PDWHULDO ODNH VXUH WKH OHDNDJH VLWH LV ZHOO DLUHG &RQWDPLQDWHG PDWHULDO VKRXOG EH GL

5HIHUHQFH WR RWKHU VHFWIRQV

\$Q\ LQIRUPDWLRQ RQ SHUVRQDO SURWHFWLRQ DQG GLVSRVDO LV JLYHQ LQ VHFWLRQV

#### 6(&7.21 +DQGOLQJ DQG VWRUDJH

3UHFDXWLRQV IRU VDIH KDQGOLQJ

.HHS DZD\ IURP KHDW VSDUNV DQG QDNHG IODPHV GR QRW VPRNH RU XVH PDWFKHV RU OL DFFXPXODWH DW JURXQG OHYHO DQG LI LJQLWHG FDWFK ILUH HYHQ DW D GLVWDQFH ZLW 'R QRW HDW GULQN RU VPRNH GXULQJ XVH 5HPRYH DQ\ FRQWDPLQDWHG FORWKHV DQG SH SHRSOH HDW \$YRLG OHDNDJH RI WKH SURGXFW LQWR WKH HQYLURQPHQW

&RQGLWLRQV IRU VDIH VWRUDJH LQFOXGLQJ DQ\ LQFRPSDWLELOLWLHV

6WRUH RQO\ LQ WKH RULJLQDO FRQWDLQHU 6WRUH LQ D FRRO DQG ZHOO YHQWLODWHG SO DQG RWKHU VRXUFHV RI LJQLWLRQ .HHS FRQWDLQHUV DZD\ IURP DQ\ LQFRPSDWLEOH PDWH

6SHFLILF HQG XVH V

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7\SH &RXQWU\ 7:\$ K 67(/ PLQ 5HPDUNV 2EVHUYDWLRQV PJP SSP PJP SSP  7/9 *5& HDOWK 'HULYHG QR HIIHFW OHYHO '1(/ '0(/ (IIHFWV RQ FRQVXPHUV (IIHFWV RQ ZRUNHUV 5RXWH RI H[SR\$VFXWH \$FXWH &KURQLF&KURQLF \$\$FXWMHO&KD&QL&KURQLF ORFDO V\VWHPLF ORFDO V\VWHPLF V\VWHPDRFDO V\VWHPLF  2UDO PJ NJ G ,QKDODWLRQ 91' 91' PJ P PJ P  6NLQ 91' 91'			+\GURFI	DUERQV	& &	Q I	DONDO	QHV LVRI	DONDQH	√ F\FO	LFV	D U F	۲PD۱
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7/9 *5&		
: ( / * % 5		
2(/ (8		
7/9 \$&*,+		
3UHGLFWHG QR HIIHFW FRQFHQWUDWLRQ 31(&		
1RUPDO YDOXH LQ IUHVK ZDWHU	PJ O	
1RUPDO YDOXH LQ PDULQH ZDWHU	PJ O	
1RUPDO YDOXH IRU IUHVK ZDWHU VHGLPHQW	PJ NJ	
1RUPDO YDOXH IRU PDULQH ZDWHU VHGLPHQW	PJ NJ	
+HDOWK 'HULYHG QR HIIHFW OHYHO '1(/ '0(/		
(IIHFWV RQ FRQVXPHUV	(IIHFWV RQ ZRUNHU)	<b>/</b>
5RXWH RIH[SR\$VFXXUMH \$FXWH &KURQLF&KURQLF	\$ \$ K XVM HO & K D Q Q L & K U R	QLF
ORFDO V\VWHPLF ORFDO V\VWHPLF	V\VWHPDRFDO V\VW	HPLF
2 U D O 9 1 '		
PJ NJ G		
,QKDODWLRQ 91'	91'	
PJP PJP PJP	PJ P P	JΡ
6 N L Q 91'	91'	
PJ NJ G	PJ	NJG



(1

#### ([SRVXUH FRQWUROV SHUVRQDO SURWHFWLRQ 6(&7,21

			Q	% X W \ O	\$FH\	W D W H		
7KUHVKROG /I	PLW 9DC	XH						
7\SH &	RXQWU\	7:\$ K		67(/	PLQ	5 H P D U N V	2 E V H U Y D W	LRQV
	РJ	P SS	P PJ	P S	SP			
	* 5					6.,1		
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3UHGLFWHG Q				Q 31	( &			
1RUPDO YDO	XH LQ II	JHVK ZD	WHU				PJ C	
1RUPDO YDO	OXH LQ P	DULQH 2	ZDWHU				PO (	
1RUPDO YDO	OXH IRU I	UHVK ZI	DWHU VHG	BLPHQV	V		PJ N	
1RUPDO YDO	OXH IRU I	PDULQH	ZDWHU VI	HGLPH	Q W		PJ N	
1RUPDO YDO					V UHC	HVDHC	PJ C	
1RUPDO YDO	OXH RI 67	3 PLFUI	RRUJDQLV	PV			PJ O	
+HDOWK 'HU				'1(/ '	0 (/			
	`		QVXPHUV				(IIHFWV RQ	
5RXWH RI H							\$ \$ \$ XVVM HO & \$ D (	
	ORFDO	V \ V W H I	PLF ORFD(	/ V / V	NHPL	F	V \ V W H P DR F	DO V\VWHPLF
2 U D O			91'					
				PJ N	1 J			
, Q K D O D W L R	Q			91'			91'	91'
				PJ F	)	PJ P		PJ P
6 N L Q			91'				9	
				PJ N	1 J			PJ NJ

		7,7\$1,80 ',2;,'(		
7 K U H V K R O	G /LPLW 9DOXH			
7\SH	&RXQWU\ 7:\$ K	67(/ PLQ	5 H P D U N V	2 E V H U Y D W L R Q V
	PJ P SSP	PJP SSP		
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0\$.	' ( 8		5 ( 6 3	+ L Q Z H L V
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7/9 \$&*,+			5 ( 6 3	

	+\GURFDUERQ	V & & O D	ONDOHV LVRD	ONDQHV F\FOL	FV DURP
781111148000 /10		v a a Q D	OND QIIV LVND	CNDQIIV TATOL	LI V DORF
7KUHVKROG /LP					
7\SH &RX	⟨QWU\ 7:\$ K	67(/	PLQ 5HPDUNV	2 E V H U Y D W L R (	VΩ
	PJ P SSP	PJP SS	Р		
7/9 *5&					
+HDOWK 'HULY	HG QR HIIHFW OH	YHO '1(/ '0	(/		
	(IIHFWV RQ FRQVX	PHUV		(IIHFWV RQ ZRI	JNHUV
5RXWH RI H[S	R\$VFXXUMH \$FXWH	& KURQLF& KUF	QLF \$1	F XVVM HORKDBQL	&KURQLF
	ORFDO V\VWHPLF	ORFDO V\VW	HPLF	V\VWHPDRFDO	V \ V W H P L F
2 U D O		91'			
		PJ N	J G		
, Q K D O D W L R Q		91'	91'		
		PJ P		PJ P	
6 N L Q		91'		91'	
		PJ N	J G		PJ NJ G

/HJHQG

& &(,/,1\* ,1+\$/ ,QKDODEOH )UDFWLRQ 5(63 91' KD]DUG LGHQWLILHG EXW QR '1(/ 31(& DYDLODEOH 5(63 5HVSLUDEOH)UDFWLRQ 7+25\$ 1(\$ QR H[SRVXUH H[SHFWHG +,\*+ KLJK KD]DUG O(' PHGLXP KD]DUG

([SRVXUH FRQWUROV

\$V WKH XVH RI DGHTXDWH WHFKQLFDO HTXLSPHQW PXVW DOZD\V WDNH SULRULW\ RYH\U SHL ZHOO DLUHG WKURXJK HIIHFWLYH ORFDO DVSLUDWLRQ

**KRAFT** 

'58&.)\$5%(1 +(//\$6

.5\$)70(7\$/35,0

6 WYLVLRQ QU WHG 3ULQWHG RQ (1 5 HSODFHG UHYLVLRQ 'DWHG

#### 6(&7,21 ([SRVXUH FRQWUROV SHUVRQDO SURWHFWLRQ

KHQ FKRRVLQJ SHUVRQDO SURWHFWLYH HTXLSPHQW DVN \RXU FKHPLFDO VXEVWDQFH VXSS 3HUVRQDO SURWHFWLYH HTXLSPHQW PXVW EH &( PDUNHG VKRZLQJ WKDW LW FRPSOLHV ZLV +\$1'3527(&7,21 3URWHFW KDQGV ZLWK FDWHJRU\ ,,, ZRUN JORYHV 7KH IROORZLQJ VKRXOG EH FRQVLGHUHG ZKHQ FKRRVLQJ ZRUN JORYH PDWHULDO VHH VWD

SHUPHDELOLW\ 7KH ZRUN JORYHV UHVLVWDQFH WR FKHPLFDO DJHQWV VKRXOG EH FKHFNHG EHIRUH X|VH D WKH GXUDWLRQ DQG W\SH RI XVH

6.,1 3527(&7,21

:HDU FDWHJRU\ , SURIHVVLRQDO ORQJ VOHHYHG RYHUDOOV DQG VDIHW\ IRRWZHDU VHH 5H. ZLWK VRDS DQG ZDWHU DIWHU UHPRYLQJ SURWHFWLYH FORWKLQJ

&RQVLGHU WKH DSSURSULDWHQHVV RI SURYLGLQJ DQWLVWDWLF FORWKLQJ LQ WKH FDVH RI (<( 3527(&7,21

HDU DLUWLJKW SURWHFWLYH JRJJOHV VHH VWDQGDUG (1,62

5(63,5\$725< 3527(&7,21

5HVSLUDWRU\ SURWHFWLRQ GHYLFHV PXVW EH XVHG LI WKH WHFKQLFDO PHDVXUHV DG|RSWI WKUHVKROG YDOXHV FRQVLGHUHG 8VH D PDVN ZLWK D W\SH \$ ILOWHU ZKRVH FODVV R FRQFHQWUDWLRQ VHH VWDQGDUG (1

I WKH VXEVWDQFH FRQVLGHUHG LV RGRXUOHVV RU LWV ROIDFWRU\ WKUHVKROG LV KLJKHU, HPHUJHQF\ ZHDU RSHQ FLUFXLW FRPSUHVVHG DLU EUHDWKLQJ DSSDUDWXV LQ FRPSOLDQF DSSDUDWXV LQ FRPSOLDQFH ZLWK VWDQGDUG (1 )RU D FRUUHFW FKRLFH RI UHVSLUDW (19,5210(17\$/ (;32685( &21752/6

7KH HPLVVLRQV JHQHUDWHG E\ PDQXIDFWXULQJ SURFHVVHV LQFOXGLQJ WKRVH JHQHŪDWH FRPSOLDQFH ZLWK HQYLURQPHQWDO VWDQGDUGV

3URGXFW UHVLGXHV PXVW QRW EH LQGLVFULPLQDWHO\ GLVSRVHG RI ZLWK ZDVWH ZDWHU R

#### 3K\VLFDO DQG FKHPLFDO SURSHUWLHV 6(&7,21

,QIRUPDWLRQ RQ EDVLF SK\VLFDO DQG FKHPLFDO SURSHUWLHV

,QIRUPDWLRQ 3 U R S H U W L H V 9DOXH \$SSHDUDQFH OLTXLG 7 H P S H U D W X U H f & 7 H P S H U D W X U H f & &RORXU 7KIWH 2 G R X U FKDUDFWHULVWLF QRW DYDLODEOH OHOWLQJ SRLQW | IUHH]LQJ SRLQW QLWLDO ERLOLQJ SRLQW QRW DYDLODEOH

)ODPPDELOLW\ QRW DYDLODEOH /RZHU H[SORVLYH OLPLW QRW DYDLODEOH 8SSHU H[SORVLYH OLPLW QRW DYDLODEOH f &

)ODVK SRLQW

\$XWR LJQLWLRQ WHPSHUDWXUH QRW DYDLODEOH 'HFRPSRVLWLRQ WHPSHUDWXUH QRW DYDLODEOH

QRW DYDLODEOH 5HDVRQ IRU PLVVLQ↓ GDV QRQ VROXEOH LQ

.LQHPDWLF YLVFRVLW\ PPOHWKRG &RQYHUWLQJ

9IVFRVIW\

7 H P S H U D W X U H f & '\QDPLF YLVFRVLW\ 0HWKRG \$670 ' . 8

7 H P S H U D W X U H QRW DYDLODEOH 6ROXELOLW\

QRW DYDLODEOH 3DUWLWLRQ FRHIILFLHQW Q RFWDQRO ZDWHU

9DSRXU SUHVVXUH QRW DYDLODEOH

'HQVLW\ DQG RU UHODWLYH GHQVLW\ JFP 0 H W K R G | , 6 2

7 H P S H U D W X U H f &

QRW DYDLODEOH 5HODWLYH YDSRXU GHQVLW\ 3DUWLFOH FKDUDFWHULVWLFV QRW DSSOLFDEOH

2WKHU LQIRUPDWLRQ

,QIRUPDWLRQ ZLWK UHJDUG WR SK\VLFDO KD]DUG FODVVHV

,QIRUPDWLRQ QRW DYDLODEOH

2WKHU VDIHW\ FKDUDFWHULVWLFV



0 ( 7 \$ / 3 5 , 0 ( 5<sup>3DJH Q</sup> UHYLVLRQ

(1 6 Sylvera Qu 3ULQWHG RQ 'DWHG

#### 3K\VLFDO DQG FKHPLFD@ SURSHUWLHV 6(&7,21

7RWDO VROLGV f) f &

#### 6WDELOLW\ DQG UHDFWLYLW\ 6(&7,21

5 H D F W L Y L W \

7KHUH DUH QR SDUWLFXODU ULVNV RI UHDFWLRQ ZLWK RWKHU VXEVWDQFHV LQ QRUPD FRO

\$FHWRQH

'HFRPSRVHV XQGHU WKH HIIHFW RI KHDW

Q %XW\O \$FHWDWH

6WDEOH LQ QRUPDO FRQGLWLRQV RI XVH DQG VWRUDJH

:LWK WKH DLU LW PD\ VORZO\ GHYHORS SHUR|LGHV WKDW H|SORGH ZLWK DQ LQFUHD∜H LC

&KHPLFDO VWDELOLW\

7KH SURGXFW LV VWDEOH LQ QRUPDO FRQGLWLRQV RI XVH DQG VWRUDJH

3RVVLELOLW\ RI KD]DUGRXV UHDFWLRQV

7KH YDSRXUV PD\ DOVR IRUP H[SORVLYH PL[WXUHV ZLWK WKH DLU

;\OHQH

6WDEOH LQ QRUPDO FRQGLWLRQV RI XVH DQG VWRUDJH 5HDFWV YLROHQWO\ ZLWK \\WUR( H[SORVLYH PL[WXUHV ZLWK DLU

\$FHWRQH

5LVN RI H[SORVLRQ RQ FRQWDFW ZLWK EURPLQH WULIOXRULGH IOXRULQH GLR[LGH k\GUF EXWDGLHQH QLWURPHWKDQH QLWURV\O SHUFKORUDWH OD\ UHDFW GDQJHURXVO\ ZLWK SF K\GUR|LGHV EURPLQH EURPRIRUP LVRSUHQH VRGLXP VXOSKXU GLR|LGH FKURPLXP WULR|L DFLG FKORURIRUP SHUR[\PRQRVXOSKXULF DFLG SKRVSKRU\O R[\FKORULGH FKURPRVX|OSKX DJHQWV 'HYHORSV IODPPDEOH JDV RQ FRQWDFW ZLWK QLWURV\O SHUFKORUDWH

;\OHQH RUWKR

DQG QLWULF DFLGV DQG SHUFKORUDWHV 0D\ IRUP H[SORVLYH PL[WXUHV ZLWK WKH DLU

Q %XW\O \$FHWDWH

OD\ UHDFW YLROHQWO\ ZLWK R[LGLVLQJ VXEVWDQFHV VWURQJ DFLGV DONDOLQH PHŴDOV &RQGLWLRQV WR DYRLG

\$YRLG RYHUKHDWLQJ \$YRLG EXQFKLQJ RI HOHFWURVWDWLF FKDUJHV \$YRLG DOO VRX↓FHV

\$FHWRQH

\$YRLG H[SRVXUH WR VRXUFHV RI KHDW QDNHG IODPHV

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

\$YRLG H[SRVXUH WR KHDW

.HHS DZD\ IURP R[LGLVLQJ DJHQWV GURFDUERQV & & Q DONDQHV LV +\GURFDUERQV Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

\$YRLG H[SRVXUH WR KHDW

.HHS DZD\ IURP R[LGLVLQJ DJHQWV

,QFRPSDWLEOH PDWHULDOV

\$FHWRQH

,QFRPSDWLEOH ZLWK DFLGV R[LGLVLQJ VXEVWDQFHV

O %XW\O \$FHWDWH

,QFRPSDWLEOH ZLWK R[LGLVLQJ VXEVWDQFHV VWURQJ DFLGV DONDOLQH PHWDOV +D]DUGRXV GHFRPSRVLWLRQ SURGXFWV

Q WKH HYHQW RI WKHUPDO GHFRPSRVLWLRQ RU ILUH JDVHV DQG YDSRXUV WKDW DUH SRW,

\$FHWRQH

OD \ GHYHORS NHWHQHV LUULWDQW VXEVWDQFHV

#### 7RILFRORJLFDO LQIRUPDWLRQ

,QIRUPDWLRQ RQ KD]DUG FODVVHV DV GHILQHG LQ 5HJXODWLRQ (& 1R

:\OHQH RUWKR

;</(1( 0,;785( 2) ,620(56 KDV D WR[LF HIIHFW RQ WKH &16 HQFHSKDORSDWKLHV</p> UHVSLUDWRU\ DSSDUDWXV

, UUI

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6 DYLVLRQ QU (1
WHG
3 ULQWHG RQ
3 DJH Q
5 HSODFHG UHYLVLRQ 'DWHG

# 6(&7,21 7R[LFRORJLFDO LQ!RUPDWLRQ

OHWDEROLVP WRILFRNLQHWLFV PHFKDQLVP RI DFWLRQ DQG RWKHU LQIRUPDWLRQ

Q %XW\O \$FHWDWH

7KH PDLQ URXWH RI HQWU\ LV WKH VNLQ ZKHUHDV WKH UHVSLUDWRU\ URXWH LV ÞHVV

<u>,QIRUPDWLRQ RQ OLNH</u>O\ URXWHV RI H[SRVXUH

;\OHQH

:25.(56 LQKDODWLRQ FRQWDFW ZLWK WKH VNLQ

3238/\$7,21 LQJHVWLRQ RI FRQWDPLQDWHG IRRG RU ZDWHU LQKDODWLRQ RI DPELHQW

Q %XW\O \$FHWDWH

:25.(56 LQKDODWLRQ FRQWDFW ZLWK WKH VNLQ

<u>'HOD\HG DQG LPPHGLDWH HIIHFWV DV ZHOO DV FKURQ</u>LF HIIHFWV IURP VKRUW DQG ORQJ WH

;\OHQH

7R[LF HIIHFW RQ WKH FHQWUDO QHUYRXV V\VWHP HQFHSKDORSDWK\ LUULWDWLQJ IRI

Q %XW\O \$FHWDWH

\$ERYH SSP FDXVHV LUULWDWLRQ RI WKH H\H QRVH DQG RURSKDU\Q[ PXFRXV PHPEUVHYHUH H\H LUULWDWLRQ FDQ EH QRWLFHG &OLQLFDO DQG ELRORJLFDO H[DPLQDWLRQ FHWDWH SURGXFHV JUHDWHU VNLQ DQG H\H LUULWDWLRQ ZLWK GLUHFW FRQWDFW 1R

#### <u>,QWHUDFW</u>LYH HIIHFWV

;\OHQH

QWDNH RI DOFRKRO LQWHUIHUHV ZLWK WKH PHWDEROLVP RI WKH VXEVWDQFH LQKLEL H[SRVXUH WR [\OHQH YDSRXUV DQG SSP FDXVHV D UHGXFWLRQ LQ WKH H[FUFFRQFHQWUDWLRQ RI [\OHQHV LQ WKH EORRG LQFUHDVHV DSSUR[ WLPHV \$W WKH YHIIHFWV RI WKH HWKDQRO 7KH PHWDEROLVP RI WKH [\OHQHV LV LQFUHDVHG E\ SKHQR \$VSLULQ DQG [\OHQHV PXWXDOO\ LQKLELW WKHLU FRQMXJDWLRQ ZLWK WKH JO\FLQH ZKLSSXULF DFLG 2WKHU LQGXVWULDO SURGXFWV FDQ LQWHUIHUH ZLWK WKH PHWDEROL

#### <u>\$&87(72;,&</u>,7<

\$7( ,QKDODWLRQ YDSRXUV RIWKH PL[WXUH! PJ O

\$7( 2UDO RI WKH PL[WXUH 1RW FODVVLILHG QR VLJQLILFDQW FRPSRQ

7( 'HUPDO RI WKH PL[WXUH ! PJ NJ

;\OHQH

/' 'HUPDO PJ NJ 5DEELW /' 2UDO PJ NJ 5DW

/& ,QKDODWLRQ YDSRXUV PJ O K 5DW

7UL = LQF %LV 2UWKRSKRVSKDWH

/' 2UDO ! PJ NJ 5DW :LVWDU

/& ,QKDODWLRQ PLVWV SRZGHUV PJ O 5DW

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

/' 'HUPDO ! PJ NJ 5DEELW

/' 2UDO ! PJ NJ 5DW

/& ,QKDODWLRQ YDSRXUV ! PJ O K 5DW

;\OHQH RUWKR

/' 'HUPDO ! PJ NJ 5DEELW /' 2UDO PJ NJ 5DW

/\* 2UDO PJ NJ 5DW /& ,QKDODWLRQ YDSRXUV SSP K 5DW

67\$ ,QKDODWLRQ YDSRXUV PJ O HVWLPDWH IURP WDEOH RI \$QQH[ , RI WKH & ILJXUH XVHG IRU FDOFXODWLRQ RI WKH DFXWH WR[LFLV

Q  $%XW\O$  \$FHWDWH

/' 'HUPDO ! PJ NJ 5DW
/' 2UDO PJ NJ 5DW
/& ,QKDODWLRQ YDSRXUV! PJ O 5DW

5\$)7 0(7\$/ 35,0(

6 PYLVLRQ QU (1
WHG
3ULQWHG RQ
3DJH Q
5+SODFHG UHYLVLRQ 'DWHG

#### 6(&7,21 7R[LFRORJLFDO LQ!RUPDWLRQ

7,7\$1,80',2;,'( /' 2UDO

PJ NJ 5DW

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

/' 'HUPDO ! PJ NJ 5DEELW

/' 2UDO ! PJ NJ 5DW /& ,QKDODWLRQ YDSRXUV ! PJ O K 5DW

<u>6.,1 &25526,21 ,55,</u>7\$7,21

5HSHDWHG HISRVXUH PD\ FDXVH VNLQ GU\QHVV RU FUDFNLQJ

6(5,286 (<( '\$0\$\*( ,55,7\$7,21

'RHV QRW PHHW WKH FODVVLILFDWLRQ FULWHULD IRU WKLV KD]DUG FODVV

<u>5(63,5\$725< 25 6.,1 6(16,7</u>,6\$7,21

'RHV QRW PHHW WKH FODVVLILFDWLRQ FULWHULD IRU WKLV KD]DUG FODVV

\*(50 &(// 087\$\*(1,&,7<

'RHV QRW PHHW WKH FODVVLILFDWLRQ FULWHULD IRU WKLV KD]DUG FODVV

<u>&\$5&,12\*(1,&,</u>7<

'RHV QRW PHHW WKH FODVVLILFDWLRQ FULWHULD IRU WKLV KD]DUG FODVV

&ODVVLILHG LQ \*URXS QRW FODVVLILDEOH DV D KXPDQ FDUFLQRJHQ E\ WKH ,QWHUQ7KH 86 (QYLURQPHQWDO 3URWHFWLRQ \$JHQF\ (3\$ DIILUPV WKDW WKH GDWD LV LQDGF

5(352'8&7,9(72;,&,7<

'RHV QRW PHHW WKH FODVVLILFDWLRQ FULWHULD IRU WKLV KD]DUG FODVV

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OD\ FDXVH GURZVLQHVV RU GL]]LQHVV

6727 5(3(\$7('(;32685(

RHV QRW PHHW WKH FODVVLILFDWLRQ FULWHULD IRU WKLV KD]DUG FODVV

\$63,5\$7,21 +\$=\$5'

7R[LF IRU DVSLUDWLRQ

,QIRUPDWLRQ RQ RWKHU KD]DUGV

%DVHG RQ WKH DYDLODEOH GDWD WKH SURGXFW GRHV QRW FRQWDLQ VXEVWDQFHV OLVWH GLVUXSWRUV ZLWK KXPDQ KHDOWK HIIHFWV XQGHU HYDOXDWLRQ

# 6(&7,21 (FRORJLFDO LQIRUPDWLRQ

7KLV SURGXFW LV GDQJHURXV IRU WKH HQYLURQPHQW DQG LV WR[LF IRU DTXDWLF RU∫DQL\ HQYLURQPHQW

7R[LFLW\

7UL = LQF %LV 2UWKRSKRVSKDWH

/& IRU )LVK

(& IRU &UXVWDFHD

PJ O K 3LPHSKDOHV SURPHODV PJ O K 'DSKQLD PDJQD

=LQF 2[LGH

/& IRU )LVK

(& IRU &UXVWDFHD

(& IRU \$OJDH \$TXDWLF 3ODQWV

&KURQLF 12(& IRU )LVK

PJ O K 2QFRUK\QFKXV P\NLVV PJ O K 'DSKQLD PDJQD

PJO K 3VHXGRNLUFKQHUHOOD √XEF

PJ O

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DRIVEN BY INNOVATION

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6(&7,21 (FRORJLFDO LQIR!UPDWLRQ

&KURQLF 12(& IRU \$OJDH \$TXDWLF 3ODQWV

PJ O

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

/& IRU )LVK ! PJO K )LVK \$TXDWLF,QYHUWHEUDWHV (& IRU &UXVWDFHD ! PJO K

(& IRU &UXVWDFHD ! PJO K
(& IRU \$OJDH \$TXDWLF 3ODQWV ! PJO K

&KURQLF 12(& IRU )LVK ! PJ O &KURQLF 12(& IRU &UXVWDFHD ! PJ O

;\OHQH RUWKR

/& IRU )LVK ! PJ O K 0LFURRUJDQLVPV

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

/& IRU )LVK ! PJO K )LVK \$TXDWLF,QYHUWHEUDWHV

(& IRU &UXVWDFHD ! PJ O K

(& IRU \$OJDH \$TXDWLF 3ODQWV ! PJ O K

3HUVLVWHQFH DQG GHJUDGDELOLW\

GL WHUW %XW\O S FUHVRO
'HJUDGDELOLW\ LQIRUPDWLRQ QRW DYDLODEOH

;\OHQH

6ROXELOLW\ LQ ZDWHU PJ O

5DSLGO\ GHJUDGDEOH

7UL = LQF %LV 2UWKRSKRVSKDWH

6ROXELOLW\ LQ ZDWHU PJ O

'HJUDGDELOLW\ LQIRUPDWLRQ QRW DYDLODEOH

=LQF 2[LGH

6ROXELOLW\ LQ ZDWHU PJ O

127 UDSLGO\ GHJUDGDEOH

\$FHWRQH

5DSLGO\ GHJUDGDEOH

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

5DSLGO\ GHJUDGDEOH

;\OHQH RUWKR

5DSLGO\ GHJUDGDEOH

Q %XW\O \$FHWDWH

6ROXELOLW\ LQ ZDWHU ! PJ O

5DSLGO\ GHJUDGDEOH

7,7\$1,80',2;,'(

6ROXELOLW\ LQ ZDWHU PJ O

'HJUDGDELOLW\ LQIRUPDWLRQ QRW DYDLODEOH

+\GURFDUERQV & & Q DONDQHV LVRDONDQHV F\FOLFV DURPDWLFV

5DSLGO\ GHJUDGDEOH

%LRDFFXPXODWLYH SRWHQWLDO

GL WHUW %XW\O S FUHVRO

3DUWLWLRQ FRHIILFLHQW Q RFWDQRO ZDWHU /RJ .RZ

% & )

;\OHQH

3DUWLWLRQ FRHIILFLHQW Q RFWDQRO ZDWHU

% & )

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6 PLVLRQ QU (1
WHG
3ULQWHG RQ
3DJH Q
5+SODFHG UHYLVLRQ 'DWHG

# 6(&7,21 (FRORJLFDO LQIR!UPDWLRQ

=LQF 2[LGH % &)

NELWBOL

\$FHWRQH 3DUWLWLRQ FRHIILFLHQW Q RFWDQRO ZDWHU %&)

Q %XW\O \$FHWDWH 3DUWLWLRQ FRHIILFLHQW Q RFWDQRO ZDWHU

ORELOLW\ LQ VRLO

,QIRUPDWLRQ QRW DYDLODEOH

5HVXOWV RI 3%7 DQG Y3Y% DVVHVVPHQW

2Q WKH EDVLV RI DYDLODEOH GDWD WKH SURGXFW GRHV QRW FRQWDLQ DQ\ 3%7 RU Y\$Y% L

(QGRFULQH GLVUXSWLQJ SURSHUWLHV

%DVHG RQ WKH DYDLODEOH GDWD WKH SURGXFW GRHV QRW FRQWDLQ VXEVWDQFHV OLVWH GLVUXSWRUV ZLWK HQYLURQPHQWDO HIIHFWV XQGHU HYDOXDWLRQ

2WKHU DGYHUVH HIIHFWV

,QIRUPDWLRQ QRW DYDLODEOH

#### 6(&7,21 'LVSRVDO FRQVLGHUDWLRQV

:DVWH WUHDWPHQW PHWKRGV

5HXVH ZKHQ SRVVLEOH 3URGXFW UHVLGXHV VKRXOG EH FRQVLGHUHG VSHFLDO KD]DUGRXVVKRXOG EH HYDOXDWHG DFFRUGLQJ WR DSSOLFDEOH UHJXODWLRQV

'LVSRVDO PXVW EH SHUIRUPHG WKURXJK DQ DXWKRULVHG ZDVWH PDQDJHPHQW ILUP LQ FR :DVWH WUDQVSRUWDWLRQ PD\ EH VXEMHFW WR \$'5 UHVWULFWLRQV

&217\$0,1\$7('3\$&.\$\*,1\*

&RQWDPLQDWHG SDFNDJLQJ PXVW EH UHFRYHUHG RU GLVSRVHG RI LQ FRPSOLDQFH ZLWK Q

# 6(&7,21 7UDQVSRUW LQIRUPDWLRQ

81 QXPEHU RU ,' QXPEHU

\$'5 5,',0'\*,\$7\$ 81

81 SURSHU VKLSSLQJ QDPH

\$'5 5,' 3\$,17 RU 3\$,17 5(/\$7(' 0\$7(5,\$/ ,0'\* 3\$,17 RU 3\$,17 5(/\$7(' 0\$7(5,\$/ ,\$7\$ 3\$,17 RU 3\$,17 5(/\$7(' 0\$7(5,\$/

7UDQVSRUW KD]DUG FODVV HV

\$'5 5,' &ODVV /DEHO

,0'\* &ODVV /DEHO

,\$7\$ &ODVV /DEHO

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3DFNLQJ JURXS

\$'5 5,',0'\*,\$7\$,,



0(7\$/35,0(

6 WYLVLRQ QU WHG 3ULQWHG RQ (1 5 THOODFHG UHYLVLRQ 'DWHG

#### 7UDQVSRUW LQIR!UPDWLRQ 6(&7,21

(QYLURQPHQWDO KD]DUGV

(QYLURQPHQWDOO\ +D]DUGRXV \$ ' 5

, 0 ' \* ODULQH 3ROOXWDQW

, \$7\$ 12

)RU \$LU WUDQVSRUW HQYLURQPHQWDOO\ KD]DUGRXV PDUN LV RQO\ PDQGDWRU\ IRU \$1

6SHFLDO SUHFDXWLRQV IRU XVHU

\$ ' 5 5.' .HPOHU /LPLWHG 4XDQWLWLHV 7XQQHO UHVWULF + . 1

6SHFLDO SURYLVLRQ

, 0 ' \* /LPLWHG 4XDQWLWLHV (06) (\_\_6 (

.\$7\$ & DUJR OD[LPXP TXDQWLW\ 3DFNDJLQJ LQVWUXFV

OD[LPXP TXDQWLW\ 3 D V V H Q J H U V 3DFNDJLQJ LQVWUXFV

6SHFLDO SURYLVLRQ\$

ODULWLPH WUDQVSRUW LQ EXON DFFRUGLQJ WR ,02 LQVWUXPHQWV

.QIRUPDWLRQ QRW UHOHYDQW

#### 5HJXODWRU\ LQIRUPDWLRQ 6(&7,21

6DIHW\ KHDOWK DQG HQYLURQPHQWDO UHJXODWLRQV OHJLVODWLRQ VSHFLILF IRU|WKH

6HYHVR &DWHJRU\ 'LUHFWLYH (8 3 F (

<u>5HVWULFWLRQV UHODWLQJ WR WKH SURGXFW RU FRQWDLQHG VX</u>EVWDQFHV SXUVXDQW WR

3URGXFW

3 R I O W

&RQWDLQHG VXEVWDQFH

3 R L Q W

5HJXODWLRQ (8 RQ WKH PDUNHWLQJ DQG XVH RI H[SORVLYHV SUHFXUVRUV

QRW DSSOLFDEOH

6XEVWDQFHV LQ &DQGLGDWH /LVW \$UW 5(\$&+

2Q WKH EDVLV RI DYDLODEOH GDWD WKH SURGXFW GRHV QRW FRQWDLQ DQ\ 69+& LQ SHUF

6XEVWDQFHV VXEMHFW WR DXWKRULVDWLRQ \$QQH[;,9 5(\$&+

1RQH

6XEVWDQFHV VXEMHFW WR H[SRUWDWLRQ UHSRUWLQJ SXUVXDQW WR 5HJXODWLRQ (8

1RQH

6XEVWDQFHV VXEMHFW WR WKH 5RWWHUGDP &RQYHQWLRQ

1RQH

<u>6XEVWDQFHV VXEMHFW WR W</u>KH 6WRFNKROP &RQYHQWLRQ

1RQH

+HDOWKFDUH FRQWUROV

RUNHUV HISRVHG WR WKLV FKHPLFDO DJHQW PXVW QRW XQGHUJR KHDOWK FKHFNV SURYLO UHODWHG WR WKH ZRUNHUV KHDOWK DQG VDIHW\ DUH PRGHVW DQG WKDW WKH (& GLU

&KHPLFDO VDIHW\ DVVHVVPHQW

\$ FKHPLFDO VDIHW\ DVVHVVPHQW KDV QRW EHHQ SHUIRUPHG IRU WKH SUHSDUDWLRQ IRU W

(3<



.5\$)7 0(7\$/ 35,0(

6 WYLVLRQ QU WHG 3ULQWHG RQ (1 5 HSODFHG UHYLVLRQ 'DWHG

## 6(&7,21

```
2WKHU LQIRUPDWLRQ
7H[W RI KD]DUG + LQGLFDWLRQV PHQWLRQHG LQ VHFWLRQ RI WKH VKHHW
               )ODPPDEOH OLTXLG FDWHJRU\
 )ODP /LT
 )ODP /LT
                )ODPPDEOH OLTXLG FDWHJRU\
 $FXWH 7R[
                $FXWH WR[LFLW\ FDWHJRU\
 $VS 7R[
                $VSLUDWLRQ KD]DUG FDWHJRU\
 6727 5(
                6SHFLILF WDUJHW RUJDQ WR[LFLW\ UHSHDWHG H[SRVXUH FDWHJR]U\
                (\H LUULWDWLRQ FDWHJRU\
 (\H ,UULW
 6NLQ ,UULW
                6NLQ LUULWDWLRQ FDWHJRU\
 6727 6(
                6SHFLILF WDUJHW RUJDQ WR[LFLW\ VLQJOH H[SRVXUH FDWHJRU\
 $TXDWLF $FXWH +D]DUGRXV WR WKH DTXDWLF HQYLURQPHQW DFXWH WR[LFLW∖ FD₩HJR
 $TXDWLF &KURQLFD]DUGRXV WR WKH DTXDWLF HQYLURQPHQW FKURQLF WR[LFLW\ F|DWH.
 $TXDWLF &KURQLFD]DUGRXV WR WKH DTXDWLF HQYLURQPHQW FKURQLF WR[LFLW\ F|DWH.
 $TXDWLF &KURQLFD]DUGRXV WR WKH DTXDWLF HQYLURQPHQW FKURQLF WR[LFLW\ FDWH,
                +LJKO\ IODPPDEOH OLTXLG DQG YDSRXU
                )ODPPDEOH OLTXLG DQG YDSRXU
                +DUPIXO LQ FRQWDFW ZLWK VNLQ
                +DUPIXO LI LQKDOHG
                OD\ EH IDWDO LI VZDOORZHG DQG HQWHUV DLUZD\V
                OD/ FDXVH GDPDJH WR RUJDQV WKURXJK SURORQJHG RU UHSHDWHG H[SF
                &DXVHV VHULRXV H\H LUULWDWLRQ
                &DXVHV VNLQ LUULWDWLRQ
                OD\ FDXVH UHVSLUDWRU\ LUULWDWLRQ
                OD\ FDXVH GURZVLQHVV RU GL]]LQHVV
                9HU\ WR[LF WR DTXDWLF OLIH
                9HU\ WRILF WR DTXDWLF OLIH ZLWK ORQJ ODVWLQJ HIIHFWV
                7R[LF WR DTXDWLF OLIH ZLWK ORQJ ODVWLQJ HIIHFWV
               +DUPIXO WR DTXDWLF OLIH ZLWK ORQJ ODVWLQJ HIIHFWV
 (8 +
                5HSHDWHG H[SRVXUH PD\ FDXVH VNLQ GU\QHVV RU FUDFNLQJ
/(*(1'
 $'5 (XURSHDQ $JUHHPHQW FRQFHUQLQJ WKH FDUULDJH RI 'DQJHURXV JRRGV E\ 5RDG
 $7( $FXWH 7R[LFLW\ (VWLPDWH
 &$6 &KHPLFDO $EVWUDFW 6HUYLFH 1XPEHU
     (IIHFWLYH FRQFHQWUDWLRQ UHTXLUHG WR LQGXFH D
 & (
                                                      HIIHFW
 &( ,GHQWLILHU LQ (6,6 (XURSHDQ DUFKLYH RI H[LVWLQJ VXEVWDQFHV
 &/3 5HJXODWLRQ (&
 '1(/ 'HULYHG 1R (IIHFW /HYHO
 (P6 (PHUJHQF\ 6FKHGXOH
 *+6 *OREDOO\ +DUPRQL]HG 6\VWHP RI FODVVLILFDWLRQ DQG ODEHOLQJ RI FKHPLFDOlambda
 ,$7$'*5 ,QWHUQDWLRQDO $LU 7UDQVSRUW $VVRFLDWLRQ 'DQJHURXV *RRGV 5HJXODW↓RQ
 , &
     ,PPRELOL]DWLRQ &RQFHQWUDWLRQ
 , 0 ' *
     ,QWHUQDWLRQDO 0DULWLPH &RGH IRU GDQJHURXV JRRGV
    ,QWHUQDWLRQDO 0DULWLPH 2UJDQL]DWLRQ
 , 02
 ,1'(; ,GHQWLILHU LQ $QQH[ 9, RI &/3
     /HWKDO &RQFHQWUDWLRQ
 / &
    /HWKDO GRVH
 2(/ 2FFXSDWLRQDO ([SRVXUH /HYHO
 3%7 3HUVLVWHQW ELRDFFXPXODWLYH DQG WR[LF
 3(& 3UHGLFWHG HQYLURQPHQWDO &RQFHQWUDWLRQ
 3(/ 3UHGLFWHG H[SRVXUH OHYHO
 307 3HUVLVWHQW PRELOH DQG WR[LF
 31(& 3UHGLFWHG QR HIIHFW FRQFHQWUDWLRQ
 5(\$\&+5HJXODWLRQ(\&
 5,' 5HJXODWLRQ FRQFHUQLQJ WKH LQWHUQDWLRQDO WUDQVSRUW RI GDQJHURXV JRR|GV E
 7/9 7KUHVKROG /LPLW 9DOXH
 7/9 &(,/,1* &RQFHQWUDWLRQ WKDW VKRXOG QRW EH H|FHHGHG GXULQJ DQ\ WLPH RI RFFXS
 7:$ 7LPH ZHLJKWHG DYHUDJH H[SRVXUH OLPLW
 7:$ 67(/ 6KRUW WHUP H[SRVXUH OLPLW
 92& 9RODWLOH RUJDQLF &RPSRXQGV
 Y3Y% 9HU\ SHUVLVWHQW DQG YHU\ ELRDFFXPXODWLYH
 Y3YO 9HU\ SHUVLVWHQW DQG YHU\ PRELOH
 :*. :DWHU KD]DUG FODVVHV *HUPDQ
```

\*(1(5\$/ %,%/,2\*5\$3+<



.5\$)7 0(7\$/ 35,0(

6 WYLVLRQ QU WHG 3ULQWHG RQ (1 5 HSODFHG UHYLVLRQ 'DWHG

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2WKHU LQIRUPDWLRQ
6(&7,21
   5HJXODWLRQ (&
                          5($&+ RI WKH (XURSHDQ 3DUOLDPHQW
                          &/3 RI WKH (XURSHDQ 3DUOLDPHQW
   5HJXODWLRQ (&
                         ,, $QQH[ RI 5($&+ 5HJXODWLRQ
   5HJXODWLRQ (8
                          , $WS &/3 RI WKH (XURSHDQ 3DUOLDPHQW
   5 H J X O D W L R Q
               (&
   5 H J X O D W L R Q
                         ,, $WS &/3 RI WKH (XURSHDQ 3DUOLDPHQW
                (8
                         ,,, $WS &/3 RI WKH (XURSHDQ 3DUOLDPHQW
   5HJXODWI RQ
               (8
                         ,9 $WS &/3 RIWKH (XURSHDQ 3DUOLDPHQW
   5HJXODWLRQ (8
   5HJXODWLRQ (8
                         9 $WS &/3 RI WKH (XURSHDQ 3DUOLDPHQW
   5HJXODWLRQ (8
                         9, $WS &/3 RIWKH (XURSHDQ 3DUOLDPHQW
    5 H J X O D W L R Q
                (8
                           9,, $WS &/3 RI WKH (XURSHDQ 3DUOLDPHQW
                          9,,, $WS &/3 RI WKH (XURSHDQ 3DUOLDPHQW
    5HJXODWIRO (8
                          ,; $WS &/3
    5HJXODWLRQ (8
    5HJXODWLRQ (8
                          ; $WS &/3
    5 H J X O D W L R Q
                (8
                          ;, $WS &/3
                          ;,, $WS &/3
    5HJXODWLRQ (8
    'HOHJDWHG 5HJXODWLRQ 8(
                                      ;,,, $WS &/3
    5HJXODWLRQ (8
                                     ;,9 $WS
    'HOHJDWHG 5HJXODWLRQ 8(
                                            &/3
    'HOHJDWHG 5HJXODWLRQ 8(
                                      ;9 $WS
                                             &/3
    'HOHJDWHG 5HJXODWLRQ 8(
                                             &/3
                                     ;9, $WS
                                     ;9,, $WS &/3
   'HOHJDWHG 5HJXODWLRQ 8(
                                     ;9,,, $WS &/3
   'HOHJDWHG 5HJXODWLRQ 8(
    'HOHJDWHG 5HJXODWLRQ 8(
  7KH OHUFN ,QGH[
                     WK (GLWLRQ
  +DQGOLQJ &KHPLFDO 6DIHW\
       )LFKH 7R[LFRORJLTXH WR[LFRORJLFDO VKHHW
          ,QGXVWULDO +\JLHQH DQG 7R[LFRORJ\
  3 D W W \
          'DQJHURXV SURSHUWLHV RI ,QGXVWULDO 0DWHULDOV
  1, 6D[
                                                                 (GLWLRQ
  ,)$ *(67,6 ZHEVLWH
  (&+$ ZHEVLWH
```

'DWDEDVH RI 6'6 PRGHOV IRU FKHPLFDOV 0LQLVWU\ RI +HDOWK DQG ,66 ,VWLWXWR |6XSH

## 1RWH IRU XVHUV

7KH LQIRUPDWLRQ FRQWDLQHG LQ WKH SUHVHQW VKHHW DUH EDVHG RQ RXU RZQ NQRZOHG. VXLWDELOLW\ DQG WKRURXJKQHVV RI SURYLGHG LQIRUPDWLRQ DFFRUGLQJ WR HDFK V\$HFLI 7KLV GRFXPHQW PXVW QRW EH UHJDUGHG DV D JXDUDQWHH RQ DQ\ VSHFLILF SURGXFW SUR: 7KH XVH RI WKLV SURGXFW LV QRW VXEMHFW WR RXU GLUHFW FRQWURO WKHUHIRUH XVHU DQG VDIHW\ ODZV DQG UHJXODWLRQV 7KH SURGXFHU LV UHOLHYHG IURP DQ\ OLDELOLW\ DL 3URYLGH DSSRLQWHG VWDII ZLWK DGHTXDWH WUDLQLQJ RQ KRZ WR XVH FKHPLFDO SURGXFV

#### &\$/&8/\$7,21 0(7+2'6)25 &/\$66,),&\$7,21

&KHPLFDO DQG SK\VLFDO KD]DUGV 3URGXFW FODVVLILFDWLRQ GHULYHV IURP FULWHULD HV HYDOXDWLRQ RI FKHPLFDO SK\VLFDO SURSHUWLHV DUH UHSRUWHG LQ VHFWLRQ +HDOWK KD]DUGV 3URGXFW FODVVLILFDWLRQ LV EDVHG RQ FDOFXODWLRQ PHWKRGV DV SH

(QYLURQPHQWDO KD)DUGV 3URGXFW FODVVLILFDWLRQ LV EDVHG RQ FDOFXODWLRQ PHWKRO 6 H F W L R Q

&KDQJHV WR SUHYLRXV UHYLHZ 7KH IROORZLQJ VHFWLRQV ZHUH PRGLILHG