

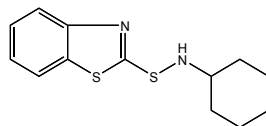
# Plastic Additive 2011 Supplement (58 New Plastic Additives)

## Accelerators

### Accelerator CBTS

*N-cyclohexyl-2-benzothiazole sulfenamide*

PLAS-AC-007N 50 mg



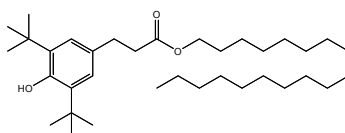
CAS Number 95-33-0  
Formula  $C_{13}H_{16}N_2S_2$   
M.W. 264.41

## Antioxidants

### Anox® PP18

*Octadecyl 3-(3,5-ditert-butyl-4-hydroxyphenyl)propanoate*

PLAS-AX-114N 50 mg

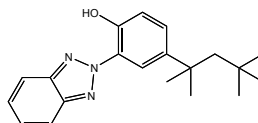


CAS Number 2082-79-3  
Formula  $C_{35}H_{62}O_3$   
M.W. 530.86

### 2-(2H-Benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol

*2-(benzotriazol-2-yl)-4-(2,4,4-trimethylpentan-2-yl)phenol*

PLAS-AX-094N 50 mg

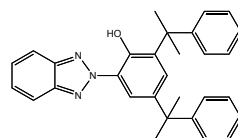


CAS Number 3147-75-9  
Formula  $C_{20}H_{25}N_3O$   
M.W. 323.43

### BLS® 234

*2-[2-Hydroxy-3,5-di-(1,1-dimethylbenzyl)]-2H-benzotriazole*

PLAS-AX-088N 50 mg

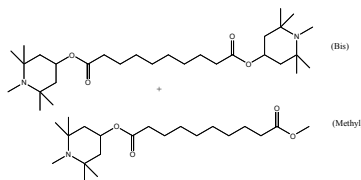


CAS Number 70321-86-7  
Formula  $C_{30}H_{29}N_3O$   
M.W. 447.57

### BLS 292

*2-[2-Hydroxy-3,5-di-(1,1-dimethylbenzyl)]-2H-benzotriazole*

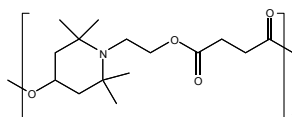
PLAS-AX-089N 50 mg



CAS Number 41556-26-7/  
8219-37-7  
Formula  $C_{30}H_{29}N_3O_4$ /  
 $C_{21}H_{29}NO_4$   
M.W. 508.78/369.54

### BLS 1622

PLAS-AX-096N 50 mg

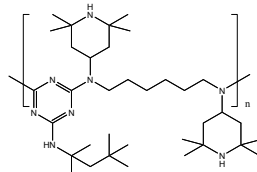


CAS Number 65447-77-0  
Formula  $(C_{15}H_{25}NO_4)_n$   
M.W.  $(283.35)_n$

### BLS 1944

*Poly[[6-[(1,1,3,3-tetramethylbutyl)aminol]-s-triazine-2,4-diy]][(2,2,6,6-tetramethyl-4-piperidyl)imino]]hexamethylylene[(2,2,6,6-tetramethyl-4-piperidyl)imino]*

PLAS-AX-090N 50 mg



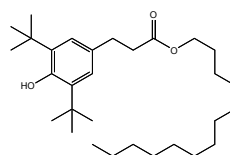
CAS Number 70624-18-9  
Formula  $(C_{35}H_{66}N_8)_n$   
M.W.  $(599.09)_n$

**Antioxydants (continued)**

**BNX 1077**

*Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, isotridecyl ester*

PLAS-AX-087N 50 mg

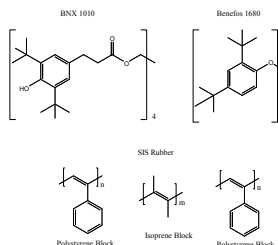


**CAS Number** 847488-62-4  
**Formula** C<sub>30</sub>H<sub>52</sub>O<sub>3</sub>  
**M.W.** 460.73

**BNX 1225**

*Blend of BNX®1010, Benefos®1680 and SIS Block Copolymer*

PLAS-AX-091N 50 mg

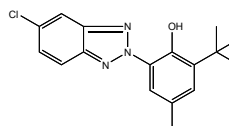


**CAS Number** 6683-19-8/  
31570-04-4/  
25038-32-8  
**Formula** N/A  
**M.W.** N/A

**2-tert-Butyl-6-(5-chloro-2H-benzotriazol-2-yl)-4-methylphenol**

*2-tert-butyl-6-(5-chlorobenzotriazol-2-yl)-4-methylphenol*

PLAS-AX-093N 50 mg

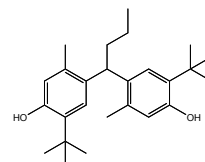


**CAS Number** 3896-11-5  
**Formula** C<sub>17</sub>H<sub>16</sub>ClN<sub>3</sub>O  
**M.W.** 315.80

**4,4'-Butylidenebis(6-tert-butyl-m-cresol)**

*2-tert-butyl-4-(5-tert-butyl-4-hydroxy-2-methylphenyl)sulfanyl-5-methylphenol*

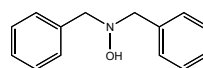
PLAS-AX-105N 50 mg



**CAS Number** 85-60-9  
**Formula** C<sub>26</sub>H<sub>38</sub>O<sub>2</sub>  
**M.W.** 382.58

**Dibenzylhydroxylamine**

PLAS-AX-092N 50 mg

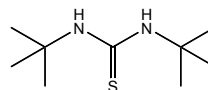


**CAS Number** 621-07-8  
**Formula** C<sub>14</sub>H<sub>15</sub>NO  
**M.W.** 213.28

**N,N'-Dibutylthiourea**

*1,3-Dibutylthiourea*

PLAS-AX-102N 50 mg

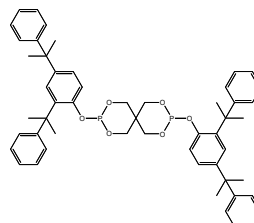


**CAS Number** 109-46-6  
**Formula** C<sub>9</sub>H<sub>20</sub>N<sub>2</sub>S  
**M.W.** 188.33

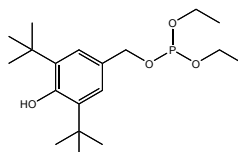
**3,9-Bis(2,4-dicumylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5,5]undecane**

*3,9-bis[2,4-bis(2-phenylpropan-2-yl)phenoxy]-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5,5]undecane*

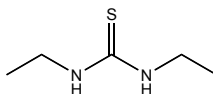
PLAS-AX-111N 50 mg



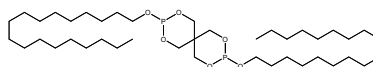
**CAS Number** 154862-43-8  
**Formula** C<sub>53</sub>H<sub>58</sub>O<sub>6</sub>P<sub>2</sub>  
**M.W.** 852.97

**Antioxydants (continued)**
**Diethyl 3,5-Di-tert-butyl-4-hydroxybenzylphosphonate**
*2,6-di-tert-butyl-4-(diethoxyphosphorylmethyl)phenol*

**PLAS-AX-110N** 50 mg

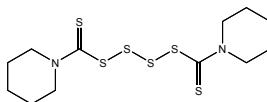
**CAS Number** 976-56-7  
**Formula** C<sub>19</sub>H<sub>33</sub>O<sub>4</sub>P  
**M.W.** 356.44

**N,N'-Diethylthiourea**
*1,3-Diethyl-2-thiourea*

**PLAS-AX-103N** 50 mg

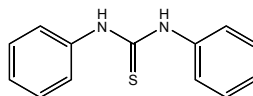
**CAS Number** 105-55-5  
**Formula** C<sub>5</sub>H<sub>12</sub>N<sub>2</sub>S  
**M.W.** 132.23

**O,O'-Dioctadecylpentaerythritol**
*O,O'-Dioctadecylpentaerythritol bis(phosphite)*

**PLAS-AX-108N** 50 mg

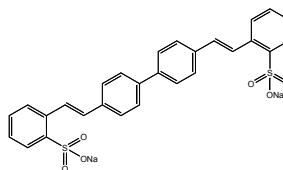
**CAS Number** 3806-34-6  
**Formula** C<sub>41</sub>H<sub>82</sub>O<sub>6</sub>P<sub>2</sub>  
**M.W.** 733.03

**Dipentamethylenethiuram**
*Piperidine, 1,1'-(tetrathiodicarbonothioyl)-bis-*

**PLAS-AX-104N** 50 mg

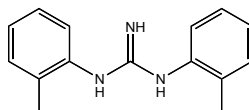
**CAS Number** 120-54-7  
**Formula** C<sub>12</sub>H<sub>20</sub>N<sub>2</sub>S<sub>6</sub>  
**M.W.** 384.70

**1,3-Diphenyl-2-thiourea**
*1,3-di(phenyl)thiourea*

**PLAS-AX-100N** 50 mg

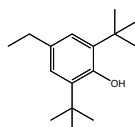
**CAS Number** 102-08-9  
**Formula** C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>S  
**M.W.** 228.31

**Distyryl biphenyl**

**PLAS-AX-099N** 50 mg

**CAS Number** 27344-41-8  
**Formula** C<sub>28</sub>H<sub>20</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>  
**M.W.** 562.57

**1,3-Di-o-tolylguanidine**
*1,2-bis(2-methylphenyl)guanidine*

**PLAS-AX-101N** 50 mg

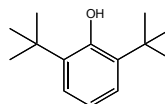
**CAS Number** 97-39-2  
**Formula** C<sub>15</sub>H<sub>17</sub>N<sub>3</sub>  
**M.W.** 239.32

**2,6-Di-tert-butyl-4-ethylphenol**
*2,6-Bis(1,1-dimethylethyl)-4-ethylphenol*

**PLAS-AX-107N** 50 mg

**CAS Number** 4130-42-1  
**Formula** C<sub>16</sub>H<sub>26</sub>O  
**M.W.** 234.38

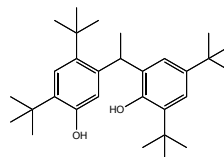
**Antioxydants (continued)**
**2,6-Di-tert-butylphenol**
*2,6-ditert-butylphenol*

PLAS-AX-112N 50 mg


**CAS Number** 128-39-2  
**Formula** C<sub>14</sub>H<sub>22</sub>O  
**M.W.** 206.32

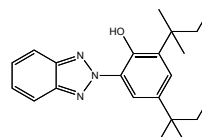
**2,2'-Ethylidene-bis(4,6-di-tert-butylphenol)**
*Phenol, 2,2'-ethylidenebis[4,6-bis(1,1-dimethylethyl)-*

PLAS-AX-106N 50 mg


**CAS Number** 35958-30-6  
**Formula** C<sub>30</sub>H<sub>46</sub>O<sub>2</sub>  
**M.W.** 438.69

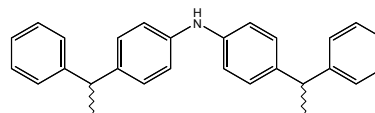
**2-(2'-Hydroxy-3',5'-di-tert-amylphenyl) benzotriazole**
*2-(benzotriazol-2-yl)-4,6-bis(2-methylbutan-2-yl)phenol*

PLAS-AX-095N 50 mg


**CAS Number** 25973-55-1  
**Formula** C<sub>22</sub>H<sub>29</sub>N<sub>3</sub>O  
**M.W.** 351.49

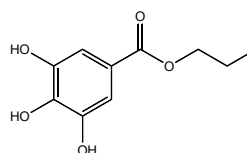
**Naugard® 635**
*4-(1-phenylethyl)-N-[4-(1-phenylethyl)phenyl]aniline*

PLAS-AX-113N 50 mg


**CAS Number** 68442-68-2  
**Formula** C<sub>38</sub>H<sub>27</sub>N  
**M.W.** 377.52

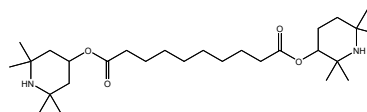
**Propyl gallate**
*propyl 3,4,5-trihydroxybenzoate*

PLAS-AX-109N 50 mg


**CAS Number** 121-79-9  
**Formula** C<sub>10</sub>H<sub>12</sub>O<sub>5</sub>  
**M.W.** 212.20

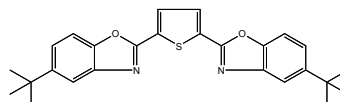
**Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate**
*bis(2,2,6,6-tetramethylpiperidin-4-yl) decanedioate*

PLAS-AX-097N 50 mg


**CAS Number** 52829-07-9  
**Formula** C<sub>28</sub>H<sub>52</sub>N<sub>2</sub>O<sub>4</sub>  
**M.W.** 480.72

**2,2'-(2,5-thiophenediyl)bis(5-tert-butylbenzoxazole)**

PLAS-AX-098N 50 mg


**CAS Number** 7128-64-5  
**Formula** C<sub>26</sub>H<sub>26</sub>N<sub>2</sub>O<sub>2</sub>S  
**M.W.** 430.56

## Antiozonants

Akrowax™ 195

A highly refined petroleum wax which is comprised of long chain saturated hydrocarbon molecules

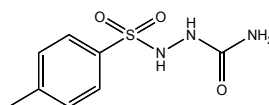
CAS Number 64742-42-3  
Formula N/A  
M.W. N/A

PLAS-AZ-002N 50 mg

## Blowing Agents, Plasticizers

Celogen® RA

[(4-methylphenyl)sulfonylamino]urea

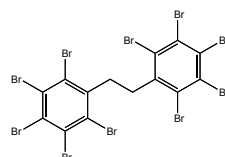


CAS Number 10396-10-8  
Formula C<sub>8</sub>H<sub>11</sub>N<sub>3</sub>O<sub>3</sub>S  
M.W. 229.26

PLAS-BA-003N 50 mg

## Flame Retardants

Saytex® 8010



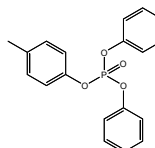
CAS Number 84852-53-9  
Formula C<sub>14</sub>H<sub>4</sub>Br<sub>10</sub>  
M.W. 971.22

PLAS-FR-001N 50 mg

## Plasticizers

Cresyl Diphenyl Phosphate

(4-methylphenyl) diphenyl phosphate

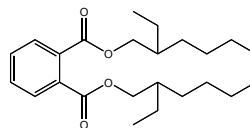


CAS Number 26444-49-5  
Formula C<sub>19</sub>H<sub>17</sub>O<sub>4</sub>P  
M.W. 340.31

PLAS-PL-043N 50 mg

Diisooctyl phthalate

bis(6-methylheptyl) benzene-1,2-dicarboxylate

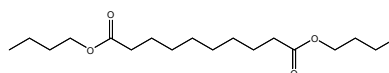


CAS Number 27554-26-3  
Formula C<sub>24</sub>H<sub>38</sub>O<sub>4</sub>  
M.W. 390.56

PLAS-PL-051N 50 mg

Dibutyl Sebacate

Dibutyl decanedioate

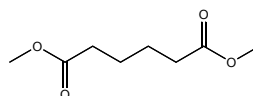


CAS Number 109-43-3  
Formula C<sub>18</sub>H<sub>34</sub>O<sub>4</sub>  
M.W. 314.46

PLAS-PL-041N 50 mg

Dimethyl adipate

Dimethyl hexanedioate



CAS Number 627-93-0  
Formula C<sub>8</sub>H<sub>14</sub>O<sub>4</sub>  
M.W. 174.19

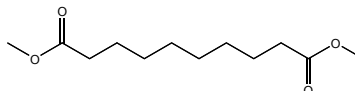
PLAS-PL-050N 50 mg

## Plasticizers (continued)

### Dimethyl Sebacate

*Dimethyl decanedioate*

PLAS-PL-040N 50 mg

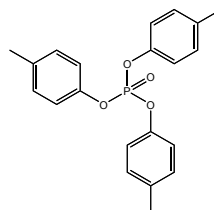


CAS Number 106-79-6  
Formula  $C_{12}H_{22}O_4$   
M.W. 230.30

### Disflamoll® TKP Plasticizer

*Tricresyl phosphate*

PLAS-PL-053N 50 mg

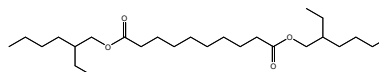


CAS Number 1330-78-5  
Formula  $C_{21}H_{21}O_4P$   
M.W. 368.36

### 2-Ethylhexyl sebacate

*bis(2-ethylhexyl) decanedioate*

PLAS-PL-044N 50 mg

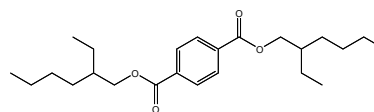


CAS Number 122-62-3  
Formula  $C_{26}H_{50}O_4$   
M.W. 426.67

### Bis(2-Ethylhexyl) terephthalate

*bis(2-ethylhexyl) benzene-1,4-dicarboxylate*

PLAS-PL-045N 50 mg

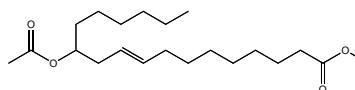


CAS Number 6422-86-2  
Formula  $C_{24}H_{38}O_4$   
M.W. 390.56

### Methyl O-Acetylricinoleate

*Methyl (Z)-12-acetyloxyoctadec-9-enoate*

PLAS-PL-042N 50 mg

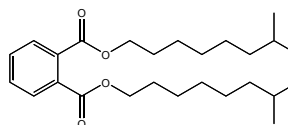


CAS Number 140-03-4  
Formula  $C_{21}H_{38}O_4$   
M.W. 354.52

### Plasthall® DINP Plasticizer

*Diisononyl phthalate*

PLAS-PL-052N 50 mg

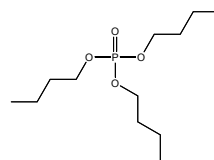


CAS Number 28553-12-0  
Formula  $C_{26}H_{42}O_4$   
M.W. 418.61

### Tributylphosphate

Tributyl phosphate

PLAS-PL-048N 50 mg

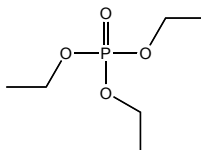


CAS Number 126-73-8  
Formula  $C_{12}H_{27}O_4P$   
M.W. 266.31

**Plasticizers (continued)**
**Triethylphosphate**

Triethyl phosphate

PLAS-PL-047N 50 mg


**CAS Number** 78-40-0

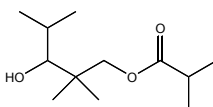
**Formula** C<sub>6</sub>H<sub>15</sub>O<sub>4</sub>P

**M.W.** 182.15

**2,2,4-Trimethyl-1,3-pentanediol-isobutyrate**

(3-hydroxy-2,2,4-trimethylpentyl) 2-methylpropanoate

PLAS-PL-046N 50 mg

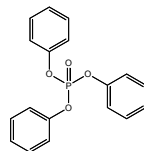

**CAS Number** 25265-77-4

**Formula** C<sub>12</sub>H<sub>24</sub>O<sub>3</sub>
**M.W.** 216.32

**Triphenylphosphate**

Triphenyl phosphate

PLAS-PL-049N 50 mg


**CAS Number** 115-86-6

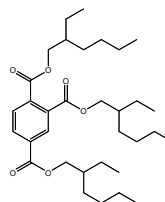
**Formula** C<sub>18</sub>H<sub>15</sub>O<sub>4</sub>P

**M.W.** 326.28

**Tris(2-ethylhexyl)Trimellitate**

1,2,4-Benzenetricarboxylic acid, tris(2-ethylhexyl) ester

PLAS-PL-039N 50 mg


**CAS Number** 3319-31-1

**Formula** C<sub>33</sub>H<sub>54</sub>O<sub>6</sub>
**M.W.** 546.78

**Processing Aid**

Akrochem® Ceresin Wax

PLAS-PA-002N 50 mg

A complex combination of hydrocarbons produced by the purification of Ozocerite with Sulfuric acid and filtration through bone black to form waxy cakes

**CAS Number** 8001-75-0

**Formula** N/A

**M.W.** N/A

**Retarders**

Akrochem® Retarder BAX

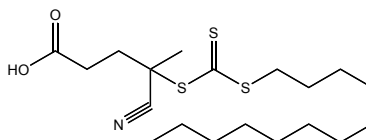
PLAS-RT-011N 50 mg

**CAS Number** 65-85-0

**Formula**
**M.W.**

4-Cyano-4-[(dodecylsulfanylthiocarbonyl)sulfanyl]pentanoic acid

PLAS-RT-005N 50 mg


**CAS Number** 870196-80-8

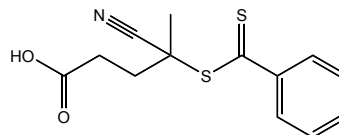
**Formula** C<sub>19</sub>H<sub>33</sub>N<sub>2</sub>S<sub>3</sub>
**M.W.** 403.67

**Retarders (continued)**
**4-Cyano-4-(phenylcarbonothioylthio)pentanoic acid**

Aldrich

*Pentanoic acid, 4-cyano-4-[(phenylthioxomethyl)thio]-*

PLAS-RT-003N 50 mg


**CAS Number** 201611-92-9

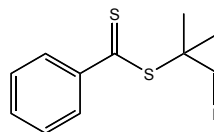
**Formula** C<sub>13</sub>H<sub>13</sub>NO<sub>2</sub>S<sub>2</sub>
**M.W.** 279.38

**2-Cyano-2-propyl benzodithioate**

Aldrich

*Benzenecarbodithioic acid, 1-cyano-1-methylethyl ester*

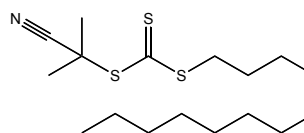
PLAS-RT-002S 1000 µg/mL in Hexane:Acetone (1:1) 1 mL


**CAS Number** 201611-85-0

**Formula** C<sub>11</sub>H<sub>11</sub>NS<sub>2</sub>
**M.W.** 221.34

**2-Cyano-2-propyl dodecyl trithiocarbonate**

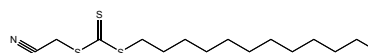
PLAS-RT-004N 50 mg


**CAS Number** 870196-83-1

**Formula** C<sub>17</sub>H<sub>31</sub>NS<sub>3</sub>
**M.W.** 345.63

**Cyanomethyl dodecyl trithiocarbonate**

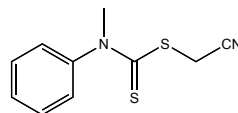
PLAS-RT-006N 50 mg


**CAS Number** 796045-97-1

**Formula** C<sub>15</sub>H<sub>27</sub>NS<sub>3</sub>
**M.W.** 317.58

**Cyanomethyl methyl(phenyl)carbamdithioate**

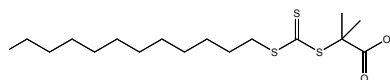
PLAS-RT-009N 50 mg


**CAS Number** 76926-16-4

**Formula** C<sub>10</sub>H<sub>10</sub>N<sub>2</sub>S<sub>2</sub>
**M.W.** 222.33

**2-(Dodecylthiocarbonothioylthio)-2-methylpropionic acid**

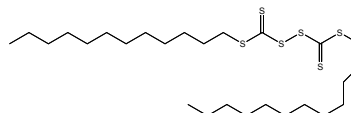
PLAS-RT-010N 50 mg


**CAS Number** 461642-78-4

**Formula** C<sub>17</sub>H<sub>32</sub>O<sub>2</sub>S<sub>3</sub>
**M.W.** 364.63

**Bis(dodecylsulfanylthiocarbonyl) disulfide**

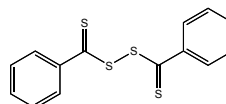
PLAS-RT-008N 50 mg


**CAS Number** 870532-86-8

**Formula** C<sub>26</sub>H<sub>50</sub>S<sub>6</sub>
**M.W.** 555.07

**Bis(thiobenzoyl) disulfide**

PLAS-RT-007N 50 mg


**CAS Number** 5873-93-8

**Formula** C<sub>14</sub>H<sub>10</sub>S<sub>4</sub>
**M.W.** 306.49