

!" #&/
4;O <548G=>3> 70AB>AC20==O ?@:5?0@0BC

0=3@>; 20000
(PANGROL: 20000)

!;:04 ;V:0@AL:>3> 70A>1C:

4/VNG0 @5G>28=0: 1 B01;5B:0 :8H:>2>@>7G8==0 3> ?0=:@:50B8=C 200-266,67 <3 7
4>?>28=8: :0B>78 <=>3V4@0B, F5;N:>70 :@:8AB0;VG=0, :@:5<=VN 4V>:A84 <?>:W4=89 1572>4=89, :@>A?>2V4=>, <03=VN AB50@0B, 3V?@><5>;>70, <5B0:@:8:0B=89 A>?>;V<5@ (B8?), B@85B8;F8B@0B, B8B0=C
4V>:A84 (171), B0:L, A<8>5B8>=>?>;V5B8;5=3;V>;L, ?>;VA>=>@10B, =0B@VN :0@<5>;70, 20=V:L=89 0@><0B870B>@, 15@30<>B>289 0@><0B870B>@.

V:0@AL:0 D>@<0. "01;5B:8 8H:>2>@>7G8==V.

;53:0 42>>?>;V B01;5B:8 :8H:>2>@>7G8==V 2V4 1V;>3> 4> 7;53:0 AV@>3> :>;L>@<C 7 3;045=L:>N ?>25@E=5N V ?@8F=8< 70?0E>

0720 V 465==O 28@>1=8:0.

8@>I=8FB2> «in bulk»:
-%.
"5D5@ 53 83, 12347 5@;V=, V<5GG8=0.
BERLIN-CHEMIE AG.
Tempelhofer Weg 83, 12347 Berlin, Germany.
0:C20==O B0 28?CA: A5@V9:
-%.

;V=V:5@ 53 125, 12489 5@;V=, V<5GG8=0.
BERLIN-CHEMIE AG.
Glienicke Weg 125, 12489 Berlin, Germany
8@>I=8FB2> «in bulk»:
5=0@V=V - \$=>%5945= <1%.
59?FV35@ HB@0A5 7-13, 01097 @5745=, V<5GG8=0.
Manarini - Von Heyden GmbH
Leipziger Strasse 7-13, 01097 Dresden, Germany.

S0@<0>B5@0?52B8G=0 3@C?0.

>;VD5@<5=B=V ?@:5?0@0B8. >4 " 0902.

@:5?0@0B 0=3@>® 20000 ?>@>H>: ? ?V4H;C=>28E 70;>7 A28=59, O:89, :@<V<5:A:@5B>@=8E ?0=:@:50B8G=8E D5@<5=BV2 (;V?078, 0:LD0-0
5@5B@02:N20;L=0 0:B82=VABL 287=0G0TBLAO 0:B82=VABN D5@<5=BV2, 0 B0;>6 ;V:0@AL:>N D>@<N ?0=:@:50B8=C, 8@VH0;L=8< D0:B>@<T D5@<5=B0B82=0 0:B82=VABL ;V?078, 0 B0;>6 29 GOA O: 0
;VB8G=0 0:B82=VABL <0T 7=0G5==O BV;L:8 ?@8 B5@0?VW 2VAF84>7C, >A;V;L:8 =02VBL ?@8 7=0G=>@=>W 0:B82=>ABV ?V4H;C=>2>W 70;>78 715@V30TBLAO 4>AB0B=O 0:B82=VABL 0
>@>H>: ? ?V4H;C=>28E 70;>7 5 2A<=>.BCTBLAO C H;C=>2>:8H:>2>48BLAO 7 D5;0;VO<8, 7451V;LH>3> @>715?;5=89 01> 45=0BC@>20=89 H;C=>28<A>0<8 01> 10:B5@VO<8.

>:070==O 4;0 70AB>AC20==O.

0E2>@N20==O, O;V AC?@>2>46CNBLAO ?>@CH5==O<8 ?@>F5AC ?5@5B@02;N20==O W6V C 7207:C 7 =54>AB0B=V< 284V;5==O< B@02=8E D5@<5=BV2 ?V4H;C=>2>N 70;>7>N, B0:8E O: E@>=VG=89
?0=:@:50B8B, 2VAF84>7.

!B0=8 ?VA;O >4>=>G0A=>W @:575;FVW H;C=0 B0 B>=>3> :8H5G=8:C, DC=;FV=>0;L=5 ?@8A:>5==O ?@>E=465==O W6V G5@57 :8H5G=8;, @>7;048 :8H5G=8:C, >4>=>G0A=5 26820==O 206:>?5@5B@02;N20=>W
@>A:8=>W, 68@=>W B0 =5728G=>W W6V.
4CBBO :8H5G=8:C B0 ?V43>B>2:0 4> @5=B35=>;>3VG=8E 01>C;LB@072C:>28E 4V03=>AB8G=8E 4>A;V465=L.

@>B8?>:070==O.

V42815=0 GCB;82VABL 4 A28=OG>3><OAO (0;5@3VO =0 A28=8=C) 01> 4> V=H8E 4>?>28= ?@:5?0@0BC. 1BC@0FV9=0 =5?@>EV4=VABL :8H5G=8:0. >AB@89 ?0=:@:50B8B 01> E@>=VG=89 ?0=:@:50B8B C D07V
703>AB@5==O (?@>B5 5?V7>48G=5 ?@87=0G5==O ?@89=OB=5 C D07V 7030A0NG>3> 703>AB@5==O ?@8 @>7H8@5==V 4V7B8, O:1> T >7=0:8 ?>@CH5==O ?0=:@:50B8G=>W DC=;FVW, 1> 715@V30TBLAO).

0;56=V 70E>48 157?5:8 ?@8 70AB>AC20==V.

@:5?0@0B 0=3@>® 20000 ;® 20000 A;V4 :>2B0B8 FV;8
0=3@>® 20000 =5 A;V4 ?@89<0B8 E2><8 <7 @V4:VA=>N 2@>465=>N =5?5@5=>A878, 45DVFB8B< :0:B078 01> A8=4@><< <0;L01A>@1FVW 3;N:>78 V 30:0B>78.

E2>@8E =0 2VAF84>7 G0AB> A?>AB5@V30NBLAO CA;:04=5==O C D>@2>W =5?@>EV4=>ABV. @8 =002=>ABV A8=0304CNBL :8H:>2C=5?@>EV4=VABL, A;V4 2@0E>2C20B8 V<>2V@=VABL ?>O28 :8H:>28E
AB@8;BC@.

A>1:82V 70AB5@565==O.

0AB>AC20==O C ?5@V>4 203VB=>ABV 01> 3>4C20==O 3@C44N.

?5@V>4 203VB=>ABV 01> 3>4C20==O 3@C44N ?@:5?0@0B ?@:89<0B8 70 ?@87=0G5==O<;V:0@O, O:1> >GV:C20=0 :>@8ABL 4;O<0B5@V ?5@52060T ?>B5=V9=89 @878: 4;O ?>40/48B8=8.

40B=VABL 2?;820B8 =0 H284;VABL @50;FVW ?@8 :5@C20=V 02B>B@0=A?>@B< 01> @>I>BV 7 V=H8<8 <5E0=V7<0<8.

5 2?;820T.

VB8.

5 70AB>A>2C20B8 4VBO< 2V;< 4> 3 @>:V2.

! ?>AV1 70AB>AC20==O B0 4>78.

"01;5B:8 ?@89<0B8 ?V4 G0A W48, >2B0NG8 FV;8<8 B0 70?820NG8 7=0G=>N ;V:L;VABN @V48=8, =0?@8;04, A;O=>N 2>48.

>70 ?@:5?0@0BC0=3@>® 20000 70;568BL 2V4 45DVFB8C ?0=:@:50B8G=8E D5@<5=BV2 C 420=04F0B8?0;V9 ;8HFV V 2AB0=>2;NTBLAO V=482V4C0;L>; /:1> =5<0T V=H8E @5:><5=40FV9 B0 C 28?04:0E 26820==O
206:>?5@5B@02;N20=>W @>A:8=>=>W W6V, 68@=>W 01> =5728G=>W W6V ?@89<0B8 ?> 1-2 B01;5B:8. V=H8E 2815707=0G5=8E 28?04:0E ?@8 28=8=5==V @>7;04V2 B@02;5==O @5:><5=4>20=0 4>70 AB0=>28BL 2-
4 B01;5B:8. @8 =5=1EV4=>ABV 4>7C ?@:5?0@0BC<6=0 ?V42818B8. 1V;LH5=O 4>78 7<5B=H5=O A8@N20=O, =0?@8;04, AB50B>@5W 01> 1>;N C 682>BV, ?>B@V1=> ?@>2>48B8 BV;L:8 ?V4 :>=B@>;<
;V:0@O. 1>1>20 4>70 4;O 4>@>A;8E =5 ?>28=0 ?5@5281C20B8 15000-20000 .\$. ;V?078 =0 1 :3 <0A8 BV;0. "@820;VABL ;V:C20=0 70;568BL 2V4 ?5@51V3C 70E2>@N20=O B0 287=0G0TBLAO ;V:0@5 2
V=482V4C0;L=>@O4:C.
8B0=O ?@> 4>7C20=O ?@:5?0@0BC V B@820;VABL ;V:C20=O 4;O 4VB59 28@VHCT ;V:0@. VB@ 2V;< 2V4 3 4> 12 @>:V2 0=3@>® 20000 ?@87=0G0TBLAO C 4>1>2V9 4>7V, 1> =5>1EV4=0 4;O =>@>0;V70FVW
28?@>6=5==O, 0;5 =5 1V;LH5 1500. \$. ;V?078 =0 1 :3 <0A8 BV;0 48B8=8. VBO< 2V4 12 4> 18 @>:V2 4>1>20 4>70 =5 ?>28=0 ?5@5281C20B8 15000-20000 .\$. ;V?078 =0 1 :3 <0A8 BV;0.

5@54>7C20==O.

>2V4><;5=L 4> FL>3> G0AC =5 1C;>.

>2V4><;O;AO, 1> 4C65 28A>:V 4>78 ?0=:@:50B8=C ?>2?070=V 7 @>728B< 3V?5@C@8:57C@VW.

5>;<5=4>20=V ?V4B@848, 1> 2;NGONBL ?@8?8=5==O ;V:C20=O D5@<5=B0<8 V 70157?5G5=O 4>AB0B=L>W @53V4@0B0FVW.

@8 ?5@54>7C20=V <6;825?V4A8;5=O ?@>O2V2 ?>1VG=8E 5D5;BV2.

>1VG=V 5D5;B8.

I>:C VW A8AB5<8.

?8A0=V @50;FVW 3V?5@GCB;82>ABV =5309=>3> B8?C (28A8?8 =0 H;V@V. :@>?820=0, 3V?5@5=52@>B8G=89 =01@O; 1>;V C 682>BV, 7@<8 :0>28E <0A, GE0=O, A;L>7>B5G0 B0 1@>=>E>A?07<) ?VA;O
70AB>AC20=O ?>@>H:C 7 ?V4H;C=>28E 70;>7.

I>:C H;C=>2>:8H:>2>3> B@0:BC.

?0FVT=BV2 7 2VAF84>7< A?>AB5@V30>AO D>@F5:0=L=V9 4V;O=EV B0 C 28AEV4=V9 G0AB8=V >1>4>2>W :8H:8 ?VA;O ?@87=0G5==O ?>@>H:C 7 ?V4H;C=>28E 70;>7 C 28A>:8E 4>70E; >?8A0=V
0;5@3VG=V @50;FVW 7 1>:C H;C=>2>:8H:>2>3> B@0:BC (B0;V O: 4V0@50, H;C=>2V ?>@CH5=O B0 =C4>B0).

I>:C =8@>: B0 A5G>282V4=8E H;OE2V.

?0FVT=BV2 7 2VAF84>7< ;>A>1;82> ?VA;O 70AB>AC20=O ?@:5?0@0BC C 28A>:8E 4>70E, <65 ?>A8;8B8A0 5A:@5FVO A5G>2>W :8A;>B8 V7 A5G5N. ">2>W :8A;>B8 V7 A5G5N, 1>1 =5 4>?CAB8B8
CB2>@5=O 0<5=V2 A5G>2>W :8A;>B8.

70T<>4V0 7 V=H8<8 ;V:0@AL:8<8 70A>10<8 B0 V=HV 2848 270T<>4V9.

@8 70AB>AC20=V 3>B>28E ;V:0@AL:8E 70A>1V2, 1> 7=86C20;L=0 4V0 0:0@1>78 V ;C<65 7=86C20B8A0 ?@8 4>=>G0A=>AC20=V 0=3@>;C 20000.

"5@ABV. 3 @>:8.

5 70AB>A>2C20B8 ?@:5?0@0B ?VA;O 70;V=G5=O B5@ABV, 2:070=>3> =0 C?0>2FV.

#<>28 715@V30==O.

15@V30B8 ?@8 B5

15@V30B8 C =54>ABC?>

#?0:>2:0.

;VAB5@ ?> 10 B01;5B>; ?> 2 01> ?> 5 1;VAB5@V2 C :0@B=>V9 :>@>1FV.

0B53>@VO 2V4?CA: C. 57 @5F5?B0.