



SAFETY DATA SHEET

Roof Cleaner PLUS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Roof Cleaner PLUS

Product number RCP5L

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Biocide

1.3. Details of the supplier of the safety data sheet

Supplier Ionic Systems Limited
 Westerngate
 Hillmead Enterprise Park
 Swindon
 SN5 5WN

 Tel 01793 871 386
 Email info@ionicsystems.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1793 871 388 (9am - 5pm)
 For immediate first aid advice call 111 in the UK.
 For emergencies call 999 in the UK.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H410 Very toxic to aquatic life with long lasting effects.

Roof Cleaner PLUS

Precautionary statements	P273 Avoid release to the environment.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P501 Dispose of contents/ container in accordance with national regulations.
Contains	QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES		30-50%
CAS number: 68424-85-1	EC number: 270-325-2	
M factor (Acute) = 10	M factor (Chronic) = 1	
Exempt -Biocidal application as identified in Article 15		
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention.
Ingestion	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Severe irritation of nose and throat.
Ingestion	Chemical burns. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Roof Cleaner PLUS

Skin contact Chemical burns.

Eye contact Severe irritation, burning and tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly. Irrigate thoroughly with water or saline solution.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards Hydrogen chloride (HCl). Oxides of the following substances: Carbon. Nitrogen.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. If involved in a fire, shut off flow if it can be done without risk.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a well-ventilated place. Store at temperatures above 10°C.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Roof Cleaner PLUS

Ingredient comments 1R H[SRVXUH OLPLWV NQRZQ IRU LQJUHGLHQW V

([SRVXUH FRQWUROV

3URWHFWLYH HTXLSPHQW



(\H IDFH SURWHFWLRQ IROORZLQJ SURWHFWLRQ V KRXOG FRPSOI HTXLSPHQW IRU H\H DQG IDFH SURWHFWLRQ V KRXOG FRPSOI

+DQG SURWHFWLRQ KH PRVW VXLWDEOH JORYH VKRXOG EH FKRVLQ LQ FRQVXOW VXSOLHU PDQXIDFWXUHU ZKR FDQ SURYLGH LQIRUPDWLRQ D PDWHULDO\HOHFWHG JORYHV VKRXOG KDYH D EUHDNLQJURXJK UXEEHJORYH WKLHQFVSURWHFW KDQGV IURP FKHPLFDOV JORY (XURSHDQ 6WDQGDUG (1

2WKHU VNLQ DQG ERGV UXEEHU :HURVZKHU DSURQ SURWHFWLRQ

5HVSLUDWRU\ SURWHFWLRQ ODWLRQ LV LQDGHTXDWH VXLWDEOH UHVSLUDWRU\

6(&7,21 3K\VLFDQ DQG FKHPLFDQ SURSHUWLHV

,QIRUPDWLRQ RQ EDVLF SKIVLFDQ DQG FKHPLFDQ SURSHUWLHV

\$SSHUUDQFH &OHDU OLTXLG

&RORXU &RORXUOHVV

2GRXU 6OLJKW

2GRXU WKUHVKROGLR LQIRUPDWLRQ DYDLODEOH

S+ S+ FRQFHQWUDWHG VROXWLRQ

0HOWLQJ SRLQW r&

,QLWLDO ERLQLQJ SRLQW DQG UDQJH

)ODVK SRLQW 1R LQIRUPDWLRQ DYDLODEOH

(YDSRUDWLRQ UDWHR LQIRUPDWLRQ DYDLODEOH

(YDSRUDWLRQ IDFWRULQIRUPDWLRQ DYDLODEOH

)ODPPDELOLW\ VROGLQJLQIRUPDWLRQ DYDLODEOH

8SSHU ORZHU IODPPDELOLW\ LQIRUPDWLRQ DYDLODEOH
H[SORVLYH OLPLWV

2WKHU IODPPDELOLW\LQIRUPDWLRQ DYDLODEOH

9DSRXU SUHVXUH PEDU # r&

9DSRXU GHQVLW\ 1R LQIRUPDWLRQ DYDLODEOH

5HODWLYH GHQVLW\ # r&

%XON GHQVLW\ 1R LQIRUPDWLRQ DYDLODEOH

6ROXELOLW\ LHV 6ROXEOH LQ ZDWHU

3DUWLWLRQ FRHIILFLHQLQIRUPDWLRQ DYDLODEOH

Roof Cleaner PLUS

Auto-ignition temperature 1R LQIRUPDWLRQ DYDLODEOH

'HFRPSRVLWLRQ 7HFRPSRVLWLRQ DYDLODEOH

9LVFRVLW\ F6W # 2(' &'

([SORVLYH SURSHUWLRQ LQIRUPDWLRQ DYDLODEOH

([SORVLYH XQGHU WKH LQIRUPDWLRQ DYDLODEOH
RI D IODPH

2[LGLVLQJ SURSHUWLRQ LQIRUPDWLRQ DYDLODEOH

2WKHU LQIRUPDWLRQ

2WKHU LQIRUPDWLRQ GHWHUPLQH

5HIUDFWLYH LQGH[1R LQIRUPDWLRQ DYDLODEOH

3DUWLFOH VL]H 1R LQIRUPDWLRQ DYDLODEOH

0ROHFXODU ZHLJKW LQIRUPDWLRQ DYDLODEOH

9RODWLWL 1R LQIRUPDWLRQ DYDLODEOH

6DWXUDWLRQ FRQFHQWUDWLRQ DYDLODEOH

&ULWLFDO WHPSHUDWLRQ LQIRUPDWLRQ DYDLODEOH

9RODWLOH RUJDQLFRQPSRUXQV LQIRUPDWLRQ DYDLODEOH

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

5HDFWLYLW\

5HDFWLYLW\ 7KH IROORZLQJ PDWHULDOV D[LGHVQJZDWHWKHOSURGXFV

&KHPLFDO VWDELOLW\

6WDELOLW\ 6WDEOH DW QrupDO DPelHQW WHPSHUDWXUHV DQG ZKHQ XV

3RVVLELOLW\ RI KDJDUGRXV UHDFWLRQV

3RVVLELOLW\ RI KDJDUGRXV GHWHUPLQH
UHDFWLRQV

&RQGLWLRQV WR DYRLG

&RQGLWLRQV WR DYRLG H[FHVLYH KHDW IRU SURORQJHG SHULRGV RI WLP

,QFRPSDWLEOH PDWHULDOV

0DWHULDOV WR DYRLG RQJ R[LGLVWURQJHQWVQJ DONDOLV

+DJDUGRXV GHFRPSRVLWLRQ SURGXFWV

+DJDUGRXV GHFRPSRVLWLRQ WKH IROORZLQJ RQVWUHQV
SURGXFWV

6(&7,21 7R[LFRORJLFDO LQIRUPDWLRQ

,QIRUPDWLRQ RQ WR[LFRORJLFDO HIIHFWV

\$FXWH WR[LFLW\ RUDO

\$FXWH WR[LFLW\ RUDO /'æá

PJ NJ

6SHFLHV 5DW

\$7(RUDO PJ NJ

Roof Cleaner PLUS

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg)

6 SHFLHV 5 DW

6 NLQ FRUURVLRQ LUULWDWLRQ

\$QLPDO GDWD &DXVHV VHYHUH EXUQV

6 HULRXV H\H GDPDJH LUULWDWLRQ

6 HULRXV H\H GDPDJH LUULWDWLRQ EXUQV

5 HVSLUDWRU\ VHQVLWLVDWLRQ

5 HVSLUDWRU\ VHQVLWLVDWLRQ DYDLODEOH

6 NLQ VHQVLWLVDWLRQ

6 NLQ VHQVLWLVDWLRQ QIRUPDWLRQ DYDLODEOH

*HUP FHOOPXWDJHQLFLW\

*HQRWR[LFLW\ LQIRUPDWLRQ DYDLODEOH

&DUFLQRJHQLFLW\

&DUFLQRJHQLFLW\ 1R LQIRUPDWLRQ DYDLODEOH

5 HSURGXFWLYH WR[LFLW\

5 HSURGXFWLYH WR[LFLW\ PHUWDLW DYDLODEOH

6 SHFLILF WDUJHW RUJDQ WR[LFLW\ VLQJOH H[SRVXUH

6727 VLQJOH H[SRVXUH QIRUPDWLRQ DYDLODEOH

6 SHFLILF WDUJHW RUJDQ WR[LFLW\ UHSHDWHG H[SRVXUH

6727 UHSHDWHG H[SRVXUH QIRUPDWLRQ DYDLODEOH

\$VSLUDWLRQ KDJDUG

\$VSLUDWLRQ KDJDUG LQIRUPDWLRQ DYDLODEOH

,QKDODWLRQ 9DSRXUV PD\ LUULWDWH WKSRDQJOHV[SRVXUH\PDVWDPVH WK
DGYHUVH &RIRJWLQJLFXOW\ LQ EUHDWKLQJ

,QJHVWLRQ ,QJHVWLRQ PD\ FDXVH VHYHUH LUULWDWLRQ RI WKH PRXWK V
WUDFW

6 NLQ FRQWDFW &RUURV\WRQJHG FRQWDFW FDXVHV VHULRXV WLVVXH GDPDJ
(\H FRQWDFW OD\ FDXVH FKHPLFDO H\H EXUQV

6(&7,21 (FRORJLFDO LQIRUPDWLRQ

(FRWR[LFLW\ 7KH SURGXFW FRQWDLQV D VXEVWDQFH ZKLFK LV YHU\ WR[L
7R[LFLW\

7R[LFLW\ 9HU\ WR[LFLWR DTXDWLF RUJDQLVPV

\$FXWH DTXDWLF WR[LFLW\

\$FXWH WR[LFLW\ 1&VK KRXUV PJ O 2QFRUK\QFKXV P\NLVV 5DLQERZ WUR
2(&'

\$FXWH WR[LFLW\ DTXDWLF KRXUV PJ O 'DSKQLD PDJQD
LQYHUWHEUDWHV 2(&'

Roof Cleaner PLUS

Acute toxicity - aquatic plants (& æ á KRXUV PJ O 6HOHQDVWUXP FDSULFRUQXWXP
2 (& ')

3HUVLVWHQFH DQG GHJUDGDELOLWI

3HUVLVWHQFH DQG GHJUDGDELOLWI\UHDGLO\ ELRGHJUDGDEOH
%LRGHJUDGDWLRQ'HJUDGDWLRQ

2 (& ')

&KHPLFDO R[\JHQ GHPDQG J VXEVDQFH

%LRDFFXPXODWLYH SRWHQWLDO

%LRDFFXPXODWLYH SRWHQWLDO GRHV QRW FRQWDLQ DQ\ VXEVDQFHV H[SHFWHG
3DUWLWLRQ FRHIILFLHQUPDWLRQ DYDLODEOH

ORELOLWI LQ VRLO

ORELOLWI 7KH SURGXFW LV VROXEHOH LQ ZDWHU

5HVXOWV RI 3%7 DQG Y3Y% DVVHVVPHQW

5HVXOWV RI 3%7 DQG Y3Y% GRHV QRW FRQWDLQ DQ\ VXEVDQFHV FODVVLF
DVVHVVPHQW

2WKHU DGYHUVH HIIHFWV

2WKHU DGYHUVH HIIHFWV

6(&7,21 'LVSRVDO FRQVLGHUDWLRQV

:DVWH WUHDWPHQW PHWKRGV

*HQHUDO LQIRUPDWLRQ VKRXOG EH WUHDWHG QRW FRQWDLQHG ZDWHU
HPSW\

'LVSRVDO PHWKRGV LVSRVH RI ZDVWH WR OLFHQVHG ZDVWH GLVSRVDO VLWH LQ
ORFDO :DVWH 'LVSRVDO \$XWKRULW\

6(&7,21 7UDQVSRUW LQIRUPDWLRQ

81 QXPEHU

81 1R \$'5 5, '

81 1R ,0 '*

81 1R ,&\$2

81 1R \$'1

81 SURSHU VKLSSLQJ QDPH

3URSHU VKLSSLQJ QDPH 6,9(/,48,' 1 2 6 &217\$,16 48\$7(51\$5< \$0021,80 &203281
\$'5 5, ' %(1=</ & \$/.</' ,0(7+</ &+/25,'(6

3URSHU VKLSSLQJ QDPH 6,9(*,48,' 1 2 6 &217\$,16 48\$7(51\$5< \$0021,80 &203281
%(1=</ & \$/.</' ,0(7+</ &+/25,'(6

3URSHU VKLSSLQJ QDPH 6,9(\$2,48,' 1 2 6 &217\$,16 48\$7(51\$5< \$0021,80 &203281
%(1=</ & \$/.</' ,0(7+</ &+/25,'(6

3URSHU VKLSSLQJ QDPH 6,9(/,48,' 1 2 6 &217\$,16 48\$7(51\$5< \$0021,80 &203281
%(1=</ & \$/.</' ,0(7+</ &+/25,'(6

Roof Cleaner PLUS

14.3. Transport hazard class(es)

ADR/RID class

\$'5 5,' FODVVLILFDWLRQ FRGH

\$'5 5,' ODEHO

,0'* FODVV

,&\$2 FODVV GLYLVLRQ

\$'1 FODVV

7UDQVSRUW ODEHOV



3DFNLQJ JURXS

\$'5 5,' SDFNLQJ JURXS

,0'* SDFNLQJ JURXS,

,&\$2 SDFNLQJ JURXS

\$'1 SDFNLQJ JURXS,

(QYLURQPHQWDO KDJDUGV

(QYLURQPHQWDOO\ KDJDUGRXV VXEVWDQFH PDULQH SROOXWDQW



6SHFLDO SUHFDXWLRQV IRU XVHU

(P6) \$ 6 %

\$'5 WUDQVSRUW FDWHJRUI

(PHUJHQF\ \$FWLRQ &RGH

+DJDUG ,GHQWLILFDWLRQ 1XPEHU

\$'5 5,'

7XQQHO UHVVULFWLRQ FRGH

7UDQVSRUW LQ EXON DFFRUGLQJ WR \$QQH[,, RI 0\$532/ DQG WKH ,%& &RGH

7UDQVSRUW LQ EXONWDPSRWDGEQJWR

\$QQH[,, RI 0\$532/

DQG WKH ,%& &RGH

6(&7,21 5HJXODWRUI LQIRUPDWLRQ

6DIHWI\ KHDOWK DQG HQYLURQPHQWDO UHJXODWLRQV OHJLVODWLRQ VSHFL

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EU legislation

5HJXODWLRQ (& 1R RI WKH (XURSHDQ 3DUOLDPHQW D
'HFHPEHU FRQFHUQLQJ WKH 5HJLVWUDWLRQ (YDOXDWLRQ
&KHPLFDOV 5(\$&+ DV DPHQG HG
5HJXODWLRQ (& 1R RI WKH (XURSHDQ 3DUOLDPHQW D
'HFHPEHU RQ FODVVLILFDWLRQ ODEHOOLQJ DQG SDFNDJL
DPHQHG
&RPPLVVLRQ 5HJXODWLRQ (8 1R RI 0D\
7KLV SURGXFW PD\ LPSDFW 6(9(62 VWRUDJH UHJXODWLRQV

&KHPLFDO VDIHWI DVVHVVPHQW

1R FKHPLFDO VDIHWI DVVHVVPHQW KDV EHHQ FDUULHG RXW

6(&7,21 2WKHU LQIRUPDWLRQ

\$EEUHYLDWLRQV DQG DSRQVVR[LFLW\ (VWLDPDW
XVHG LQ WKH VDIHWI DSRQVVR[LFLW\ (VWLDPDW
5RDG
\$'1 (XURSHDQ \$JUHHPHQW FRQFHUQLQJ WKH ,QWHUQDWLRQD
,QODQG :DWHUZH
&\$6 &KHPLFDO \$EVWUDFWV 6HUYLFH
'1(/ 'HULYHG 1R (IIHW /HYHO
,,\$\$,QWHUQDWLRQDO \$LU 7UDQVSRUW \$VVRFLDWLRQ
,0'* ,QWHUQDWLRQDO 0DULWLPH 'DQJHURXV *RRGV
.RZ 2FWDQRO ZDWHU SDUWLWLRLQ FRHIILFLHQW
&æá /HWKDO &RQFHQWUDWLRQ WR RI D WHVW SRSXODW
'æá /HWKDO 'RVH WR RI D WHVW SRSXODWLRQ 0HGLDQ /
3%7 3HUVLVWHQW %LRDFFXPXODWLYH DQG 7R[LFXEVWDQF
31(& 3UHGLFWHG 1R (IIHW &RQFHQWUDWLRQ
5(\$&+ 5HJLVWUDWLRQ (YDOXDWLRQ \$XWKRULVDWLRQ DQG
(& 1R
5,' (XURSHDQ \$JUHHPHQW FRQFHUQLQJ WKH ,QWHUQDWLRQD
5DLO
Y3Y% 9HU\ 3HUVLVWHQW DQG 9HU\ %LRDFFXPXODWLYH
,,\$& ,QWHUQDWLRQDO \$JHQF\ IRU 5HVHDFK RQ &DQFHU
0\$532/ ,QWHUQDWLRQDO &RQYHQWLRQ IRU WKH 3UHYPH
PRGLLHG E\ WKH 3URWRERO RI
F\$7S(&RQYHUWHG \$FXWH 7R[LFLW\ 3RLQW (VWLDPDW
%&) %LRFRQFHQWUDWLRQ)DFWRU
%2' %LRFKHPLFDO 2[\JHQ 'HPDQG
(&æá RI PD[LPDO (IIHFWLYH &RQFHQWUDWLRQ
/2\$(& /RZHVW 2EVHUYHG \$GYHUVH (IIHW &RQFHQWUDWLRQ
/2\$/ /RZHVW 2EVHUYHG \$GYHUVH (IIHW /HYHO
12\$(& 1R 2EVHUYHG \$GYHUVH (IIHW &RQFHQWUDWLRQ
12\$/ 1R 2EVHUYHG \$GYHUVH (IIHW /HYHO
12(& 1R 2EVHUYHG (IIHW &RQFHQWUDWLRQ
/2(& /RZHVW 2EVHUYHG (IIHW &RQFHQWUDWLRQ
'0(/ 'HULYHG 0LQLPDO (IIHW /HYHO
(/ ([SRVXUH /LPLW
K3D +HFWRSDFDO
// /HWKDO /RDGLQJ ILIWI
2(&' 2UJDQLVDWLRQ IRU (FRQRPLF &R RSHUDWLRQ DQG 'HYHO
32: 2FWDQRO ZDWHU SDUWLWLRLQ FRHIILFLHQW
6&%%\$ VHOI FRQWDLQHG EUHDWKLQJ DSSDUDWXV
673 6HZDJH 7UHDWPHQW 30DQW
92& 9RODWLOH 2UJDQLF &RPSRXQG

Roof Cleaner PLUS

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	Supplier's information.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	15/11/2019
Version number	3.001
Supersedes date	18/05/2017
SDS number	15174
SDS status	Approved.
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.