



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830

SAFETY DATA SHEET

Powerflow Paste Medium

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

1.1 Product identifier

Product name : Powerflow Paste Medium
Product code : 20437
Product description : Not available.
Product type : Solid.

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

Restricted to professional users.

Material uses : soldering

1.3 Details of the supplier of the safety data sheet

Supplier : **Fernox**
2 Genesis Business Park
Albert Drive
Sheerwater
Woking GU21 5RW

Information contact : +44 (0) 330 100 7750
+44 (0) 330 100 7751
europeanregulatory@macdermid.com

1.4 Emergency telephone number

Supplier

Telephone number : +44 (0) 330 100 7750
Hours of operation : 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Dam. 1, H318

Ingredients of unknown toxicity :

Ingredients of unknown ecotoxicity :

Classification according to Directive 1999/45/EC [DPD]

Europe

Date of issue/Date of revision : 30.11.2016

A MacDermid Performance Solutions Business
A Platform Specialty Products Company 

SECTION 2: Hazards identification

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R41

Human health hazards : Risk of serious damage to eyes.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Causes serious eye damage.

Precautionary statements

Prevention : Wear eye or face protection: Recommended: safety glasses with side-shields. Wash hands thoroughly after handling.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or physician.

Storage : Not applicable.

Disposal : Not applicable.

Hazardous ingredients : Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-

Supplemental label elements : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Europe Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-hydrobromic acid	CAS: 24938-91-8 REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8	≥ 10 - < 25 ≥ 1 - < 3	Xn; R22 Xi; R41 C; R34 Xi; R37 See Section 16 for the full text of the R-phrases declared above.	Eye Dam. 1, H318 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 See Section 16 for the full text of the H statements declared above.	[1] [1] [2]
Austria					



SECTION 3: Composition/information on ingredients

<p>Belgium</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Bulgaria</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Croatia</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Czech Republic</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Denmark</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Estonia</p>					

SECTION 3: Composition/information on ingredients

<p>Finland</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>France</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Germany</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Greece</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Hungary</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥ 10 - < 25</p> <p>≥ 1 - < 3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Ireland</p>					

SECTION 3: Composition/information on ingredients

<p>Italy</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Latvia</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Lithuania</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Netherlands</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
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<p>Norway</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Poland</p>					

SECTION 3: Composition/information on ingredients

<p>Portugal</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Romania</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Slovakia</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Slovenia</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Spain</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>$\geq 10 - < 25$</p> <p>$\geq 1 - < 3$</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1] [2]</p>
<p>Sweden</p>					

SECTION 3: Composition/information on ingredients

<p>Switzerland</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥10 - <25</p> <p>≥1 - <3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1][2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥10 - <25</p> <p>≥1 - <3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1][2]</p>
<p>Turkey</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥10 - <25</p> <p>≥1 - <3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1][2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥10 - <25</p> <p>≥1 - <3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1][2]</p>
<p>United Kingdom (UK)</p> <p>Poly(oxy-1,2-ethanediyl), α-tridecyl-ω-hydroxy-hydrobromic acid</p>	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥10 - <25</p> <p>≥1 - <3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1][2]</p>
	<p>CAS: 24938-91-8</p> <p>REACH #: 01-2119479072-39 EC: 233-113-0 CAS: 10035-10-6 Index: 035-002-01-8</p>	<p>≥10 - <25</p> <p>≥1 - <3</p>	<p>Xn; R22</p> <p>Xi; R41 C; R34</p> <p>Xi; R37</p>	<p>Eye Dam. 1, H318</p> <p>Skin Corr. 1B, H314</p> <p>Eye Dam. 1, H318 STOT SE 3, H335</p>	<p>[1]</p> <p>[1][2]</p>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention

SECTION 4: First aid measures

immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

5.3 Advice for firefighters

Special precautions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.



SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 5 to 30°C (41 to 86°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Europe  hydrobromic acid	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values STEL: 2 ppm 15 minutes. STEL: 6.7 mg/m ³ 15 minutes.
Austria  hydrobromic acid	GKV_MAK (Austria, 12/2011). TWA: 2 ppm 8 hours. TWA: 6.7 mg/m ³ 8 hours. CEIL: 2 ppm 15 minutes. CEIL: 6.7 mg/m ³ 15 minutes.
Belgium  hydrobromic acid	Lijst Grenswaarden / Valeurs Limites (Belgium, 4/2014). STEL: 2 ppm 15 minutes. STEL: 6.7 mg/m ³ 15 minutes.
Bulgaria  hydrobromic acid	България Министерство на труда и социалната политика и Министерството на здравеопазването (Bulgaria, 1/2012). Limit value 15 min: 6.7 mg/m ³ 15 minutes. Limit value 15 min: 2 ppm 15 minutes.



SECTION 8: Exposure controls/personal protection

Croatia

Hydrobromic acid

MinGoRP GVI/KGVI (Croatia, 6/2013).

STELV: 6.7 mg/m³ 15 minutes.

STELV: 2 ppm 15 minutes.

Czech Republic

Hydrobromic acid

MZCR PEL/NPK-P (Czech Republic, 1/2013).

STEL: 6 mg/m³ 15 minutes.

STEL: 1.812 ppm 15 minutes.

TWA: 0.302 ppm 8 hours.

TWA: 1 mg/m³ 8 hours.

Denmark

Hydrobromic acid

Arbejdstilsynet (Denmark, 10/2012).

CEIL: 2 ppm

CEIL: 6.7 mg/m³

Estonia

Hydrobromic acid

Töökeskonna keemiliste ohutegurite piirnõrmi määrus nr 293 (Estonia, 1/2008).

STEL: 6.7 mg/m³ 15 minutes.

STEL: 2 ppm 15 minutes.

Finland

Hydrobromic acid

Työterveyslaitos, Sosiaali- ja terveysministeriö (Finland, 3/2014).

STEL: 2 ppm 15 minutes.

STEL: 6.7 mg/m³ 15 minutes.

France

Hydrobromic acid

Ministère du travail (France, 7/2012). Notes: Labour Act, Art. 4412-150 (Regulatory indicative exposure limits)

STEL: 2 ppm 15 minutes.

STEL: 6.7 mg/m³ 15 minutes.

Germany

Hydrobromic acid

TRGS900 AGW (Germany, 4/2014).

TWA: 6.7 mg/m³ 8 hours.

PEAK: 6.7 mg/m³ 15 minutes.

MAK-Werte Liste (Germany, 6/2014).

TWA: 2 ppm 8 hours.

PEAK: 2 ppm, 4 times per shift, 15 minutes.

TWA: 6.7 mg/m³ 8 hours.

PEAK: 6.7 mg/m³, 4 times per shift, 15 minutes.

Greece

Hydrobromic acid

Υπουργείο Εργασίας και Κοινωνικών Υποθέσεων (Greece, 2/2012).

TWA: 3 ppm 8 hours.

TWA: 10 mg/m³ 8 hours.

STEL: 3 ppm 15 minutes.

STEL: 10 mg/m³ 15 minutes.

Hungary

Hydrobromic acid

25/2000. (IX. 30.) EüM-SzCsM együttes rendelet (Hungary, 12/2011).

PEAK: 6.7 mg/m³ 15 minutes.

Ireland

Hydrobromic acid

NAOSH (Ireland, 12/2011).

OELV-15min: 2 ppm 15 minutes.

OELV-15min: 6.6 mg/m³ 15 minutes.

Italy



SECTION 8: Exposure controls/personal protection

hydrobromic acid	Ministry of Labour and Social Policy (Italy, 10/2013). Short Term: 2 ppm 15 minutes. Short Term: 6.7 mg/m ³ 15 minutes.
Latvia hydrobromic acid	Ministru kabineta - AER (Latvia, 2/2011). STEL: 2 ppm 15 minutes. STEL: 6.7 mg/m ³ 15 minutes.
Lithuania hydrobromic acid	Lietuvos Higienos Normos HN 23 (Lithuania, 10/2007). Absorbed through skin. STEL: 6.7 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes.
Netherlands hydrobromic acid	MinSZW Wettelijke Grenswaarden (Netherlands, 6/2014). STEL,15-min: 6.7 mg/m ³ 15 minutes.
Norway hydrobromic acid	FOR-2011-12-06-1358 (Norway, 1/2013). CEIL: 10 mg/m ³ CEIL: 3 ppm
Poland hydrobromic acid	Rozporządzenie Ministra Pracy i Polityki Społecznej (Dz.U. 2014 poz. 817) (Poland, 6/2014). CEIL: 6.5 mg/m ³
Portugal hydrobromic acid	Instituto Português da Qualidade (Portugal, 3/2007). CEIL: 2 ppm
Romania hydrobromic acid	HG 1218/2006 cu modificările și completările ulterioare (Romania, 1/2012). Short term: 6.7 mg/m ³ 15 minutes. Short term: 2 ppm 15 minutes.
Slovakia hydrobromic acid	Nariadenie vlády SR c. 355/2006 (Slovakia, 12/2011). STEL: 6.7 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes.
Slovenia hydrobromic acid	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Slovenia, 12/2010). TWA: 6.7 mg/m ³ 8 hours. TWA: 2 ppm 8 hours. KTV: 6.7 mg/m ³ , 4 times per shift, 15 minutes. KTV: 2 ppm, 4 times per shift, 15 minutes.
Spain hydrobromic acid	INSHT (Spain, 1/2014). STEL: 2 ppm 15 minutes. STEL: 7 mg/m ³ 15 minutes.
Sweden hydrobromic acid	AFS 2011:18 (Sweden, 12/2011). TWA: 1 ppm 8 hours. TWA: 3.5 mg/m ³ 8 hours. CEIL: 2 ppm 15 minutes. CEIL: 7 mg/m ³ 15 minutes.
Switzerland	



SECTION 8: Exposure controls/personal protection

hydrobromic acid

SUVA (Switzerland, 1/2014).

TWA: 2 ppm 8 hours.
TWA: 6.7 mg/m³ 8 hours.
STEL: 2 ppm 15 minutes.
STEL: 6.7 mg/m³ 15 minutes.

Turkey

hydrobromic acid

TR ISGGM OEL (Turkey, 12/2013).

STEL: 6.7 mg/m³ 15 minutes.
STEL: 2 ppm 15 minutes.

United Kingdom (UK)

hydrobromic acid

EH40/2005 WELs (United Kingdom (UK), 12/2011).

STEL: 10 mg/m³ 15 minutes.
STEL: 3 ppm 15 minutes.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: safety glasses with side-shields

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): disposable vinyl

SECTION 8: Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: None assigned.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: None assigned.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Solid. [Paste.]
- Colour** : White to yellowish.
- Odour** : Characteristic.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flash point** : Not available.
- Upper/lower flammability or explosive limits** : Not available.
- Relative density** : Not available.
- Solubility(ies)** : Not available.
- Partition coefficient: n-octanol/ water** : Not available.
- Auto-ignition temperature** : Not available.
- VOC content** : 0 % (w/w)

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.



SECTION 10: Stability and reactivity

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-hydrobromic acid	LD50 Oral	Rat	>2000 mg/kg	-
	LC50 Inhalation Gas.	Rat	2858 ppm	1 hours

Conclusion/Summary : Not available.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-	Skin - Mild irritant	Rabbit	-	672 hours 2 Grams	-

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Hydrobromic acid	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : Not known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics



SECTION 11: Toxicological information

- Inhalation** : No specific data.
- Ingestion** : Adverse symptoms may include the following:
stomach pains
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

- Conclusion/Summary** : Not available.
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Other information** : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-	Acute LC50 >100 mg/l	Fish	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.



SECTION 12: Ecological information

12.5 Results of PBT and vPvB assessment

- PBT** : Not applicable.
vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
Additional information	-	-	-

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 14: Transport information

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Europe inventory : Not determined.

National regulations

Austria

Belgium

Bulgaria

Croatia

Czech Republic

Denmark

Estonia

Finland

France

Germany

Hazard class for water : Appendix No. 4

Greece

Hungary

Ireland

Italy

Latvia

Lithuania

Netherlands

Norway

Poland

Portugal

Romania

Slovakia

Slovenia

Spain

Sweden

Switzerland

Turkey

United Kingdom (UK)



SECTION 15: Regulatory information

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

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Notice to reader

☑ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

	Classification	Justification
	Eye Dam. 1, H318	Calculation method
Europe		
Full text of abbreviated H statements	: H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation.	
Full text of classifications [CLP/GHS]	: Eye Dam. 1, H318 Skin Corr. 1B, H314 STOT SE 3, H335	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN CORROSION/IRRITATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Full text of abbreviated R phrases	: R22- Harmful if swallowed. R34- Causes burns. R41- Risk of serious damage to eyes. R37- Irritating to respiratory system.	
Full text of classifications [DSD/DPD]	: C - Corrosive Xn - Harmful Xi - Irritant	

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Fernox SDS CLP Europe

