

Sicherheitsdatenblatt

Super Shampoo Concentrato



Sicherheitsdatenblatt vom 27/9/2024, Version 33

ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

1.1. Produktidentifikator

Kennzeichnung der Mischung:

Handelsname: Super Shampoo Concentrato

Handelscode: 8345

1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Empfohlene Verwendung:

Reinigungsmittel/zur Reinigung

Nicht empfohlene Verwendungen:

Empfohlene Verwendungen strikt einhalten.

1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Lieferant:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Sachkundigen Person verantwortlich vom Sicherheitsdatenblatt:

arexons@arexons.it

1.4. Notrufnummer

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Austrian emergency telephone number : Vergiftungsinformationszentrale (+43 1 406 43 43)

Giftnotruf Berlin: +49 30 30686700

Antigifcentrum Brussel: 80025500 (7 jours sur 7, 24 heures sur 24).

ABSCHNITT 2: Mögliche Gefahren

2.1. Einstufung des Stoffs oder Gemischs

Kriterien der EG Verordnung 1272/2008 (CLP):

⚠ Achtung, Skin Irrit. 2, Verursacht Hautreizungen.

⚠ Achtung, Eye Irrit. 2, Verursacht schwere Augenreizung.

Für die menschlichen Gesundheit und die Umwelt gefährliche physisch-chemische Auswirkungen:

Keine weiteren Risiken

2.2. Kennzeichnungselemente

Gefahrenpiktogramme:



Achtung

Gefahrenhinweise:

H315 Verursacht Hautreizungen.

H319 Verursacht schwere Augenreizung.

Sicherheitshinweise:

P101 Ist ärztlicher Rat erforderlich, Verpackung oder Kennzeichnungsetikett bereithalten.

P102 Darf nicht in die Hände von Kindern gelangen.

P103 Lesen Sie sämtliche Anweisungen aufmerksam und befolgen Sie diese.

P264 Nach Gebrauch Hände gründlich waschen.

P280 Schutzhandschuhe/Schutzkleidung und Augenschutz/Gesichtsschutz tragen.

Sicherheitsdatenblatt

Super Shampoo Concentrato



P305+P351+P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.

Spezielle Vorschriften:

PACK1 Die Packung muss für Kinder unzugänglich aufbewahrt werden.

PACK2 Die Verpackung muss eine Gefahrenanzeige in Blindenschrift aufweisen.

EUH208 Enthält 1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on. Kann allergische Reaktionen hervorrufen.

Enthält

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated

Besondere Regelungen gemäß Anhang XVII der REACH-Verordnung nachfolgenden Änderungen:
Keine

Verordnung (EG) Nr. 648/2004 (Detergenzien).

Produktinhaltsstoffe:

Nichtionische Tenside

< 5 %

Anionische Tenside

5 - 15 %

Konservierungsstoffe:

1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on, Laurylamine
Dipropylenediamine, Pyridin-2-thiol-1-oxid, Natriumsalz

2.3. Sonstige Gefahren

Keine PBT-, vPvB-Stoffe oder endokrine Disruptoren in Konzentrationen ≥ 0.1 %:

Weitere Risiken:

Keine weiteren Risiken

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

3.1. Stoffe

N.A.

3.2. Gemische

Gefährliche Bestandteile gemäß der CLP-Verordnung und dazugehörige Einstufung:

Menge	Name	Identifikationsnummer		Klassifikation
$\geq 12,5\%$ - < 15%	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	CAS:	85536-14-7	⚠ 3.1/4/Oral Acute Tox. 4 H302
		EC:	287-494-3	⚠ 3.2/1C Skin Corr. 1C H314
		REACH No.:	01- 2119490234 -40	4.1/C3 Aquatic Chronic 3 H412
$\geq 1\%$ - < 2%	Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated	CAS:	68891-38-3	⚠ 3.3/1 Eye Dam. 1 H318
		EC:	500-234-8	⚠ 3.2/2 Skin Irrit. 2 H315
		REACH No.:	01- 2119488639 -16	4.1/C3 Aquatic Chronic 3 H412
		Spezifische Konzentrationsgrenzwerte: 5% $\leq$ C < 10%: Eye Irrit. 2 H319 C $\geq$ 10%: Eye Dam. 1 H318		
$\geq 0,02\%$ - < 0,05%	2,2'-Iminodiethanol; Diethanolamin	Index- Nummer:	603-071-00-1	⚠ 3.1/4/Oral Acute Tox. 4 H302
		CAS:	111-42-2	⚠ 3.9/2 STOT RE 2 H373
		EC:	203-868-0	⚠ 3.2/2 Skin Irrit. 2 H315
		⚠ 3.3/1 Eye Dam. 1 H318 4.1/C3 Aquatic Chronic 3 H412		
$\geq 0,01\%$ - < 0,02%	1,2-Benzisothiazol- 3(2H)-on; 1,2- Benzisothiazolin-3-on	Index- Nummer:	613-088-00-6	⚠ 3.1/4/Oral Acute Tox. 4 H302
		CAS:	2634-33-5	⚠ 3.1/2/Inhal Acute Tox. 2 H330
		⚠ 3.2/2 Skin Irrit. 2 H315		

Sicherheitsdatenblatt Super Shampoo Concentrato



		EC: 220-120-9	3.4.2/1A Skin Sens. 1A H317 3.3/1 Eye Dam. 1 H318 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410 Spezifische Konzentrationsgrenzwerte: C >= 0,036%: Skin Sens. 1A H317 Schätzung Akuter Toxizität: ATE - Oral 450 mg/kg KG ATE - Einatmen (Stäube/Nebel) 0,21 mg/l
>= 0,001% - < 0,005%	1-Methoxy-2-propanol; Monopropylenglycolmethylether	Index-Nummer: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 REACH No.: 01-2119457435-35	2.6/3 Flam. Liq. 3 H226 3.8/3 STOT SE 3 H336

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

4.1. Beschreibung der Erste-Hilfe-Maßnahmen

Nach Hautkontakt:

Verunreinigte Kleidung sofort ausziehen.
 Körperbereiche, die mit dem Produkt in Kontakt getreten sind, bzw. bei denen dieser Verdacht besteht, müssen sofort mit viel fließendem Wasser und möglichst mit Seife gewaschen werden. Den Körper vollständig waschen (Dusche oder Bad).
 Die kontaminierten Kleidungsstücke sofort ablegen und sie auf sichere Weise entsorgen.
 Im Falle von Hautkontakt sofort mit reichlich Wasser und Seife waschen.

Nach Augenkontakt:

Im Falle von Augenkontakt die Augen über einen ausreichenden Zeitraum mit Wasser spülen und die Augenlider offen halten; sofort einen Augenarzt konsultieren.
 Das unverletzte Auge schützen.

Nach Verschlucken:

Auf keinen Fall Erbrechen herbeiführen. SOFORT ARZT ZUZIEHEN.

Nach Einatmen:

Den Verletzten ins Freie bringen, ihn ausruhen lassen und warm halten.

4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Keine

4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Im Falle eines Unfalls bzw. bei Unwohlsein sofort einen Arzt konsultieren (wenn möglich, die Bedienungsanleitung bzw. das Sicherheitsdatenblatt vorzeigen).

Behandlung:

Keine

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

5.1. Löschmittel

Geeignete Löschmittel:

Mit Kohlendioxid.

Mit Pulver.

Schaum

Wassernebel.

Löschmittel nicht empfohlen:

Keine direkten Wasserstrahlen benutzen

5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

8345/33

Seite Nr. 3 von 13

Sicherheitsdatenblatt

Super Shampoo Concentrato



Die Explosions- bzw. Verbrennungsgase nicht einatmen.

Durch die Verbrennung entsteht ein dichter Rauch.

5.3. Hinweise für die Brandbekämpfung

Normale Brandbekämpfungskleidung, z. B. Pressluftatmer mit offenem Reislaufl (EN 137), flammhemmender Anzug (EN469), flammhemmende Handschuhe (EN 659) und Stiefel für Feuerwehrleute (HO A29 oder A30).

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Die persönliche Schutzausrüstung tragen.

Die Personen an einen sicheren Ort bringen.

Die in Punkt 7 und 8 aufgeführten Schutzmaßnahmen beachten.

6.2. Umweltschutzmaßnahmen

Das Eindringen in den Boden/Unterboden verhindern. Das Abfließen in das Grundwasser oder in die Kanalisation verhindern.

Das kontaminierte Waschwasser auffangen und entsorgen.

Bei Austritt von Gas oder bei Eintritt in Wasserläufe, den Boden oder die Kanalisation die zuständigen Behörden informieren.

Geeignetes Material zum Auffangen: absorbierende oder organische Materialien, Sand

6.3. Methoden und Material für Rückhaltung und Reinigung

Reinigung:

Flammen und/oder Funken bei Leckagen und Abfallmaterial vermeiden. Nicht rauchen. Bei Verschütten

größerer Mengen eindämmen, aufnehmen und für die Entsorgung in geeignete Behälter schaufeln. Bei

kleineren Mengen mit saugfähigem Material eindämmen. Verschmutztes Material in geeignete Behälter

geben. Entsorgung von verschmutztem Material in Übereinstimmung mit den örtlichen oder landesweiten

Bestimmungen.

6.4. Verweis auf andere Abschnitte

Siehe auch die Abschnitte 8 und 13

ABSCHNITT 7: Handhabung und Lagerung

7.1. Schutzmaßnahmen zur sicheren Handhabung

Haut- und Augenkontakt sowie das Einatmen von Dämpfen vermeiden.

Keine leeren Behälter verwenden, bevor diese nicht gereinigt wurden.

Vor dem Umfüllen sicherstellen, dass sich in den Behältern keine Reste inkompatibler Stoffe befinden.

Für die empfohlenen Schutzausrüstungen wird auf Abschnitt 8 verwiesen.

Kontaminierte Kleidungsstücke müssen vor dem Eintritt in Speiseräume gewechselt werden.

Während der Arbeit nicht essen oder trinken.

7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Nur im Originalbehälter aufbewahren.

Lebensmittel, Getränke und Tiernahrung fern halten.

Kein spezifischer.

Angaben zu den Lagerräumen:

Ausreichende Belüftung der Räume.

7.3. Spezifische Endanwendungen

Kein besonderer Verwendungszweck

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

Sicherheitsdatenblatt

Super Shampoo Concentrato



8.1. Zu überwachende Parameter

2,2'-Iminodiethanol; Diethanolamin - CAS: 111-42-2

ACGIH - TWA(8h): 1 mg/m³ - Anmerkungen: (IFV), Skin, A3 - Liver and kidney dam

1-Methoxy-2-propanol; Monopropylenglycolmethylether - CAS: 107-98-2

EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 563 mg/m³, 150 ppm - Anmerkungen: Skin

ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Anmerkungen: A4 - Eye and URT irr

DNEL-Expositionsgrenzwerte

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - CAS: 85536-14-7

Arbeitnehmer Industrie: 7.6 mg/m³ - Verbraucher: 1.3 mg/m³ - Exposition: Mensch -

Inhalation - Häufigkeit: Langfristig, systemische Auswirkungen

Verbraucher: 0.425 mg/kg - Exposition: Mensch - oral - Häufigkeit: Langfristig,

systemische Auswirkungen

Arbeitnehmer Industrie: 119 mg/kg - Verbraucher: 42.5 mg/kg - Exposition: Mensch -

dermal - Häufigkeit: Langfristig, systemische Auswirkungen

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS:

68891-38-3

Verbraucher: 15 mg/kg - Exposition: Mensch - oral - Häufigkeit: Langfristig, systemische
Auswirkungen

Arbeitnehmer Gewerbe: 175 mg/m³ - Verbraucher: 52 mg/m³ - Exposition: Mensch -

Inhalation - Häufigkeit: Langfristig, systemische Auswirkungen

Arbeitnehmer Gewerbe: 2750 mg/kg - Verbraucher: 1650 mg/kg - Exposition: Mensch -

dermal - Häufigkeit: Langfristig, systemische Auswirkungen

Arbeitnehmer Gewerbe: 0.132 03 - Verbraucher: 0.079 03 - Exposition: Mensch - dermal -

Häufigkeit: Langfristig, lokale Auswirkungen

1-Methoxy-2-propanol; Monopropylenglycolmethylether - CAS: 107-98-2

Verbraucher: 3.3 mg/kg - Exposition: Mensch - oral - Häufigkeit: Langfristig, systemische
Auswirkungen

Arbeitnehmer Gewerbe: 369 mg/m³ - Verbraucher: 43.9 mg/m³ - Exposition: Mensch -

Inhalation - Häufigkeit: Langfristig, systemische Auswirkungen

Arbeitnehmer Gewerbe: 50.6 mg/kg - Verbraucher: 18.1 mg/kg - Exposition: Mensch -

dermal - Häufigkeit: Langfristig, systemische Auswirkungen

Arbeitnehmer Gewerbe: 553.5 mg/m³ - Exposition: Mensch - Inhalation - Häufigkeit:

Kurzfristig, lokale Auswirkungen

PNEC-Expositionsgrenzwerte

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - CAS: 85536-14-7

Ziel: Süßwasser - Wert: 0.268 mg/l

Ziel: Meerwasser - Wert: 0.027 mg/l

Ziel: 09 - Wert: 3.43 mg/l

Ziel: Flußsediment - Wert: 8.1 mg/kg

Ziel: Meerwasser-Sedimente - Wert: 6.8 mg/kg

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS:

68891-38-3

Ziel: Süßwasser - Wert: 0.24 mg/l

Ziel: Meerwasser - Wert: 0.024 mg/l

Ziel: Flußsediment - Wert: 0.917 mg/kg

Ziel: Meerwasser-Sedimente - Wert: 0.092 mg/kg

Ziel: 09 - Wert: 10000 mg/l

1-Methoxy-2-propanol; Monopropylenglycolmethylether - CAS: 107-98-2

Ziel: Süßwasser - Wert: 10 mg/l

Ziel: Flußsediment - Wert: 52.3 mg/kg

Ziel: Meerwasser - Wert: 1 mg/l

Ziel: Meerwasser-Sedimente - Wert: 5.2 mg/kg

Ziel: Boden (Landwirtschaft) - Wert: 4.59 mg/l

8.2. Begrenzung und Überwachung der Exposition

Augenschutz:

Sicherheitsbrille

Entspricht EN 166

Hautschutz:

8345/33

Seite Nr. 5 von 13

Sicherheitsdatenblatt

Super Shampoo Concentrato



Schutzkleidung
 Handschutz:
 Handschuhe aus Nitril oder Viton.
 Gemäß EN 374.
 Dicke: Manschette 0,10 mm; Handfläche 0,12 mm; Finger 0,145 mm
 Atemschutz:
 Verwenden Sie ein geeignetes Atemschutzgerät.
 Wärmerisiken:
 Keine
 Kontrollen der Umweltexposition:
 Keine
 Geeignete technische Massnahmen:
 Keine

ABSCHNITT 9: Physikalische und chemische Eigenschaften

9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Eigenschaft	Wert	Methode:	Anmerkungen
Aggregatzustand:	flüssig	--	--
Farbe:	grün	--	--
Geruch:	charakteristisch	--	--
Schmelzpunkt/ Gefrierpunkt:	N.A.	--	--
Siedepunkt oder Siedebeginn und Siedebereich:	>100°C	ASTM D2887	--
Entzündbarkeit:	N.A.	--	--
Untere und obere Explosionsgrenze:	N.A.	--	--
Flammpunkt:	not flammable	IP 170	--
Selbstentzündungstemperatur:	N.A.	--	--
Zerfalltemperatur:	N.A.	--	--
pH:	7.0	ASTM D1287	--
Kinematische Viskosität:	N.A.	--	--
Wasserlöslichkeit:	löslich	--	--
Löslichkeit in Öl:	N.A.	--	--
Verteilungskoeffizient n- Oktanol/Wasser (log- Wert):	N.A.	--	--
Dampfdruck:	N.A.	--	--

Sicherheitsdatenblatt

Super Shampoo Concentrato



Dichte und/oder relative Dichte:	1.29 g/cm ³	09	--
Relative Dampfdichte:	N.A.	--	--
Partikeleigenschaften:			
Teilchengröße:	N.A.	--	--
9.2. Sonstige Angaben Keine weiteren relevanten Informationen			
Viskosität:	1800 cP	Brookfield (G3	V10)

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ABSCHNITT 10: Stabilität und Reaktivität

10.1. Reaktivität

Stabil unter Normalbedingungen

10.2. Chemische Stabilität

Stabil unter Normalbedingungen

10.3. Möglichkeit gefährlicher Reaktionen

Kann unter Einwirkung von Dithiokarbamaten, Mercaptanen und weiteren organischen Sulfiden, elementaren Metallen (Alkali- und Erdalkalimetallen), Pulverlegierungen, Dämpfen, starken Reduktionsmitteln entflammbare Gase bilden.

Kann unter Einwirkung von anorganischen Fluoriden, halogenierten organischen Stoffen, Sulfiden, Nitriden, Nitrilen, organischen Phosphaten, Phosphothioaten, Phosphodithioaten, starken Oxydationsmitteln giftige Gase bilden.

Kann sich unter Einwirkung von Dithiokarbamaten, elementaren Metallen (Alkali- und Erdalkalimetallen, Pulverlegierungen, Dämpfen, Platten oder Stangen), Nitriden entzünden.

10.4. Zu vermeidende Bedingungen

Unter normalen Umständen stabil.

10.5. Unverträgliche Materialien

Keine spezifische.

10.6. Gefährliche Zersetzungsprodukte

Keine.

ABSCHNITT 11: Toxikologische Angaben

11.1. Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Toxikologische Informationen zum Produkt:

SUPER SHAMPOO CONCENTRATO ML 1000

a) akute Toxizität

Nicht klassifiziert

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

b) Ätz-/Reizwirkung auf die Haut

Das Produkt ist eingestuft: Skin Irrit. 2 H315

Test: oecd 8 - Weg: Haut - Spezies: RHE 61.31 % - Laufzeit: 1h - Anmerkungen: not corrosive - Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Test: oecd 8 - Weg: Haut - Spezies: RHE 91.33 % - Laufzeit: 3min - Anmerkungen: not corrosive - Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

c) schwere Augenschädigung/-reizung

Das Produkt ist eingestuft: Eye Irrit. 2 H319

Test: oecd 9 - Weg: EYE - Spezies: BCOP 12.98 - Anmerkungen: not corrosive - Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

d) Sensibilisierung der Atemwege/Haut

Nicht klassifiziert

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Sicherheitsdatenblatt Super Shampoo Concentrato



- e) Keimzell-Mutagenität
Nicht klassifiziert
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- f) Karzinogenität
Nicht klassifiziert
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- g) Reproduktionstoxizität
Nicht klassifiziert
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- h) spezifische Zielorgan-Toxizität bei einmaliger Exposition
Nicht klassifiziert
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- i) spezifische Zielorgan-Toxizität bei wiederholter Exposition
Nicht klassifiziert
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- j) Aspirationsgefahr
Nicht klassifiziert
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Toxikologische Informationen zu den Hauptbestandteilen des Produkts:

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - CAS: 85536-14-7

- a) akute Toxizität:
Test: STA - Weg: Oral 510.2 mg/kg
Test: LD50 - Weg: Oral - Spezies: Ratte > 300-2000 mg/kg - Die Einstufung erfolgt anhand der Einstufung der Komponenten
Test: LD50 - Weg: Haut - Spezies: Ratte > 2000 mg/kg
- b) Ätz-/Reizwirkung auf die Haut:
Test: OECD TG 404 - Weg: Haut - Spezies: Kaninchen Positiv - Die Einstufung erfolgt anhand der Einstufung der Komponenten
- c) schwere Augenschädigung/-reizung:
Test: OECD TG 405 - Weg: EYE - Spezies: Kaninchen Positiv - Die Einstufung erfolgt anhand der Einstufung der Komponenten
- d) Sensibilisierung der Atemwege/Haut:
Test: Sensibilisierung der Haut - Spezies: IND Negativ
- g) Reproduktionstoxizität:
Test: NOAEL - Weg: Oral - Spezies: Ratte 350 mg/kg
Test: arx1 - Spezies: Ratte 300 mg/kg
- i) spezifische Zielorgan-Toxizität bei wiederholter Exposition:
Test: NOAEL - Spezies: Ratte 85 mg/kg
Test: LOAEL - Spezies: Ratte 145 mg/kg

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS: 68891-38-3

- a) akute Toxizität:
Test: LD50 - Weg: Oral > 2870 mg/kg
Test: LD50 - Weg: Haut > 2000 mg/kg
- 2,2'-Iminodiethanol; Diethanolamin - CAS: 111-42-2

- a) akute Toxizität:
Test: LD50 - Weg: Oral 710 mg/kg
Test: LD50 - Weg: Haut 12200 mg/kg
- 1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on - CAS: 2634-33-5

- a) akute Toxizität
ATE - Oral 450 mg/kg KG
ATE - Einatmen (Stäube/Nebel) 0,21 mg/l
Test: LD50 - Weg: Oral - Spezies: Ratte 1193 mg/kg
Test: LD50 - Weg: Haut - Spezies: Ratte 4115 mg/kg

- b) Ätz-/Reizwirkung auf die Haut:
Test: Reizt die Haut Positiv
- c) schwere Augenschädigung/-reizung:
Test: Ätzend für die Augen Positiv

Sicherheitsdatenblatt

Super Shampoo Concentrato



d) Sensibilisierung der Atemwege/Haut:

Test: Sensibilisierung der Haut - Weg: Haut Positiv

1-Methoxy-2-propanol; Monopropylenglycolmethylether - CAS: 107-98-2

a) akute Toxizität:

Test: LD50 - Weg: Oral 5300 mg/kg

Test: LD50 - Weg: Haut 13000 mg/kg

Test: LD50 - Weg: Einatmen 54.6 mg/l - Laufzeit: 4h

11.2. Angaben über sonstige Gefahren

Endokrinschädliche Eigenschaften:

Keine endokrinen Disruptoren in Konzentrationen ≥ 0.1 %.

ABSCHNITT 12: Umweltbezogene Angaben

12.1. Toxizität

Im Einklang mit der GLP verwenden, nicht herumliegen lassen.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - CAS: 85536-14-7

a) Akute aquatische Toxizität:

Endpunkt: LC50 - Spezies: Fische > 1 -10 mg/l - Dauer / h: 96

Endpunkt: EC50 - Spezies: Daphnia > 1 -10 mg/l - Dauer / h: 48

b) Chronische aquatische Toxizität:

Endpunkt: NOEC - Spezies: Fische 1 mg/l - Dauer / h: 672

Endpunkt: NOEC - Spezies: Daphnia > 1 -10 mg/l - Dauer / h: 768

Endpunkt: NOEC - Spezies: Algen > 4 mg/l - Dauer / h: 672

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS: 68891-38-3

a) Akute aquatische Toxizität:

Endpunkt: LC50 - Spezies: Fische 7.1 mg/l - Dauer / h: 96

Endpunkt: EC50 - Spezies: Daphnia 7.4 mg/l - Dauer / h: 48

Endpunkt: EC50 - Spezies: Algen 27.7 mg/l - Dauer / h: 72

b) Chronische aquatische Toxizität:

Endpunkt: NOEC - Spezies: Fische 0.14 mg/l - Dauer / h: 672

Endpunkt: NOEC - Spezies: Daphnia 0.27 mg/l - Dauer / h: 504

Endpunkt: NOEC - Spezies: Algen 0.95 mg/l - Dauer / h: 72

1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on - CAS: 2634-33-5

a) Akute aquatische Toxizität:

Endpunkt: LC50 - Spezies: Fische 2.18 mg/l - Dauer / h: 96

Endpunkt: EC50 - Spezies: Daphnia 2.94 mg/l - Dauer / h: 48

Endpunkt: CE6 - Spezies: Algen 0.11 mg/l - Dauer / h: 72

12.2. Persistenz und Abbaubarkeit

Keine

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - CAS: 85536-14-7

Biologische Abbaubarkeit: Schnell abbaubar - Test: OECD TG 301 A - Dauer / h: 28gg - %: 70

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated - CAS: 68891-38-3

Biologische Abbaubarkeit: Schnell abbaubar

1,2-Benzisothiazol-3(2H)-on; 1,2-Benzisothiazolin-3-on - CAS: 2634-33-5

Biologische Abbaubarkeit: Schnell abbaubar - Test: BIOGDG06

1-Methoxy-2-propanol; Monopropylenglycolmethylether - CAS: 107-98-2

Biologische Abbaubarkeit: Schnell abbaubar

12.3. Bioakkumulationspotenzial

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - CAS: 85536-14-7

Bioakkumulation: Nicht bioakkumulierbar - Test: arx01

12.4. Mobilität im Boden

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - CAS: 85536-14-7

Test: Koc 2500

12.5. Ergebnisse der PBT- und vPvB-Beurteilung

Sicherheitsdatenblatt

Super Shampoo Concentrato



- vPvB-Stoffe: Keine - PBT-Stoffe: Keine
- 12.6. Endokrinschädliche Eigenschaften
Keine endokrinen Disruptoren in Konzentrationen ≥ 0.1 %.
- 12.7. Andere schädliche Wirkungen
Keine

ABSCHNITT 13: Hinweise zur Entsorgung

- 13.1. Verfahren der Abfallbehandlung
Nach Möglichkeit wiederverwerten. Entsprechend den geltenden örtlichen und nationalen Bestimmungen vorgehen.
- Zusatzinformationen zur Entsorgung:
"Gemäß guter Arbeitspraxis verwenden und eine Verbreitung in der Umwelt vermeiden.
Das Produkt nicht in die Kanalisation, Rohrgräben oder Wasserläufe entladen. Die geltenden gesetzlichen Bestimmungen zum Schutz von Wasser und Boden vor Verschmutzung beachten (it. Gesetzesdekret Nr. 152 vom 3.4.2006).
Das gebrauchte Produkt und die Behälter durch Übergabe an autorisierte Unternehmen gemäß den Bestimmungen des it. Gesetzesdekrets Nr. 152/2006 entsorgen (Konsolidiertes Umweltgesetz, das das Ronchi-Dekret ersetzt) in seiner geänderten Fassung.
Das gebrauchte Produkt ist als Sonderabfall zu betrachten, der gemäß der Richtlinie 2008/98/EG über Abfälle und ähnliches einzustufen ist. Wenn möglich, wiederverwerten. An autorisierte Entsorgungseinrichtungen senden oder unter kontrollierten Bedingungen verbrennen (152/2006 Art. 184).
Gemäß den geltenden örtlichen und nationalen Bestimmungen verfahren.
Die kontaminierten Verpackungen müssen weitmöglichst entleert werden. Nach der Reinigung muss das Produkt bei einer zugelassenen Stelle recycelt oder eliminiert werden."

ABSCHNITT 14: Angaben zum Transport

- 14.1. UN-Nummer oder ID-Nummer
Kein Gefahrgut im Sinne der Transportvorschriften.
- 14.2. Ordnungsgemäße UN-Versandbezeichnung
N.A.
- 14.3. Transportgefahrenklassen
N.A.
- 14.4. Verpackungsgruppe
N.A.
- 14.5. Umweltgefahren
ADR-Umweltbelastung: Nein
IMDG-Marine pollutant: Nein
- 14.6. Besondere Vorsichtsmaßnahmen für den Verwender
N.A.
- 14.7. Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten
N.A.

ABSCHNITT 15: Rechtsvorschriften

- 15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch
RL 98/24/EG (Schutz von Gesundheit und Sicherheit der Arbeitnehmer vor der Gefährdung durch chemische Arbeitsstoffe bei der Arbeit)
RL 2000/39/EG (Arbeitsplatz-Richtgrenzwerte)
Verordnung (EG) Nr. 1907/2006 (REACH)

Sicherheitsdatenblatt

Super Shampoo Concentrato



Verordnung (EG) Nr. 1272/2008 (CLP)
Verordnung (EG) Nr. 790/2009 (1. ATP CLP) und (EU) Nr. 758/2013
Verordnung (EU) Nr. 2020/878
Verordnung (EU) Nr. 286/2011 (2. ATP CLP)
Verordnung (EU) Nr. 618/2012 (3. ATP CLP)
Verordnung (EU) Nr. 487/2013 (4. ATP CLP)
Verordnung (EU) Nr. 944/2013 (5. ATP CLP)
Verordnung (EU) Nr. 605/2014 (6. ATP CLP)
Verordnung (EU) Nr. 2015/1221 (7. ATP CLP)
Verordnung (EU) Nr. 2016/918 (8. ATP CLP)
Verordnung (EU) Nr. 2016/1179 (9. ATP CLP)
Verordnung (EU) Nr. 2017/776 (10. ATP CLP)
Verordnung (EU) Nr. 2018/669 (11. ATP CLP)
Verordnung (EU) Nr. 2018/1480 (13. ATP CLP)
Verordnung (EU) Nr. 2019/521 (12. ATP CLP)
Verordnung (EU) Nr. 2020/217 (14. ATP CLP)
Verordnung (EU) Nr. 2020/1182 (15. ATP CLP)
Verordnung (EU) Nr. 2021/643 (16. ATP CLP)
Verordnung (EU) Nr. 2021/849 (17. ATP CLP)
Verordnung (EU) Nr. 2022/692 (18. ATP CLP)

Beschränkungen zum Produkt oder zu den Inhaltsstoffen gemäß Anhang XVII der Verordnung (EG) 1907/2006 (REACH) und nachfolgenden Änderungen:

Beschränkungen zum Produkt:

Beschränkung 3

Beschränkungen zu den Inhaltsstoffen gemäß:

Beschränkung 40

Beschränkung 75

Flüchtige Organische Verbindung - FOV = 0.01 %

Flüchtige Organische Verbindung - FOV = 0.12 g/Kg

Flüchtige Organische Verbindung - FOV = 0.12 g/l

Wo möglich auf die folgenden Normen Bezug nehmen:

Richtlinie EU 2012/18 (Seveso III)

Verordnung (EG) Nr. 648/2004 (Detergenzien).

RL 2004/42/EG (FOV Richtlinie)

Anordnungen zu der Richtlinie EU 2012/18 (Seveso III):

Seveso III Kategorie gemäß dem Anhang 1, Teil 1

Keine

15.2. Stoffsicherheitsbeurteilung

Keine Stoffsicherheitsbeurteilung wurde durchgeführt für das Gemisch

Stoffe, für die eine Stoffsicherheitsbeurteilung durchgeführt worden ist:

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated

ABSCHNITT 16: Sonstige Angaben

Text der verwendeten Sätze im Absatz 3:

H302 Gesundheitsschädlich bei Verschlucken.

H314 Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

H318 Verursacht schwere Augenschäden.

H315 Verursacht Hautreizungen.

H319 Verursacht schwere Augenreizung.

H373 Kann die Organe schädigen bei längerer oder wiederholter Exposition.

H330 Lebensgefahr bei Einatmen.

H317 Kann allergische Hautreaktionen verursachen.

Sicherheitsdatenblatt Super Shampoo Concentrato



H400 Sehr giftig für Wasserorganismen.
H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.
H226 Flüssigkeit und Dampf entzündbar.
H336 Kann Schläfrigkeit und Benommenheit verursachen.

Gefahrenklasse und Gefahrenkategorie	Code	Beschreibung
Flam. Liq. 3	2.6/3	Entzündbare Flüssigkeiten, Kategorie 3
Acute Tox. 2	3.1/2/Inhal	Akute Toxizität (inhalativ), Kategorie 2
Acute Tox. 4	3.1/4/Oral	Akute Toxizität (oral), Kategorie 4
Skin Corr. 1C	3.2/1C	Verätzung der Haut, Kategorie 1C
Skin Irrit. 2	3.2/2	Reizung der Haut, Kategorie 2
Eye Dam. 1	3.3/1	Schwere Augenschädigung, Kategorie 1
Eye Irrit. 2	3.3/2	Reizung der Augen, Kategorie 2
Skin Sens. 1A	3.4.2/1A	Sensibilisierung der Haut, Kategorie 1A
STOT SE 3	3.8/3	Spezifische Zielorgan-Toxizität (einmalige Exposition), Kategorie 3
STOT RE 2	3.9/2	Spezifische Zielorgan-Toxizität (wiederholte Exposition), Kategorie 2
Aquatic Acute 1	4.1/A1	Akut gewässergefährdend, Kategorie 1
Aquatic Chronic 1	4.1/C1	Chronisch (langfristig) gewässergefährdend, Kategorie 1
Aquatic Chronic 3	4.1/C3	Chronisch (langfristig) gewässergefährdend, Kategorie 3

Modifikation der Paragraphen seit der letzten Revision:

ABSCHNITT 2: Mögliche Gefahren
ABSCHNITT 9: Physikalische und chemische Eigenschaften

Einstufung und Verfahren, das zum Ableiten der Einstufung von Gemischen gemäß Verordnung (EG) 1272/2008 [CLP] verwendet wurde:

Einstufung gemäß Verordnung (EG) Nr. 1272/2008	Einstufungsverfahren
Skin Irrit. 2, H315	Berechnungsmethode
Eye Irrit. 2, H319	Berechnungsmethode

Diese Unterlagen wurden von einem Fachmann mit entsprechender Ausbildung abgefasst.
Hauptsächliche Literatur:

ECDIN - Daten- und Informationsnetz über umweltrelevante Chemikalien - Vereinigtes Forschungszentrum, Kommission der Europäischen Gemeinschaft

Sicherheitsdatenblatt

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SAX's GEFÄHRLICHE EIGENSCHAFTEN VON INDUSTRIELLEN SUBSTANZEN - Achte
Auflage - Van Nostrand Reinold

Die vorstehenden Angaben stützen sich auf den heutigen Stand unserer Kenntnisse. Sie gelten nur für das angegebene Produkt und stellen keine Zusicherung von Eigenschaften dar.

Es obliegt dem Anwender die Zuständigkeit und die Vollständigkeit dieser Angaben für seine spezifische Anwendung zu kontrollieren.

Dieses Datenblatt ersetzt alle früheren Ausgaben.

ADR:	Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße
ATE:	Schätzung Akuter Toxizität
ATEGemisch:	Schätzwert der akuten Toxizität (Gemische)
CAS:	Chemical Abstracts Service (Abteilung der American Chemical Society)
CLP:	Einstufung, Verpackung und Kennzeichnung
DNEL:	Abgeleitetes Null-Effekt-Niveau (DNEL)
EINECS:	Europäisches Verzeichnis der auf dem Markt vorhandenen chemischen Stoffe
GefStoffVO:	Gefahrstoffverordnung
GHS:	Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien
IATA:	Internationale Flug-Transport-Vereinigung (IATA)
IATA-DGR:	Vorschriften über die Beförderung gefährlicher Güter der Internationalen Flug-Transport-Vereinigung (IATA)
ICAO:	Internationale Zivilluftfahrtorganisation (ICAO)
ICAO-TI:	Technische Anleitungen der Internationalen Zivilluftfahrtorganisation (ICAO)
IMDG:	Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffsverkehr (IMDG-Code)
INCI:	Internationale Nomenklatur für kosmetische Inhaltsstoffe (INCI)
KSt:	Explosions-Koeffizient
LC50:	Letale Konzentration für 50 Prozent der Testpopulation
LD50:	Letale Dosis für 50 Prozent der Testpopulation
NA:	Nicht anwendbar
PNEC:	Abgeschätzte Nicht-Effekt-Konzentration (PNEC-Wert)
RID:	Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr
STEL:	Grenzwert für Kurzzeiteexposition
STOT:	Zielorgan-Toxizität
TLV:	Arbeitsplatzgrenzwert
TWA:	Zeit gemittelte
WGK:	Wassergefährdungsklasse

Exposure Scenario, 20/08/2019

Substance identity	
Chemical name	BENZENESULFONIC ACID, SEC-C-10-13-ALKYL DERIVS, SODIUM SALTS T. anionico
CAS No.	85536-14-7
EINECS No.	287-494-3

Table of contents

1. **ES 1** Use at industrial site; Various products (PC24, PC35)
2. **ES 2** Widespread use by professional workers; Various products (PC3, PC39, PC24, PC35)
3. **ES 3** Consumer use; Washing and cleaning products (PC35)

1. ES 1 Use at industrial site; Various products (PC24, PC35)	
1.1 TITLE SECTION	
Exposure Scenario name	Cleaning agent
Date - Version	20/08/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)
Product Categories	Lubricants, greases, release products (PC24) - Washing and cleaning products (PC35)
Environment Contributing Scenario	
CS1 Covered by	ERC4
Worker Contributing Scenario	
CS2 Industrial	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13
1.2 Conditions of use affecting exposure	
1.2. CS1: Environment Contributing Scenario: Covered by (ERC4)	
Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
<i>Product (article) characteristics</i>	
Concentration of substance in product: Covers percentage substance in the product up to 25 %.	
<i>Amount used, frequency and duration of use (or from service life)</i>	
Amounts used: Daily amount per site 50 t	
Maximum allowable site tonnage (MSafe): 132657 kg	
Release type: Continuous release	
Emission days: 20 days per year	
<i>Conditions and measures related to sewage treatment plant</i>	
STP type: Municipal Sewage Treatment Plant Water - minimum efficiency of: = 88 %	
<i>Conditions and measures related to treatment of waste (including article waste)</i>	
Waste treatment External treatment and disposal of waste should comply with applicable local and/or national regulations.	
<i>Other conditions affecting environmental exposure</i>	
Local marine water dilution factor: 100 Local freshwater dilution factor: 10	
1.2. CS2: Worker Contributing Scenario: Industrial (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13)	
Process Categories	Mixing or blending in batch processes - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or

	processes with equivalent containment condition - Chemical production where opportunity for exposure arises - Industrial spraying - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Roller application or brushing - Treatment of articles by dipping and pouring (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13)
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Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 1E-06 hPa

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers use up to 1 events per day

Technical and organisational conditions and measures

Technical and organisational measures

Remove spills immediately

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Wear an impervious suit.

Use eye protection according to EN 166.

Other conditions affecting worker exposure

Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Ensure control measures are regularly inspected and maintained.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Covered by (ERC4)

Release route	Release rate	Release estimation method
Air	30 %	ESVOC SPERC 4.4a.v1
Water	0.01 %	ESVOC SPERC 4.4a.v1
soil	0.01 %	ESVOC SPERC 4.4a.v1

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.0058 mg/L	EUSES	0.0219

freshwater sediment	0.305 mg/kg dry weight	EUSES	0.0377
marine water	0.000752 mg/L	EUSES	0.028
marine sediment	0.039 mg/kg dry weight	EUSES	0.028
Air	< 1E-07 mg/m ³	EUSES	< 1E-06
soil	0.371 mg/kg dry weight	EUSES	0.0106
Sewage treatment plant	0.0304 mg/L	EUSES	0.00887

1.3. CS2: Worker Contributing Scenario: Industrial (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.0801 mg/m ³	ECETOC TRA worker v3	0.0688

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

2. ES 2		Widespread use by professional workers; Various products (PC3, PC39, PC24, PC35)	
2.1 TITLE SECTION			
Exposure Scenario name	Cleaning agent		
Date - Version	20/08/2019 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Air care products (PC3) - Cosmetics, personal care products (PC39) - Lubricants, greases, release products (PC24) - Washing and cleaning products (PC35)		
Environment Contributing Scenario			
CS1 Covered by	ERC8a		
Worker Contributing Scenario			
CS2 General use from professional operators	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC15 - PROC19		
2.2 Conditions of use affecting exposure			
2.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)			
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)		
<i>Product (article) characteristics</i>			
Concentration of substance in product: Covers percentage substance in the product up to 25 %.			
<i>Amount used, frequency and duration of use (or from service life)</i>			
Amounts used: Daily amount per site 0.014 t			
Maximum allowable site tonnage (MSafe): 19 kg			
Release type: Continuous release			
Emission days: 365 days per year			
<i>Conditions and measures related to treatment of waste (including article waste)</i>			
Waste treatment External treatment and disposal of waste should comply with applicable local and/or national regulations.			
<i>Other conditions affecting environmental exposure</i>			
Local marine water dilution factor: 100 Local freshwater dilution factor: 10			
2.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19)			
Process Categories	Mixing or blending in batch processes - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation		

in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Chemical production where opportunity for exposure arises - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Roller application or brushing - Non industrial spraying - Treatment of articles by dipping and pouring - Use as laboratory reagent - Manual activities involving hand contact (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 1E-06 hPa

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Technical and organisational conditions and measures

Technical and organisational measures

Remove spills immediately

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Wear an impervious suit.

Use eye protection according to EN 166.

Other conditions affecting worker exposure

Indoor use

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Ensure regular inspection, cleaning and maintenance of equipment and machines. Ensure control measures are regularly inspected and maintained.

2.3 Exposure estimation and reference to its source

2.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Release route	Release rate	Release estimation method
Air	0 %	N/A
Water	99 %	N/A
soil	1 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.024 mg/L	EUSES	0.0894
Air	< 1E-07 mg/m ³	EUSES	< 1E-06
marine water	0.0024 mg/L	EUSES	0.0898

marine sediment	0.608 mg/kg dry weight	EUSES	0.0898
freshwater sediment	6.08 mg/kg dry weight	EUSES	0.75
soil	0.187 mg/kg dry weight	EUSES	0.00534
Sewage treatment plant	0.007 mg/L	EUSES	0.00204

2.3. CS2: Worker Contributing Scenario: General use from professional operators (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.0801 mg/m ³	ECETOC TRA worker v3	0.0688

2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

3. ES 3 Consumer use; Washing and cleaning products (PC35)

3.1 TITLE SECTION

Exposure Scenario name	Cleaning agent
Date - Version	20/08/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Washing and cleaning products (PC35)

Environment Contributing Scenario

CS1 Covered by	ERC8a
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Consumer Contributing Scenario

CS2 Consumer	PC35 - PC35_1, PC8_1
CS3 Consumer	PC35 - PC8_2, PC35_2
CS4 Consumer	PC35 - PC8_3, PC35_3
CS5 Consumer	PC35
CS6 Consumer	PC35
CS7 Consumer	PC35
CS8 Consumer	PC35
CS9 Consumer	PC35
CS10 Consumer	PC35
CS11 Consumer	PC35
CS12 Consumer	PC35

3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
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Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site 0.239 t

Maximum allowable site tonnage (MSafe): 217 kg

Release type: Continuous release

Emission days: 365 days per year

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

External treatment and disposal of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

3.2. CS2: Consumer Contributing Scenario: Consumer (PC35)

Product Categories	Washing and cleaning products (PC35)
Product (Sub-)Categories	Laundry and dish washing products (PC35_1, PC8_1)

Product (article) characteristics

Physical form of product:

Liquid mixture

Concentration of substance in product:

Covers percentage substance in the product up to 1 %.

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 19 g

Frequency:

Covers use up to 104 times per year

3.2. CS3: Consumer Contributing Scenario: Consumer (PC35)

Product Categories	Washing and cleaning products (PC35)
Product (Sub-)Categories	Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) (PC8_2, PC35_2)

Product (article) characteristics

Physical form of product:

Liquid mixture

Concentration of substance in product:

Covers concentrations up to 14 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 0.65 g

Frequency:

Covers use up to 128 times per year

3.2. CS4: Consumer Contributing Scenario: Consumer (PC35)

Product Categories	Washing and cleaning products (PC35)
Product (Sub-)Categories	Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) (PC8_3, PC35_3)

Product (article) characteristics

Physical form of product:

Liquid mixture

Concentration of substance in product:

Covers concentrations up to 6.54E-05 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 0.00015 g

Duration:

Exposure duration 60 min

Frequency:

Covers use up to 426 times per year	
<i>Other conditions affecting consumers exposure</i>	
Indoor use Room size: Covers use in room size of 15 m ³ Ventilation rate: 2.5 Air changer per hour	
Additional conditions human health Covers skin contact area up to 1900 cm ²	
3.2. CS5: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid mixture	
Concentration of substance in product: Covers concentrations up to 0.23 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Frequency: Covers use up to 365 times per year	
<i>Other conditions affecting consumers exposure</i>	
Additional conditions human health Covers skin contact area up to 17600 cm ²	
3.2. CS6: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid mixture	
Concentration of substance in product: Covers concentrations up to 6 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Exposure duration 60 min	
Frequency: Covers use up to 365 times per year	
<i>Other conditions affecting consumers exposure</i>	
Indoor use Room size: Covers use in room size of 15 m ³ Ventilation rate: 2.5 Air changer per hour	
Additional conditions human health Covers skin contact area up to 1900 cm ²	
3.2. CS7: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid mixture	
Concentration of substance in product:	

Covers concentrations up to 30 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 0.00042 g	
Duration: Exposure duration 60 min	
Frequency: Covers use up to 365 times per year	
3.2. CS8: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid mixture	
Concentration of substance in product: Covers concentrations up to 14 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Exposure duration 10 min	
Frequency: Covers use up to 128 times per year	
<i>Other conditions affecting consumers exposure</i>	
Indoor use Room size: Covers use in room size of 15 m ³ Ventilation rate: 2 Air changer per hour	
Additional conditions human health Covers skin contact area up to 840 cm ²	
3.2. CS9: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid mixture	
Concentration of substance in product: Covers concentrations up to 14 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 0.65 g	
Frequency: Covers use up to 128 times per year	
<i>Other conditions affecting consumers exposure</i>	
Additional conditions human health Covers skin contact area up to 840 cm ²	
3.2. CS10: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	

Physical form of product: Liquid mixture	
Concentration of substance in product: Covers concentrations up to 10 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 0.2 g	
Duration: Exposure duration 60 min	
Frequency: Covers use up to 26 times per year	
<i>Other conditions affecting consumers exposure</i>	
Indoor use Room size: Covers use in room size of 15 m ³ Ventilation rate: 2.5 Air changer per hour Additional conditions human health Covers skin contact area up to 430 cm ²	
3.2. CS11: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid mixture	
Concentration of substance in product: Covers concentrations up to 2.2 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 260 g	
Duration: Exposure duration 25 min	
Frequency: Covers use up to 4 times per year	
<i>Other conditions affecting consumers exposure</i>	
Indoor use Room size: Covers use in room size of 10 m ³ Ventilation rate: 2 Air changer per hour Additional conditions human health Covers skin contact area up to 19000 cm ²	
3.2. CS12: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid mixture	
Concentration of substance in product: Covers concentrations up to 5 %	
<i>Amount used, frequency and duration of use/exposure</i>	

Amounts used:

Amount per use 880 g

Duration:

Exposure duration 240 min

Frequency:

Covers use up to 104 times per year

Other conditions affecting consumers exposure

Indoor use

Room size: Covers use in room size of 58 m³**Ventilation rate:** 0.5 Air changer per hour**Additional conditions human health**Covers skin contact area up to 19000 cm²

3.3 Exposure estimation and reference to its source

3.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Release route	Release rate	Release estimation method
Air	0 %	N/A
Water	99 %	N/A
soil	1 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.035 mg/L	EUSES	0.131
freshwater sediment	0.035 mg/kg dry weight	N/A	0.654
marine water	0.0035 mg/L	EUSES	0.131
marine sediment	0.53 mg/kg dry weight	N/A	0.0779
Air	< 1E-07 mg/m ³	EUSES	< 1E-06
soil	3.16 mg/kg dry weight	EUSES	0.0902
Sewage treatment plant	0.197 mg/L	N/A	0.0574

3.2. CS2: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.832 mg/kg bw/day	Consexpo v4.1	0.00979

3.2. CS3: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
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dermal, systemic, long-term	0.491 mg/kg bw/day	Consexpo v4.1	0.00578
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3.2. CS4: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.176 mg/kg bw/day	Consexpo v4.1	0.00207
inhalative, systemic, long-term	< 1E-06 mg/m ³	Consexpo v4.1	< 1E-06

3.2. CS5: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	28.3 mg/kg bw/day	Consexpo v4.1	0.333

3.2. CS6: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.0378 mg/kg bw/day	Consexpo v4.1	0.000445
inhalative, systemic, long-term	1.31E-05 mg/m ³	Consexpo v4.1	4E-06

3.2. CS7: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
oral, systemic, long-term	0.00194 mg/kg bw/day	Consexpo v4.1	0.00228

3.2. CS8: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.00174 mg/kg bw/day	Consexpo v4.1	2.1E-05
inhalative, systemic, long-term	1.31E-05 mg/kg bw/day	Consexpo v4.1	4E-06

3.2. CS9: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.491 mg/kg bw/day	Consexpo v4.1	0.00578

3.2. CS10: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.0219 mg/kg bw/day	Consexpo v4.1	0.000258
inhalative, systemic, long-term	1.9E-05 mg/m ³	Consexpo v4.1	< 1E-06

3.2. CS11: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.0704 mg/kg bw/day	Consexpo v4.1	0.000828
inhalative, systemic, long-term	< 1E-06 mg/m ³	Consexpo v4.1	< 1E-06

3.2. CS12: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	4.16 mg/kg bw/day	Consexpo v4.1	0.0489
inhalative, systemic, long-term	< 1E-06 mg/m ³	Consexpo v4.1	< 1E-06

3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Exposure Scenario, 08/02/2024

Substance identity	
Chemical name	Alcohols, C12-14, ethoxylated, sulfates, sodium salts 1-2,5 moles ethoxylated
CAS No.	68891-38-3
EINECS No.	500-234-8

Table of contents

1. **ES 1** Use at industrial site
2. **ES 2** Widespread use by professional workers
3. **ES 3** Widespread use by professional workers
4. **ES 4** Consumer use; Washing and cleaning products (PC35)

1. ES 1 Use at industrial site	
1.1 TITLE SECTION	
Exposure Scenario name	Car care and maintenance products
Date - Version	08/02/2024 - 2.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)
Environment Contributing Scenario	
CS1 Covered by	ERC4
Worker Contributing Scenario	
CS2 Industrial	PROC10
CS3 Industrial	PROC8a
CS4 Industrial	PROC4
CS5 Industrial	PROC7
1.2 Conditions of use affecting exposure	
1.2. CS1: Environment Contributing Scenario: Covered by (ERC4)	
Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
<i>Amount used, frequency and duration of use (or from service life)</i>	
Amounts used: Annual site tonnage 10 t(onnes)/year Release type: Continuous release Emission days: 20 days per year	
<i>Conditions and measures related to sewage treatment plant</i>	
STP type: Municipal Sewage Treatment Plant STP effluent (m³/day): 18000	
<i>Conditions and measures related to treatment of waste (including article waste)</i>	
Waste treatment External treatment and disposal of waste should comply with applicable local and/or national regulations.	
<i>Other conditions affecting environmental exposure</i>	
Local marine water dilution factor: 100 Local freshwater dilution factor: 10	

Receiving surface water flow: 2000 m³/h

1.2. CS2: Worker Contributing Scenario: Industrial (PROC10)

Process Categories	Roller application or brushing (PROC10)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers use up to 5 days per week

Other conditions affecting worker exposure

Indoor use
Industrial use

Additional conditions human health

Covers skin contact area up to 960 cm²

1.2. CS3: Worker Contributing Scenario: Industrial (PROC8a)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers use up to 5 days per week

Other conditions affecting worker exposure

Indoor use
Industrial use

Additional conditions human health

Covers skin contact area up to 960 cm²

1.2. CS4: Worker Contributing Scenario: Industrial (PROC4)

Process Categories	Chemical production where opportunity for exposure arises (PROC4)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers use up to 5 days per week

Other conditions affecting worker exposure

Indoor use
Industrial use

Additional conditions human health

Covers skin contact area up to 480 cm²

1.2. CS5: Worker Contributing Scenario: Industrial (PROC7)

Process Categories	Industrial spraying (PROC7)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 5 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration <= 4 h

Frequency:

Covers use up to 5 days per week

Other conditions affecting worker exposure

Indoor use

Industrial use

Ventilation rate: 30 %

Additional conditions human health

Covers skin contact area up to 1500 cm²

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Covered by (ERC4)

Release route	Release rate	Release estimation method
Water	2 %	N/A
Air	0 %	N/A
soil	5 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.116945 mg/L	N/A	0.487272
freshwater sediment	0.486471 mg/kg dry weight	N/A	0.089261
marine water	0.011676 mg/L	N/A	0.486485
marine sediment	0.048569 mg/kg dry weight	N/A	0.089117
soil	0.112922	N/A	0.015056
Sewage treatment plant	0.0632612 mg/L	N/A	7.9E-06

1.3. CS2: Worker Contributing Scenario: Industrial (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	27.429 mg/kg bw/day	N/A	0.009974
inhalative, systemic, long-term	147.917 mg/m ³	N/A	0.845238

combined routes	48.56 mg/kg bw/day	N/A	0.855212
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1.3. CS3: Worker Contributing Scenario: Industrial (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg bw/day	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	13.926 mg/kg bw/day	N/A	0.013439

1.3. CS4: Worker Contributing Scenario: Industrial (PROC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	8.571 mg/kg bw/day	N/A	0.003117
inhalative, systemic, long-term	124.25 mg/m ³	N/A	0.71
combined routes	26.321 mg/kg bw/day	N/A	0.713117

1.3. CS5: Worker Contributing Scenario: Industrial (PROC7)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	8.571 mg/kg bw/day	N/A	0.003117
inhalative, systemic, long-term	124.25 mg/m ³	N/A	0.71
combined routes	26.321 mg/kg bw/day	N/A	0.713117

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

2. ES 2 Widespread use by professional workers

2.1 TITLE SECTION

Exposure Scenario name	Car care and maintenance products
Date - Version	08/02/2024 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)

Environment Contributing Scenario

CS1 Covered by	ERC8a
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Worker Contributing Scenario

CS2 Covered by	PROC8a
CS3 Covered by	PROC4
CS4 Covered by	PROC10
CS5 Covered by	PROC11
CS6 Covered by	PROC11

2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
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Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 300 t(tonnes)/year
Daily amount per site 1644 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

	Air - minimum efficiency of: 100 % Water - minimum efficiency of: 100 %
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Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

2.2. CS2: Worker Contributing Scenario: Covered by (PROC8a)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 4 h

Frequency:

Use frequency 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

2.2. CS3: Worker Contributing Scenario: Covered by (PROC4)

Process Categories	Chemical production where opportunity for exposure arises (PROC4)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 4 h

Frequency:

Use frequency 5 days per week

Other conditions affecting worker exposure

Indoor use
Professional use

Additional conditions human health

Covers skin contact area up to 480 cm²

2.2. CS4: Worker Contributing Scenario: Covered by (PROC10)

Process Categories	Roller application or brushing (PROC10)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 4 h

Frequency:

Use frequency 5 days per week

Other conditions affecting worker exposure

Indoor use
Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

2.2. CS5: Worker Contributing Scenario: Covered by (PROC11)

Process Categories	Non industrial spraying (PROC11)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 4 h

Frequency:

Use frequency 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Ventilation rate: 30 %

Additional conditions human health

Covers skin contact area up to 1500 cm²

2.2. CS6: Worker Contributing Scenario: Covered by (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Duration:

Covers use up to > 4 h

Frequency:

Use frequency 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Ventilation rate: 30 %

Additional conditions human health

Covers skin contact area up to 1500 cm²

2.3 Exposure estimation and reference to its source

2.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.064084 mg/L	N/A	0.267015
freshwater sediment	0.266576 mg/kg dry weight	N/A	0.048913

marine water	0.006389 mg/L	N/A	0.266228
marine sediment	0.026579 mg/kg dry weight	N/A	0.048769
soil	0.106749 mg/kg dry weight	N/A	0.014233
Sewage treatment plant	0.103991 mg/L	N/A	1E-05

2.3. CS2: Worker Contributing Scenario: Covered by (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg dry weight	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	13.926 mg/kg dry weight	N/A	0.013439

2.3. CS3: Worker Contributing Scenario: Covered by (PROC4)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	6.857 mg/kg dry weight	N/A	0.002494
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	7.068 mg/kg dry weight	N/A	0.010946

2.3. CS4: Worker Contributing Scenario: Covered by (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	5.486 mg/kg dry weight	N/A	0.001995
inhalative, systemic, long-term	73.958 mg/m ³	N/A	0.422619
combined routes	16.051 mg/kg dry weight	N/A	0.424614

2.3. CS5: Worker Contributing Scenario: Covered by (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	21.429 mg/kg dry weight	N/A	0.007792

inhalative, systemic, long-term	59.167 mg/m ³	N/A	0.338095
combined routes	29.881 mg/kg dry weight	N/A	0.345887

2.3. CS6: Worker Contributing Scenario: Covered by (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	21.429 mg/kg dry weight	N/A	0.007792
inhalative, systemic, long-term	124.25 mg/m ³	N/A	0.71
combined routes	39.179 mg/kg dry weight	N/A	0.717792

2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

3. ES 3 Widespread use by professional workers

3.1 TITLE SECTION

Exposure Scenario name	Professional use of dishwash products
Date - Version	08/02/2024 - 3.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)

Environment Contributing Scenario

CS1 Covered by	ERC8a
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Worker Contributing Scenario

CS2 General use from professional operators	PROC8b
CS3 General use from professional operators	PROC1
CS4 General use from professional operators	PROC8a
CS5 General use from professional operators	PROC2
CS6 General use from professional operators	PROC10
CS7 General use from professional operators	PROC10

3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
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Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site 300 t(tonnes)/year
Daily amount per site 1644 kg/day

Release type: Continuous release

Emission days: 365 days per year

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

STP effluent (m³/day): 18000

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

External treatment and disposal of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 2000 m³/day

3.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC8b)

Process Categories	Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)
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Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

3.2. CS3: Worker Contributing Scenario: General use from professional operators (PROC1)

Process Categories	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)
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Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration > 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Additional conditions human healthCovers skin contact area up to 240 cm²**3.2. CS4: Worker Contributing Scenario: General use from professional operators (PROC8a)****Process Categories**

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

*Product (article) characteristics***Concentration of substance in product:**

Covers percentage substance in the product up to 25 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Application duration > 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Additional conditions human healthCovers skin contact area up to 960 cm²**3.2. CS5: Worker Contributing Scenario: General use from professional operators (PROC2)****Process Categories**

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

*Product (article) characteristics***Concentration of substance in product:**

Covers percentage substance in the product up to 25 %.

*Amount used, frequency and duration of use/exposure***Duration:**

Application duration > 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Additional conditions human healthCovers skin contact area up to 480 cm²**3.2. CS6: Worker Contributing Scenario: General use from professional operators (PROC10)****Process Categories**

Roller application or brushing (PROC10)

Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Application duration <= 4 h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

3.2. CS7: Worker Contributing Scenario: General use from professional operators (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 25 %.

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration 15 min/h

Frequency:

Covers frequency up to: 5 days per week

Other conditions affecting worker exposure

Indoor use

Professional use

Additional conditions human health

Covers skin contact area up to 960 cm²

3.3 Exposure estimation and reference to its source

3.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Release route	Release rate	Release estimation method
Water	100 %	N/A
Air	100 %	N/A
soil	0 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.064084 mg/L	N/A	6.156
freshwater sediment	mg/kg dry weight	N/A	33.607
marine water	0.006389 mg/L	N/A	6.175
marine sediment	0.026579	N/A	33.707
soil	0.106749 mg/kg dry weight	N/A	0.014233
Sewage treatment plant	0.103991 mg/L	N/A	1E-05

3.3. CS2: Worker Contributing Scenario: General use from professional operators (PROC8b)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg bw/day	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	13.926 mg/kg bw/day	N/A	0.013439

3.3. CS3: Worker Contributing Scenario: General use from professional operators (PROC1)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.034286 mg/kg bw/day	N/A	1.2E-05
inhalative, systemic, long-term	0.147917 mg/m ³	N/A	0.000845
combined routes	0.055417 mg/kg bw/day	N/A	0.000858

3.3. CS4: Worker Contributing Scenario: General use from professional operators (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	13.714 mg/kg bw/day	N/A	0.004987
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	13.926 mg/kg bw/day	N/A	0.013439

3.3. CS5: Worker Contributing Scenario: General use from professional operators (PROC2)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	1.371 mg/kg bw/day	N/A	0.000499
inhalative, systemic, long-term	1.479 mg/m ³	N/A	0.008452
combined routes	1.583 mg/kg bw/day	N/A	0.008951

3.3. CS6: Worker Contributing Scenario: General use from professional operators (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	16.457 mg/kg bw/day	N/A	0.005984
inhalative, systemic, long-term	133.125 mg/m ³	N/A	0.760714
combined routes	35.475 mg/kg bw/day	N/A	0.766699

3.3. CS7: Worker Contributing Scenario: General use from professional operators (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	16.457 mg/kg bw/day	N/A	0.005984
inhalative, systemic, long-term	44.375 mg/m ³	N/A	0.253571
combined routes	22.796 mg/kg bw/day	N/A	0.259556

3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

4. ES 4 Consumer use; Washing and cleaning products (PC35)	
4.1 TITLE SECTION	
Exposure Scenario name	Cleaning agent
Date - Version	08/02/2024 - 2.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Washing and cleaning products (PC35)
Environment Contributing Scenario	
CS1 Covered by	ERC8a
Consumer Contributing Scenario	
CS2 Consumer	PC35
CS3 Consumer	PC35
CS4 Consumer	PC35
4.2 Conditions of use affecting exposure	
4.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)	
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
<i>Amount used, frequency and duration of use (or from service life)</i>	
Amounts used: Daily amount per site 1644 kg/day Release type: Continuous release Emission days: 365 days per year	
<i>Conditions and measures related to treatment of waste (including article waste)</i>	
Waste treatment External treatment and disposal of waste should comply with applicable local and/or national regulations.	
<i>Other conditions affecting environmental exposure</i>	
Local marine water dilution factor: 100 Local freshwater dilution factor: 10 Receiving surface water flow: 18000 m ³ /day	
4.2. CS2: Consumer Contributing Scenario: Consumer (PC35)	
Product Categories	Washing and cleaning products (PC35)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 250 g

Duration:

Exposure duration 0.33 h

Frequency:

Covers use up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

4.2. CS3: Consumer Contributing Scenario: Consumer (PC35)

Product Categories

Washing and cleaning products (PC35)

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 60 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 50 g

Duration:

Exposure duration 1 h

Frequency:

Covers use up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

Assumes that potential dermal contact is limited to hands.

4.2. CS4: Consumer Contributing Scenario: Consumer (PC35)

Product Categories	Washing and cleaning products (PC35)
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Product Categories	Washing and cleaning products (PC35)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 10 %

Liquid

Concentration of substance in product:

Covers concentrations up to 10 %

Concentration of substance in product:

Covers concentrations up to 10 %

Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 35 g

Duration:

Exposure duration 4 h

Frequency:

Covers use up to 1 uses per day

Amount per use 35 g

Duration:

Exposure duration 4 h

Frequency:

Covers use up to 1 uses per day

Duration:

- Exposure duration 4 h

Frequency:

- Covers use up to 1 uses per day

Exposure duration 4 h

Frequency:

Covers use up to 1 uses per day

Frequency:

Covers use up to 1 uses per day

Covers use up to 1 uses per day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

Body parts exposed:

Assumes that potential dermal contact is limited to hands.

Assumes that potential dermal contact is limited to hands.

4.3 Exposure estimation and reference to its source

4.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Release route	Release rate	Release estimation method
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Release route	Release rate	Release estimation method
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Release route	Release rate	Release estimation method
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Air	100 %	N/A
Water	100 %	N/A
soil	0 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	0.064084 mg/L	N/A	0.267015
freshwater sediment	0.266576 mg/kg dry weight	N/A	0.048913
marine water	0.006389 mg/L	N/A	0.266228
marine sediment	0.026579 mg/kg dry weight	N/A	0.048769
soil	0.106749 mg/kg dry weight	N/A	0.014233
Sewage treatment plant	0.103991 mg/L	N/A	1E-05

4.2. CS2: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	71458 mg/kg bw/day	ECETOC TRA consumer v3	0.043308
inhalative, systemic, long-term	0.001433 mg/m ³	ECETOC TRA consumer v3	2.8E-05
combined routes	71.458 mg/kg bw/day	ECETOC TRA consumer v3	0.043336

4.2. CS3: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	85.75 mg/kg bw/day	ECETOC TRA consumer v3	0.05197
inhalative, systemic, long-term	0.001433 mg/m ³	ECETOC TRA consumer v3	2.8E-05
combined routes	85.75 mg/kg bw/day	ECETOC TRA consumer v3	0.051997

4.2. CS4: Consumer Contributing Scenario: Consumer (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	14.292 mg/kg bw/day	ECETOC TRA consumer v3	0.008662
inhalative, systemic, long-term	51.471 mg/m ³	ECETOC TRA consumer v3	0.989819
combined routes	18.996 mg/kg bw/day	ECETOC TRA consumer v3	0.998481

4.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.