

Karta charakterystyki

Diamond - Ceramic Bodywork Booster



Karta charakterystyki dla 30/4/2024, przegląd 3

SEKCJA 1: Identyfikacja substancji/mieszaniny i identyfikacja przedsiębiorstwa

1.1. Identyfikator produktu

Identyfikacja preparatu:

Nazwa handlowa: Diamond - Ceramic Bodywork Booster

Kod handlowy: 8096

1.2. Istotne zidentyfikowane zastosowania substancji lub mieszaniny oraz zastosowania odradzane

Użytkowanie zalecane:

Polish/środek polerujący do nadwozi

1.3. Dane dotyczące dostawcy karty charakterystyki

Dostawca:

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

Kompetentnej osoby odpowiedzialnej za kartę charakterystyki:

arexons@arexons.it

1.4. Numer telefonu alarmowego

Arexons S.p.A.

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

Ośrodek Toksykologiczny:

112

999

998

SEKCJA 2: Identyfikacja zagrożeń

2.1. Klasyfikacja substancji lub mieszaniny

Kryteria Rozporządzenia WE 1272/2008 (CLP):

⚠ uwaga, Flam. Liq. 3, Łatwopalna ciecz i pary.

⚠ uwaga, Skin Irrit. 2, Działa drażniąco na skórę.

⚠ uwaga, Eye Irrit. 2, Działa drażniąco na oczy.

Niekorzystne efekty dla fizykochemicznego zdrowia człowieka oraz dla środowiska:

Brak innych zagrożeń

2.2. Elementy oznakowania

Piktogramy wskazujące rodzaj zagrożenia:



uwaga

Zwroty wskazujące rodzaj zagrożenia:

H226 Łatwopalna ciecz i pary.

H315 Działa drażniąco na skórę.

H319 Działa drażniąco na oczy.

Zwroty wskazujące środki ostrożności:

P101 W razie konieczności zasięgnięcia porady lekarza należy pokazać pojemnik lub etykietę.

P102 Chronić przed dziećmi.

P103 Uważnie przeczytać wszystkie instrukcje i zastosować się do nich.

P210 Przechowywać z dala od źródeł ciepła, gorących powierzchni, źródeł iskrzenia, otwartego ognia i innych źródeł zapłonu. Nie palić.

P370+P378 W przypadku pożaru: do gaszenia użyć gaśnicę pianową.

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P403+P235 Przechowywać w dobrze wentylowanym miejscu. Przechowywać w chłodnym miejscu.

P501 Zawartość/pojemnik usuwać zgodnie z przepisami.

Polecenia specjalne:

Żadna

Specjalne postanowienia zgodna z Załącznikiem XVII Rozporządzenia REACH i kolejnymi nowelizacjami:

Żadna

2.3. Inne zagrożenia

Brak PBT, vPvB lub substancji niszczących hormony obecnych w stężeniu > = 0,1%.

Inne zagrożenia:

Brak innych zagrożeń

SEKCJA 3: Skład/informacja o składnikach

3.1. Substancje

N.A.

3.2. Mieszanki

Składniki niebezpieczne według Rozporządzenia CLP oraz odpowiedniej klasyfikacji:

>= 12,5% - < 15%	Idrocarburi C10-C13, n-alcani, isoalcani, < 2% aromatici	EC: 940-726-3 REACH No.: 01-2120083063-63	⚠ 3.10/1 Asp. Tox. 1 H304 EUH066
>= 3% - < 5%	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS: 64742-48-9 EC: 919-857-5 REACH No.: 01-2119463258-33	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.8/3 STOT SE 3 H336 EUH066 DECLP (CLP)*
>= 3% - < 5%	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC: 920-107-4 REACH No.: 01-2119453414-43	⚠ 3.10/1 Asp. Tox. 1 H304 EUH066
>= 1% - < 2%	2-aminoetanol; etanoamina	Numer Index: 603-030-00-8 CAS: 141-43-5 EC: 205-483-3 REACH No.: 01-2119486455-28	⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.8/3 STOT SE 3 H335 4.1/C3 Aquatic Chronic 3 H412 Specyficzne stężenia graniczne: C >= 5%: STOT SE 3 H335
>= 0,02% - < 0,05%	N-C12-16 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE.	CAS: 68424-85-1 EC: 939-350-2 REACH No.: 01-2119970550-39	⚠ 2.16/1 Met. Corr. 1 H290 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 4.1/A1 Aquatic Acute 1 H400 M=10. ⚠ 4.1/C1 Aquatic Chronic 1 H410

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*DECLP (CLP): Substancja klasyfikowana zgodnie z Notą P Załącznika VI Rozporządzenia (WE) 1272/2008. Stosuje się zharmonizowaną klasyfikację substancji jako substancji rakotwórczej lub mutagennej, chyba że można wykazać, że substancja zawiera mniej niż 0,1 % w/w benzenu (EINECS nr 200-753-7), w którym to przypadku przeprowadza się również dla tych klas zagrożenia klasyfikację zgodnie z tytułem II niniejszego rozporządzenia. Jeżeli substancja nie jest zaklasyfikowana jako rakotwórcza lub mutagenna, stosuje się przynajmniej zwroty określające środki ostrożności (P102-) P260-P262-P301 + P310-P331.

SEKCJA 4: Środki pierwszej pomocy

4.1. Opis środków pierwszej pomocy

W przypadku kontaktu ze skórą:

Natychmiast zdjąć skażoną odzież.

Przeemyć natychmiast dużą ilością bieżącej wody i ewentualnie mydła, obszary, które miały kontakt z produktem, nawet jeśli istnieją tylko podejrzenia.

Umyć dokładnie ciało (prysznic lub kąpiel).

Zdjąć natychmiast skażoną odzież i pozbyć się jej w bezpieczny sposób.

Przy kontakcie ze skórą umyć się natychmiast przy użyciu mydła i dużej ilości wody.

W przypadku kontaktu z oczami:

Przy kontakcie z oczami, płukać przy użyciu wody otwarte powieki przez wystarczająco długi okres czasu, po czym natychmiast zwrócić się do okulisty.

Chronić oko, które nie odniosło obrażeń.

W przypadku Połknięcia:

Absolutnie nie wywoływać wymiotów. NATYCHMIAST DOKONAĆ BADANIA LEKARSKIEGO.

W przypadku Wdychania:

Wyprowadzić ofiary na świeże powietrze, zapewnić im ciepło i odpoczynek.

4.2. Najważniejsze ostre i opóźnione objawy oraz skutki narażenia

Żaden

4.3. Wskazania dotyczące wszelkiej natychmiastowej pomocy lekarskiej i szczególnego postępowania z poszkodowanym

W razie wypadku lub złego poczucia się należy natychmiast zwrócić się o poradę lekarską (jeśli to możliwe, pokazać instrukcje użytkownika lub kartę danych bezpieczeństwa).

Leczenie:

Żaden

SEKCJA 5: Postępowanie w przypadku pożaru

5.1. Środki gaśnicze

Odpowiednie środki gaśnicze:

Śniegowa.

Proszkowa.

piana

Mgła wodna

Środki gaśnicze niezalecane:

Nie używać bezpośrednich strumieni wody.

5.2. Szczególne zagrożenia związane z substancją lub mieszaniną

Nie wdychać gazów wybuchowych i palnych.

Palenie powoduje ciężki dym.

5.3. Informacje dla straży pożarnej

Zastosować odpowiedni inhalator.

Gromadzić oddzielnie skażoną wodę pochodzącą z gaszenia pożaru. Nie wolno odprowadzać jej do kanalizacji.

Usunąć ze strefy bezpośredniego zagrożenia nieuszkodzone pojemniki, jeżeli jest to możliwe ze względów bezpieczeństwa.

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SEKCJA 6: Postępowanie w przypadku niezamierzonego uwolnienia do środowiska

- 6.1. Indywidualne środki ostrożności, wyposażenie ochronne i procedury w sytuacjach awaryjnych
 - Nałożyć środki ochrony osobistej.
 - Usunąć wszystkie źródła zapalne.
 - Wyprowadzić osoby w bezpieczne miejsce.
 - Patrz środki ochronne w punkcie 7 i 8.
- 6.2. Środki ostrożności w zakresie ochrony środowiska
 - Uniemożliwić przedostanie się do gruntu i przygruntu. Uniemożliwić przedostanie się do wód powierzchniowych lub kanalizacji.
 - Zatrzymać skażoną wodę z mycia i usunąć ją.
 - W przypadku ucieczki gazu do dróg wodnych, gruntu lub kanalizacji należy poinformować o tym odpowiednie władze.
 - Materiały odpowiednie do pochłaniania: materiały wchłaniające, materiały organiczne, piasek
- 6.3. Metody i materiały zapobiegające rozprzestrzenianiu się skażenia i służące do usuwania skażenia
 - Umyć przy użyciu dużej ilości wody.
- 6.4. Odniesienia do innych sekcji
 - Patrz również rozdział 8 i 13

SEKCJA 7: Postępowanie z substancjami i mieszaninami oraz ich magazynowanie

- 7.1. Środki ostrożności dotyczące bezpiecznego postępowania
 - Unikać kontaktu ze skórą i oczami, wdychania oparów i mgieł.
 - Nie wykorzystywać pustych pojemników bez uprzedniego ich wyczyszczenia.
 - Przed przystąpieniem do czynności przemieszczania, upewnić się iż w pojemnikach nie znajdują się pozostałości materiałów niemieszalnych.
 - W zakresie zalecanego wyposażenia ochronnego patrz również rozdział 8.

Przed wejściem do sali jadalnej należy zmienić skażoną odzież.
Podczas pracy nie jeść ani nie pić.
- 7.2. Warunki bezpiecznego magazynowania, w tym informacje dotyczące wszelkich wzajemnych niezgodności
 - Zawsze przechowywać w miejscach dobrze przewietrzonych.
 - Składować w temperaturach niższych niż 50 °C. Trzymać z dala od wolnych płomieni i źródeł ciepła. Unikać bezpośredniego wystawiania na słońce.
 - Trzymać z dala od wolnych płomieni, iskier i źródeł ciepła. Unikać bezpośredniego wystawiania na słońce.
 - Przechowywać z dala od żywności, napojów i paszy.
 - Żaden w szczególności.
 - Wskazówka dla pomieszczeń:
Świeże i odpowiednio przewietrzane.
- 7.3. Szczególne zastosowanie(-a) końcowe
 - Brak

SEKCJA 8: Kontrola narażenia/środki ochrony indywidualnej

- 8.1. Parametry dotyczące kontroli
 - Idrocarburi C10-C13, n-alcani, isoalcani, < 2% aromatici
 - 20101.13 - TWA: 1050 mg/m³
 - TLV TWA - 1660 mg/m³
 - Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9
 - ACGIH - TWA: 1200 mg/m³, 197 ppm
 - Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics
 - 20101.10 - TWA: 200 mg/m³
 - 20101.12 - TWA: 1200 mg/m³, 150 ppm
 - 2-aminoetanol; etanoloamina - CAS: 141-43-5
 - 20101.11 - TWA: 7.6 mg/m³, 3 ppm
 - EU - TWA(8h): 2.5 mg/m³, 1 ppm - STEL: 7.6 mg/m³, 3 ppm - Uwagi: Skin
 - ACGIH - TWA(8h): 3 ppm - STEL: 6 ppm - Uwagi: Eye and skin irr



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Wartości graniczne narażenia DNEL

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9

Pracownik wykwalifikowany: 208 mg/kg - Narażenie: przez skórę u człowieka -

Częstotliwość: Okres długi, skutki systemowe

Pracownik wykwalifikowany: 871 mg/m³ - Narażenie: przez wdychanie u człowieka -

Częstotliwość: Okres długi, skutki systemowe

Konsument: 125 mg/kg - Narażenie: przez skórę u człowieka - Częstotliwość: Okres długi, skutki systemowe

Konsument: 185 mg/m³ - Narażenie: przez wdychanie u człowieka - Częstotliwość: Okres długi, skutki systemowe

Konsument: 125 mg/kg - Narażenie: doustnie u człowieka - Częstotliwość: Okres długi, skutki systemowe

2-aminoetanol; etanoloamina - CAS: 141-43-5

Konsument: 3.75 mg/kg - Narażenie: doustnie u człowieka - Częstotliwość: Okres długi, skutki systemowe

Pracownik wykwalifikowany: 0.51 mg/m³ - Konsument: 0.18 mg/m³ - Narażenie: przez wdychanie u człowieka - Częstotliwość: Okres długi, skutki miejscowe

Pracownik wykwalifikowany: 3 mg/kg - Konsument: 1.5 mg/kg - Narażenie: przez skórę u człowieka - Częstotliwość: Okres długi, skutki systemowe

Wartości graniczne narażenia PNEC

2-aminoetanol; etanoloamina - CAS: 141-43-5

Cel: Słodka woda - Wartość: 0.07 mg/l

Cel: Woda morska - Wartość: 0.007 mg/l

Cel: Słodka woda osady - Wartość: 0.357 mg/kg

Cel: Woda morska osady - Wartość: 0.0357 mg/kg

Cel: 09 - Wartość: 100 mg/l

8.2. Kontrola narażenia

Ochrona oczu:

Zgodny z EN 166

Okulary z osłoną boczną.

Ochrona skóry:

odzież ochronna

Ochrona rąk:

Zgodne z EN 374.

Rękawice nitylowe lub z tworzywa Viton.

Ochrona dróg oddechowych:

Nie konieczna przy normalnym użytkowaniu.

Zagrożenia termiczne:

Żaden

Kontrola ekspozycji środowiska:

Żaden

Odpowiednie zabezpieczenia techniczne:

Żaden

SEKCJA 9: Właściwości fizyczne i chemiczne

9.1. Informacje na temat podstawowych właściwości fizycznych i chemicznych

Właściwości	Wartość	Metoda:	Uwagi
Stan skupienia:	Płyn	--	--
Kolor:	Kremowy	--	--
Zapach:	N.A.	--	--
Temperatura topnienia/	N.A.	--	--

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krzepnięcia:			
Temperatura wrzenia lub początkowa temperatura wrzenia i zakres temperatur wrzenia:	N.A.	--	--
Palność materiałów:	Flam. Liq. 3, H226	--	--
Dolna i górna granica wybuchowości:	N.A.	--	--
Temperatura zapalania:	59°C	--	--
Temperatura samozapalenia:	N.A.	--	--
Temperatura rozkładu:	N.A.	--	--
pH:	9.5	--	--
Lepkość kinematyczna:	N.A.	--	--
Rozpuszczalność w wodzie:	N.A.	--	--
Rozpuszczalność w oleju:	N.A.	--	--
Współczynnik podziału n-oktanol/woda (wartość współczynnika log):	N.A.	--	--
Ciśnienie pary:	N.A.	--	--
Gęstość lub gęstość względna:	0,99	--	--
Względna gęstość pary:	N.A.	--	--
Charakterystyka cząsteczek:			
Wielkość cząstek:	N.A.	--	--

9.2. Inne informacje

Brak innych istotnych informacji

SEKCJA 10: Stabilność i reaktywność

10.1. Reaktywność

Stabilny w warunkach normalnych

10.2. Stabilność chemiczna

Stabilny w warunkach normalnych

10.3. Możliwość występowania niebezpiecznych reakcji

Żaden

10.4. Warunki, których należy unikać

Stabilne w normalnych warunkach.

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- 10.5. Materiały niezgodne
Unikać kontaktu z materiałami utleniającymi. Produkt może ulec zapaleniu.
- 10.6. Niebezpieczne produkty rozkładu
Żadne.

SEKCJA 11: Informacje toksykologiczne

11.1. Informacje na temat klas zagrożenia zdefiniowanych w rozporządzeniu (WE) nr 1272/2008

Informacje toksykologiczne produktu:

Diamond - Polish 500 ml

a) toksyczność ostra

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

b) działanie żrące/drażniące na skórę

Produkt jest sklasyfikowany: Skin Irrit. 2 H315

c) poważne uszkodzenie oczu/działanie drażniące na oczy

Produkt jest sklasyfikowany: Eye Irrit. 2 H319

d) działanie uczulające na drogi oddechowe lub skórę

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

e) działanie mutagenne na komórki rozrodcze

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

f) rakotwórczość

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

g) szkodliwe działanie na rozrodczość

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

h) działanie toksyczne na narządy docelowe - narażenie jednorazowe

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

i) działanie toksyczne na narządy docelowe - narażenie powtarzane

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

j) zagrożenie spowodowane aspiracją

Nie klasyfikowany

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Informacje toksykologiczne głównych substancji zawartych w produkcie:

Idrocarburi C10-C13, n-alcani, isoalcani, < 2% aromatici

a) toksyczność ostra:

Badanie: LD50 - Drogi przenikania: Ustny - Rodzaje: Szczur > 5000 mg/kg - Uwagi:

OECD TG 401

Badanie: LD50 - Drogi przenikania: Skóra - Rodzaje: Królik > 5000 mg/kg - Uwagi: OECD

TG 402

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9

a) toksyczność ostra:

Badanie: LC50 - Drogi przenikania: Wdychanie - Rodzaje: Szczur > 5000 mg/m³ - Czas trwania: 4h - Źródło: ECHA BP - SUPPLIER SDS

Badanie: LD50 - Drogi przenikania: Ustny - Rodzaje: Szczur > 5000 mg/kg - Źródło:

ECHA BP - SUPPLIER SDS

Badanie: LD50 - Drogi przenikania: Skóra - Rodzaje: Królik > 5000 mg/kg - Źródło: ECHA

BP - SUPPLIER SDS

h) działanie toksyczne na narządy docelowe - narażenie jednorazowe:

Badanie: oecd 12 Dodatni - Źródło: SUPPLIER SDS - Brak dostępnych danych dla produktu

i) działanie toksyczne na narządy docelowe - narażenie powtarzane:

Badanie: oecd 7 Ujemny - Źródło: SUPPLIER SDS

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Badanie: NOAEL - Drogi przenikania: Ustny - Rodzaje: Szczur > 1000 mg/kg - Źródło: ECHA BP

Badanie: NOAEL - Drogi przenikania: Wdychanie - Rodzaje: Szczur 200 ppm - Źródło: ECHA BP

Badanie: NOAEC - Drogi przenikania: Wdychanie - Rodzaje: Szczur > 275 mg/m³ - Źródło: ECHA BP

j) zagrożenie spowodowane aspiracją:

Badanie: oecd 14 - Drogi przenikania: Ustny - Źródło: SUPPLIER SDS

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics

a) toksyczność ostra:

Badanie: LD50 - Drogi przenikania: Skóra - Rodzaje: Królik > 5000 mg/kg - Uwagi: OCSE 402

Badanie: LC50 - Drogi przenikania: Wdychanie - Rodzaje: Szczur > 5000 mg/m³ - Czas trwania: 4h - Uwagi: OCSE 403

Badanie: LD50 - Drogi przenikania: Ustny - Rodzaje: Szczur > 5000 mg/kg - Uwagi: OCSE 401

b) działanie żrące/drażniące na skórę:

Badanie: Żrący dla skóry - Drogi przenikania: Skóra Ujemny - Uwagi: OCSE 404 - *Puñ seccare la pelle e causare conseguenti dermatiti* - W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

c) poważne uszkodzenie oczu/działanie drażniące na oczy:

Badanie: Żrący dla oczu - Drogi przenikania: EYE Ujemny - Uwagi: OCSE 405 - *Puñ causare disturbi lievi di breve durata agli occhi* - W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

e) działanie mutagenne na komórki rozrodcze:

Badanie: Mutageneza 3 - Uwagi: OCSE 471, 473, 474, 476, 478, 479 - W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

f) rakotwórczość:

Badanie: Karcynogeneza 3 - Uwagi: OCSE 453 - W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

g) szkodliwe działanie na rozrodczość:

Badanie: Toksyczność w zakresie Płodności 3 - Uwagi: OCSE 413, 414, 415 - W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

i) działanie toksyczne na narządy docelowe - narażenie powtarzane:

3 - Uwagi: OCSE 408, 413 - W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

j) zagrożenie spowodowane aspiracją:

Dodatni - Źródło: sulla base dei dati chimico-fisici

2-aminoetanol; etanoloamina - CAS: 141-43-5

a) toksyczność ostra:

Badanie: LD50 - Drogi przenikania: Ustny - Rodzaje: Szczur = 1089 mg/kg

Badanie: LD50 - Drogi przenikania: Skóra - Rodzaje: Królik = 2504 mg/kg

Badanie: LC50 - Drogi przenikania: Wdychanie - Rodzaje: Szczur > 1.3 mg/l - Czas trwania: 4h

b) działanie żrące/drażniące na skórę:

Badanie: Żrący dla oczu Dodatni - Uwagi: due to physical-chemical data (pH = 13)

Badanie: Żrący dla skóry Dodatni - Uwagi: due to physical-chemical data (pH = 13)

N-C12-16 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE. - CAS: 68424-85-1

a) toksyczność ostra:

Badanie: LD50 - Drogi przenikania: Ustny - Rodzaje: Szczur 426 mg/kg

Badanie: LD50 - Drogi przenikania: Skóra - Rodzaje: Szczur 400-2000 mg/kg

11.2. Informacje o innych zagrożeniach

Właściwości zaburzające funkcjonowanie układu hormonalnego:

Brak substancji niszczących hormony obecnych w stężeniu $\geq 0,1\%$

SEKCJA 12: Informacje ekologiczne

8096/3

Strona nr. 8 z 13

Karta charakterystyki

Diamond - Ceramic Bodywork Booster



12.1. Toksyczność

Stosować według prawidłowych praktyk roboczych, unikając rozpraszania produktu w środowisku.

Idrocarburi C10-C13, n-alcani, isoalacani, < 2% aromatici

a) Toksyczność ostra dla środowiska wodnego:

Punkt końcowy: LL50 - Rodzaje: Ryba > 1000 mg/l - Czas h: 96

Punkt końcowy: LL50 - Rodzaje: Dafnia > 100 mg/l - Czas h: 48

Punkt końcowy: EL50 - Rodzaje: Glon > 100 mg/l - Czas h: 72

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclicis, < 2% aromatics - CAS: 64742-48-9

a) Toksyczność ostra dla środowiska wodnego:

Punkt końcowy: EL0 - Rodzaje: Dafnia 1000 mg/l - Czas h: 48

Punkt końcowy: EL50 - Rodzaje: Glon > 1000 mg/l - Czas h: 72

Punkt końcowy: LL50 - Rodzaje: Ryba > 1000 mg/l - Czas h: 96

Punkt końcowy: NOELR - Rodzaje: Glon 100 mg/l - Czas h: 72

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclicis, < 2% aromatics

a) Toksyczność ostra dla środowiska wodnego:

Punkt końcowy: EL0 - Rodzaje: Dafnia 1000 mg/l - Czas h: 48

Punkt końcowy: CE7 - Rodzaje: Ryba 1000 mg/l - Czas h: 96

Punkt końcowy: EL0 - Rodzaje: Glon 1000 mg/l - Czas h: 72

Punkt końcowy: NOELR - Rodzaje: Glon 1000 mg/l - Czas h: 72

2-aminoetanol; etanoloamina - CAS: 141-43-5

a) Toksyczność ostra dla środowiska wodnego:

Punkt końcowy: LC50 - Rodzaje: Ryba = 349 mg/l - Czas h: 96

Punkt końcowy: EC50 - Rodzaje: Dafnia = 27.04 mg/l - Czas h: 48

Punkt końcowy: EC50 - Rodzaje: Glon = 2.8 mg/l - Czas h: 2.8

N-C12-16 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE. - CAS: 68424-85-1

a) Toksyczność ostra dla środowiska wodnego:

Punkt końcowy: EC50 - Rodzaje: Glon 670 µg/l - Czas h: 96

Punkt końcowy: EC50 - Rodzaje: Dafnia 5.9 ppb - Czas h: 48

Punkt końcowy: LC50 - Rodzaje: Ryba 0.28 ppm - Czas h: 96

b) Toksyczność przewlekła dla środowiska wodnego:

Punkt końcowy: NOEC - Rodzaje: Dafnia 0.025 mg/l - Czas h: 504

12.2. Trwałość i zdolność do rozkładu

Żaden

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclicis, < 2% aromatics

Biodegradowalność: Rozkładany w krótkim czasie

2-aminoetanol; etanoloamina - CAS: 141-43-5

Biodegradowalność: Rozkładany w krótkim czasie - Badanie: BIOGDG14 - Czas h: 21GG
- %: 91

N-C12-16 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE. - CAS: 68424-85-1

Biodegradowalność: Rozkładany w krótkim czasie - Badanie: BIOGDG08 - Czas h: 28gg -
%: 61

12.3. Zdolność do bioakumulacji

N.A.

12.4. Mobilność w glebie

N.A.

12.5. Wyniki oceny właściwości PBT i vPvB

Substancje vPvB: Żadna - Substancje PBT: Żadna

12.6. Właściwości zaburzające funkcjonowanie układu hormonalnego

Brak substancji niszczących hormony obecnych w stężeniu $\geq 0,1\%$

12.7. Inne szkodliwe skutki działania

Żaden

SEKCJA 13: Postępowanie z odpadami

13.1. Metody unieszkodliwiania odpadów

Odzyskiwać jeśli to możliwe. Odsyłać do upoważnionych instalacji likwidowania lub spalania w warunkach kontrolowanych. Działać według obowiązujących przepisów lokalnych i krajowych.

Karta charakterystyki Diamond - Ceramic Bodywork Booster



SEKCJA 14: Informacje dotyczące transportu



- 14.1. Numer UN lub numer identyfikacyjny ID
ADR-UN Number: 1263
IATA-UN Number: 1263
IMDG-UN Number: 1263
- 14.2. Prawidłowa nazwa przewozowa UN
ADR-Shipping Name: MATERIAŁ POKREWNY DO FARBY
IATA-Shipping Name: MATERIAŁ POKREWNY DO FARBY
IMDG-Shipping Name: MATERIAŁ POKREWNY DO FARBY
- 14.3. Klasa(-y) zagrożenia w transporcie
ADR-Class: 3
ADR - Numer rozpoznawczy zagrożenia: 30
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3
- 14.4. Grupa pakowania
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Zagrożenia dla środowiska
ADR-Substancja Zanieczyszczająca Środowisko: Nie
IMDG-Marine pollutant: No
IMDG-EmS: F-E,
[S-
E]
- 14.6. Szczególne środki ostrożności dla użytkowników
ADR-Subsidiary hazards: -
ADR-S.P.: 163 367 650
ADR-Kategoria transportowa (Kod ograniczeń przewozu przez tunele): 3
(D/E)

IATA-Passenger Aircraft: 355
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 366
IATA-S.P.: A3 A72 A192
IATA-ERG: 3L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -
- 14.7. Transport morski luzem zgodnie z instrumentami IMO
N.A.
Limited Quantity: 5 L
Exempted Quantity: E1

SEKCJA 15: Informacje dotyczące przepisów prawnych

- 15.1. Przepisy prawne dotyczące bezpieczeństwa, zdrowia i ochrony środowiska specyficzne dla substancji lub mieszaniny
Dyr. 98/24/WE (Zagrożenia związane ze środkami chemicznymi w miejscu pracy)
Dyr. 2000/39/WE (Wykaz wskaźnikowych wartości narażenia zawodowego)
Rozporządzenie (WE) n. 1907/2006 (REACH)
Rozporządzenie (WE) n. 1272/2008 (CLP)

Karta charakterystyki Diamond - Ceramic Bodywork Booster



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

Ograniczenia dotyczące produktu lub zawartej w nim substancji, zgodnie z Załącznikiem XVII

Rozporządzenia (WE) 1907/2006 (REACH) i kolejnych zmian:

Ograniczenia dotyczące produktu:

Ograniczenie 3

Ograniczenie 40

Ograniczenia dotyczące zawartych substancji:

Ograniczenie 75

Lotne Związki Organiczne - VOC = 26.67 %

Lotne Związki Organiczne - VOC = 266.66 g/Kg

Lotne Związki Organiczne - VOC = 263.99 g/l

Tam gdzie zastosowywalne należy odnieść się do następujących norm:

Dyrektywą 2012/18/UE (Seveso III)

Rozporządzenie (WE) nr 648/2004 (detergentów).

Dyr. 2004/42/WE w sprawie ograniczenia emisji lotnych związków organicznych

Produkt należy do kategorii: P5c

15.2. Ocena bezpieczeństwa chemicznego

Nie została przeprowadzona Ocena bezpieczeństwa chemicznego dla mieszaniny

Substancje, dla których została przeprowadzona Ocena bezpieczeństwa chemicznego

2-aminoetanol; etanoloamina

SEKCJA 16: Inne informacje

Zwroty użyte w rozdziale 3:

H304 Połknięcie i dostanie się przez drogi oddechowe może grozić śmiercią.

EUH066 Powtarzające się narażenie może powodować wysuszenie lub pękanie skóry.

H226 Łatwopalna ciecz i pary.

H336 Może wywoływać uczucie senności lub zawroty głowy.

H314 Powoduje poważne oparzenia skóry oraz uszkodzenia oczu.

H318 Powoduje poważne uszkodzenie oczu.

H302 Działa szkodliwie po połknięciu.

H312 Działa szkodliwie w kontakcie ze skórą.

H332 Działa szkodliwie w następstwie wdychania.

H335 Może powodować podrażnienie dróg oddechowych.

H412 Działa szkodliwie na organizmy wodne, powodując długotrwałe skutki.

Karta charakterystyki Diamond - Ceramic Bodywork Booster



H290 Może powodować korozję metali.

H400 Działa bardzo toksycznie na organizmy wodne.

H410 Działa bardzo toksycznie na organizmy wodne, powodując długotrwałe skutki.

Klasa i kategoria zagrożenia	Kod	Opis
Met. Corr. 1	2.16/1	Substancja lub mieszanina powodująca korozję metali, Kategoria 1
Flam. Liq. 3	2.6/3	Substancja ciekła łatwopalna, Kategoria 3
Acute Tox. 4	3.1/4/Dermal	Toksyczność ostra (po naniesieniu na skórę), Kategoria 4
Acute Tox. 4	3.1/4/Inhal	Toksyczność ostra (po narażeniu inhalacyjnym), Kategoria 4
Acute Tox. 4	3.1/4/Oral	Toksyczność ostra (droga pokarmowa), Kategoria 4
Asp. Tox. 1	3.10/1	Zagrożenie spowodowane aspiracją, Kategoria 1
Skin Corr. 1B	3.2/1B	Działanie żrące na skórę, Kategoria 1B
Skin Irrit. 2	3.2/2	Działanie drażniące na skórę, Kategoria 2
Eye Dam. 1	3.3/1	Poważne uszkodzenie oczu, Kategoria 1
Eye Irrit. 2	3.3/2	Działanie drażniące na oczy, Kategoria 2
STOT SE 3	3.8/3	Działanie toksyczne na narządy docelowe - narażenie jednorazowe, Kategoria 3
Aquatic Acute 1	4.1/A1	Ostre zagrożenie dla środowiska wodnego, Kategoria 1
Aquatic Chronic 1	4.1/C1	Przewlekłe (długotrwałe) zagrożenie dla środowiska wodnego, Kategoria 1
Aquatic Chronic 3	4.1/C3	Przewlekłe (długotrwałe) zagrożenie dla środowiska wodnego, Kategoria 3

Paragrafy zmodyfikowane przez poprzedni przegląd:

SEKCJA 14: Informacje dotyczące transportu

Klasyfikacja i procedura wykorzystana w celu dokonania klasyfikacji mieszanin zgodnie z rozporządzeniem (WE) 1272/2008 [CLP]:

Klasyfikacja zgodnie z rozporządzeniem (WE) nr 1272/2008	Procedura klasyfikacji
Flam. Liq. 3, H226	Na podstawie wyników badań
Skin Irrit. 2, H315	Metoda obliczeniowa

Karta charakterystyki Diamond - Ceramic Bodywork Booster



Eye Irrit. 2, H319

Metoda obliczeniowa

Niniejszy dokument został przygotowany przez kompetentną osobę, która otrzymała odpowiednie przeszkolenie

Główne źródła bibliograficzne:

ECDIN - Dane chemiczne dotyczące warunków środowiskowych i Sieć Informacyjna -
Zrzeszony Ośrodek Badań, Komisja Wspólnoty Europejskiej
SAX NIEBEZPIECZNE WŁAŚCIWOŚCI MATERIAŁÓW PRZEMYSŁOWYCH - Wydanie ósme -
Van Nostrand Reinold

Informacje w nim zawarte opierają się na naszej wiedzy w wyżej wymienionym dniu. Dotyczą wyłącznie wskazanego produktu i nie tworzą gwarancji szczególnych jakości.

Użytkownik powinien upewnić się o przydatności i kompletności tych informacji w związku ze specyficznym użyciem, do jakiego jest on przeznaczony.

Ta tablica anuluje i zastępuje jakąkolwiek poprzednią edycję.

ADR:	Umowa Europejska dotycząca Międzynarodowego Przewozu Drogowego Towarów Niebezpiecznych
ATE:	Ocena toksyczności ostrej
ATEmix:	Oszacowana toksyczność ostra (Mieszaniny)
CAS:	Chemical Abstracts Service (oddział Amerykańskiego Towarzystwa Chemicznego).
CLP:	Klasyfikacja, Oznakowanie i Pakowanie
DNEL:	Pochodny Poziom Niepowodujący Zmian
EINECS:	Europejski Wykaz Istniejących Substancji o Znaczeniu Komercyjnym
GefStoffVO:	Rozporządzenie o Substancjach Niebezpiecznych, Niemcy
GHS:	Globalny Zharmonizowany System Klasyfikacji i Oznakowania Chemikaliów
IATA:	Międzynarodowe Zrzeszenie Przewoźników Powietrznych
IATA-DGR:	Konwencja w sprawie Bezpiecznego Transportu Materiałów "Międzynarodowego Zrzeszenia Przewoźników Powietrznych" (IATA)
ICAO:	Organizacja Międzynarodowego Lotnictwa Cywilnego
ICAO-TI:	Instrukcje Techniczne "Organizacji Międzynarodowego Lotnictwa Cywilnego" (ICAO)
IMDG:	Międzynarodowy Morski Kodeks Towarów Niebezpiecznych
INCI:	Międzynarodowe Nazewnictwo Składników Kosmetycznych
KSt:	Wskaźnik wybuchowości.
LC50:	Stężenie śmiertelne dla 50 procent osobników badanej populacji
LD50:	Dawka śmiertelna dla 50 procent osobników badanej populacji
NA:	Nie zastosowywalny
PNEC:	Przewidywane Stężenie Niepowodujące Zmian w Środowisku
RID:	Regulamin Międzynarodowego Przewozu Kolejami Towarów Niebezpiecznych
STEL:	Krótkoterminowa Dopuszczalna Wartość Narażenia
STOT:	Działanie Toksyczne Na Narządy Docelowe
TLV:	Najwyższa Dopuszczalna Wartość Stężenia
TWA:	Średnia ważona czasu
WGK:	Niemiecka Klasa Zagrożenia Dla Wód

Exposure Scenario, 08/07/2019

Substance identity	
Chemical name	Hydrocarbons C9-C11 cyclics-iso-alkanes <2% aromatics, declass. ex Notes "p"
CAS No.	64742-48-9
EINECS No.	919-857-5

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6. **ES 6** Consumer use; Various products (PC1, PC24, PC31)
7. **ES 7** Consumer use; Various products (PC1, PC24, PC31)
8. **ES 8** Consumer use; Adhesives, sealants (PC1)
9. **ES 9** Consumer use; Various products (PC39, PC28)

1. ES 1 Formulation or re-packing; Solvent-based process

1.1 TITLE SECTION

Exposure Scenario name	Formulation and (re) packaging of substances and mixtures
Date - Version	28/06/2019 - 1.0
Life Cycle Stage	Formulation or re-packing
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3) - Formulation [mixing] of preparations and/or re-packaging (SU10)

Environment Contributing Scenario

CS1 Wet formulation	ERC2
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Worker Contributing Scenario

CS2 General exposures	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC14 - PROC15
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1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Wet formulation (ERC2)

Environmental release categories	Formulation into mixture (ERC2)
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Product (article) characteristics

Physical form of product:

Liquid

1.2. CS2: Worker Contributing Scenario: General exposures (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC14, PROC15)

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) - Tableting, compression, extrusion, pelletisation, granulation - Use as laboratory reagent (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC14, PROC15)
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Product (article) characteristics

Physical form of product:

Liquid

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature. 20°C

1.3 Exposure estimation and reference to its source

N/A

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 Use at industrial site

2.1 TITLE SECTION

Exposure Scenario name	Lubricating agent
Date - Version	28/06/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)

Environment Contributing Scenario

CS1 Solvent-based process ERC4 - ERC7

Worker Contributing Scenario

CS2 General measures applicable to all activities PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17 - PROC18

2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC4, ERC7)

Environmental release categories Use of non-reactive processing aid at industrial site (no inclusion into or onto article) - Use of functional fluid at industrial site (ERC4, ERC7)

2.2. CS2: Worker Contributing Scenario: General measures applicable to all activities (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)

Process Categories 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 - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)

Product (article) characteristics

Physical form of product:

Liquid

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

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

Personal protection

Wear suitable gloves tested to EN374.

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature.

2.3 Exposure estimation and reference to its source

N/A

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 Use at industrial site

3.1 TITLE SECTION

Exposure Scenario name	Lubricants - Industrial use
Date - Version	28/06/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)

Environment Contributing Scenario

CS1 Solvent-based process	ERC4 - ERC7
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Worker Contributing Scenario

CS2 Lubricants	PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17 - PROC18
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3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC4, ERC7)

Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) - Use of functional fluid at industrial site (ERC4, ERC7)
---	---

Product (article) characteristics

Physical form of product:

Liquid

3.2. CS2: Worker Contributing Scenario: Lubricants (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)

Process Categories	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 - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Use in contained systems

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

Personal protection

Wear suitable gloves tested to EN374.

Other conditions affecting worker exposure

Temperature: Assumes use at not more than 20 °C above ambient temperature.

3.3 Exposure estimation and reference to its source

N/A

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 Widespread use by professional workers

4.1 TITLE SECTION

Exposure Scenario name	Lubricants - Industrial use
Date - Version	28/06/2019 - 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 Solvent-based process	ERC9a - ERC9b
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Worker Contributing Scenario

CS2 Lubricants	PROC20 - PROC1 - PROC2 - PROC3 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC17 - PROC18
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4.2 Conditions of use affecting exposure

4.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
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4.2. CS2: Worker Contributing Scenario: Lubricants (PROC20, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)

Process Categories	Use of functional fluids in small devices - 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 - 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 - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC20, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

4.3 Exposure estimation and reference to its source

N/A

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.

5. ES 5 Widespread use by professional workers

5.1 TITLE SECTION

Exposure Scenario name	Lubricants (high power)
Date - Version	28/06/2019 - 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 Solvent-based process	ERC8a - ERC8d
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Worker Contributing Scenario

CS2 Lubricants	PROC20 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC17 - PROC18
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5.2 Conditions of use affecting exposure

5.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
----------------------------------	---

Product (article) characteristics

Physical form of product:

Liquid

5.2. CS2: Worker Contributing Scenario: Lubricants (PROC20, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)

Process Categories	Use of functional fluids in small devices - 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 - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC20, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

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

Personal protection

Wear suitable gloves tested to EN374.

5.3 Exposure estimation and reference to its source

N/A

5.4 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.

6. ES 6 Consumer use; Various products (PC1, PC24, PC31)

6.1 TITLE SECTION

Exposure Scenario name	Lubricants (low release)
Date - Version	28/06/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Adhesives, sealants (PC1) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31)

Environment Contributing Scenario

CS1 Solvent-based process	ERC9a - ERC9b
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Consumer Contributing Scenario

CS2 Lubricants

6.2 Conditions of use affecting exposure

6.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

6.2. CS2: Consumer Contributing Scenario: Lubricants

Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Frequency:

Covers exposure up to 1 events per day

Other conditions affecting consumers exposure

Temperature: Covers use at ambient temperatures.

6.3 Exposure estimation and reference to its source

N/A

6.4 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.

7. ES 7 Consumer use; Various products (PC1, PC24, PC31)

7.1 TITLE SECTION

Exposure Scenario name	Lubricants (low release)
Date - Version	01/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Adhesives, sealants (PC1) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31)

Environment Contributing Scenario

CS1 Solvent-based process	ERC9a - ERC9b
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Consumer Contributing Scenario

CS2 Lubricants	PC24
CS3 Lubricants	PC1
CS4 Lubricants	PC31 - PC23_1, PC31_1 - PC23_2, PC31_2

7.2 Conditions of use affecting exposure

7.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
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7.2. CS2: Consumer Contributing Scenario: Lubricants (PC24)

Product Categories	Lubricants, greases, release products (PC24)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Frequency:

Covers exposure up to 1 uses per day

Frequency:

Covers exposure up to 4 days per year

Other conditions affecting consumers exposure

Indoor use

Room size: Covers use in a one car garage (>34 m³) under typical ventilation.

Temperature: Covers use at ambient temperatures.

Ventilation rate: Covers use under typical household ventilation.

7.2. CS3: Consumer Contributing Scenario: Lubricants (PC1)

Product Categories	Adhesives, sealants (PC1)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers concentrations up to 30 %

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

Covers use up to 1 uses per day

Frequency:

Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Indoor use

Room size: Covers use in room size of 20 m³**Temperature:** Covers use at ambient temperatures.**Ventilation rate:** Covers use under typical household ventilation.**7.2. CS4: Consumer Contributing Scenario: Lubricants (PC31)****Product Categories**

Polishes and wax blends (PC31)

Product (Sub-)Categories

Polishes, wax/cream (floor, furniture, shoes) - Polishes, spray (furniture, shoes) (PC23_1, PC31_1, PC23_2, PC31_2)

*Product (article) characteristics***Physical form of product:**

Liquid, vapour pressure < 0,5 kPa at STP

Concentration of substance in product:

Covers concentrations up to 50 %

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

Covers exposure up to 1 uses per day

Frequency:

Covers exposure up to 29 days per year

Other conditions affecting consumers exposure

Indoor use

Room size: Covers use in room size of 20 m³**7.3 Exposure estimation and reference to its source**

N/A

7.4 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.

8. ES 8 Consumer use; Adhesives, sealants (PC1)

8.1 TITLE SECTION

Exposure Scenario name	Lubricants (high release)
Date - Version	01/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Adhesives, sealants (PC1)

Environment Contributing Scenario

CS1 Waste management	ERC8a
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Consumer Contributing Scenario

CS2 Lubricants	PC1
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8.2 Conditions of use affecting exposure

8.2. CS1: Environment Contributing Scenario: Waste management (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
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8.2. CS2: Consumer Contributing Scenario: Lubricants (PC1)

Product Categories	Adhesives, sealants (PC1)
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Product (article) characteristics

Physical form of product:

Liquid

8.3 Exposure estimation and reference to its source

N/A

8.4 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.

9. ES 9 Consumer use; Various products (PC39, PC28)

9.1 TITLE SECTION

Exposure Scenario name	Cosumer other uses
Date - Version	01/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Cosmetics, personal care products (PC39) - Perfumes, fragrances (PC28)

Environment Contributing Scenario

CS1 Processing of organic liquids	ERC8a - ERC8d
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Consumer Contributing Scenario

CS2 Consumer	PC39 - PC28
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9.2 Conditions of use affecting exposure

9.2. CS1: Environment Contributing Scenario: Processing of organic liquids (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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9.2. CS2: Consumer Contributing Scenario: Consumer (PC39, PC28)

Product Categories	Cosmetics, personal care products - Perfumes, fragrances (PC39, PC28)
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Product (article) characteristics

Physical form of product:
Liquid

9.3 Exposure estimation and reference to its source

N/A

9.4 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, 29/07/2019

Substance identity	
Chemical name	idrocarburi dearomatizzati
EINECS No.	920-107-4

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1. ES 1 Use at industrial site

1.1 TITLE SECTION

Exposure Scenario name	Use in coatings
Date - Version	29/07/2019 - 1.0
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
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Worker Contributing Scenario

CS2 Industrial	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC10 - PROC13 - PROC15
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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)
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1.2. CS2: Worker Contributing Scenario: Industrial (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15)

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 - Roller application or brushing - Treatment of articles by dipping and pouring - Use as laboratory reagent (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

1.3 Exposure estimation and reference to its source

N/A

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 Use at industrial site

2.1 TITLE SECTION

Exposure Scenario name	Industrial use of laundry products
Date - Version	29/07/2019 - 1.0
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
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Worker Contributing Scenario

CS2 Industrial	PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC10 - PROC13
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2.2 Conditions of use affecting exposure

2.2. 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)
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2.2. CS2: Worker Contributing Scenario: Industrial (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13)

Process Categories	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 - Roller application or brushing - Treatment of articles by dipping and pouring (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13)
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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 100 %.

2.3 Exposure estimation and reference to its source

N/A

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 Use at industrial site

3.1 TITLE SECTION

Exposure Scenario name	Lubricants - Industrial use
Date - Version	29/07/2019 - 1.0
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 - ERC7
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Worker Contributing Scenario

CS2 Industrial	PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17 - PROC18
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3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Covered by (ERC4, ERC7)

Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) - Use of functional fluid at industrial site (ERC4, ERC7)
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3.2. CS2: Worker Contributing Scenario: Industrial (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)

Process Categories	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 - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

3.3 Exposure estimation and reference to its source

N/A

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 Use at industrial site

4.1 TITLE SECTION

Exposure Scenario name	Metal working fluids / rolling oils
Date - Version	29/07/2019 - 1.0
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
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Worker Contributing Scenario

CS2 Industrial	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17
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4.2 Conditions of use affecting exposure

4.2. 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)
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4.2. CS2: Worker Contributing Scenario: Industrial (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17)

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 - Lubrication at high energy conditions in metal working operations (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

4.3 Exposure estimation and reference to its source

N/A

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.

5. ES 5 Widespread use by professional workers

5.1 TITLE SECTION

Exposure Scenario name	Use in coatings
Date - Version	29/07/2019 - 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 - ERC8d
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Worker Contributing Scenario

CS2 General use from professional operators	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC10 - PROC11 - PROC13 - PROC15 - PROC19
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5.2 Conditions of use affecting exposure

5.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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5.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC5, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, 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 - 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, PROC10, PROC11, PROC13, PROC15, PROC19)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

5.3 Exposure estimation and reference to its source

N/A

5.4 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.

6. ES 6 Widespread use by professional workers

6.1 TITLE SECTION

Exposure Scenario name	Laundry products
Date - Version	29/07/2019 - 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 - ERC8d
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Worker Contributing Scenario

CS2 General use from professional operators	PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC10 - PROC11 - PROC13 - PROC19
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6.2 Conditions of use affecting exposure

6.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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6.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19)

Process Categories	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 - Roller application or brushing - Non industrial spraying - Treatment of articles by dipping and pouring - Manual activities involving hand contact (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

6.3 Exposure estimation and reference to its source

N/A

6.4 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.

7. ES 7 Widespread use by professional workers

7.1 TITLE SECTION

Exposure Scenario name	Lubricants (low release)
Date - Version	29/07/2019 - 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	ERC9a - ERC9b
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Worker Contributing Scenario

CS2 General use from professional operators	PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC17 - PROC18
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7.2 Conditions of use affecting exposure

7.2. CS1: Environment Contributing Scenario: Covered by (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
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7.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)

Process Categories	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 - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

7.3 Exposure estimation and reference to its source

N/A

7.4 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.

8. ES 8 Widespread use by professional workers

8.1 TITLE SECTION

Exposure Scenario name	Lubricants (high power)
Date - Version	29/07/2019 - 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 - ERC8d
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Worker Contributing Scenario

CS2 General use from professional operators	PROC20 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC17 - PROC18
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8.2 Conditions of use affecting exposure

8.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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8.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC20, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)

Process Categories	Use of functional fluids in small devices - 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 - Lubrication at high energy conditions in metal working operations - General greasing/lubrication at high kinetic energy conditions (PROC20, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18)
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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 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

8.3 Exposure estimation and reference to its source

N/A

8.4 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.

9. ES 9 Widespread use by professional workers

9.1 TITLE SECTION

Exposure Scenario name	Metal working fluids / rolling oils
Date - Version	29/07/2019 - 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 - ERC8d
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Worker Contributing Scenario

CS2 General use from professional operators	PROC5 - PROC1 - PROC2 - PROC3 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC17
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9.2 Conditions of use affecting exposure

9.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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9.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC5, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17)

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 - 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 - Lubrication at high energy conditions in metal working operations (PROC5, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17)
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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 100 %.

9.3 Exposure estimation and reference to its source

N/A

9.4 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.

10. ES 10 Consumer use; Various products (PC9b, PC9a, PC1, PC4, PC8)

10.1 TITLE SECTION

Exposure Scenario name	Use in coatings
Date - Version	29/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1) - Anti-freeze and de-icing products (PC4) - Biocidal products (PC8) - Non-metal surface treatment products (PC15) - Ink and toners (PC18) - Leather treatment products (PC23) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31) - Textile dyes and impregnating products (PC34)

Environment Contributing Scenario

CS1 Covered by	ERC8a - ERC8d
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Consumer Contributing Scenario

CS2 Use in coatings	PC9b - PC9a - PC1 - PC4 - PC8 - PC15 - PC18 - PC23 - PC24 - PC31 - PC34 - PC9c
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10.2 Conditions of use affecting exposure

10.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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10.2. CS2: Consumer Contributing Scenario: Use in coatings (PC9b, PC9a, PC1, PC4, PC8, PC15, PC18, PC23, PC24, PC31, PC34)

Product Categories	Fillers, putties, plasters, modelling clay - Coatings and paints, thinners, paint removers - Adhesives, sealants - Anti-freeze and de-icing products - Biocidal products - Non-metal surface treatment products - Ink and toners - Leather treatment products - Lubricants, greases, release products - Polishes and wax blends - Textile dyes and impregnating products (PC9b, PC9a, PC1, PC4, PC8, PC15, PC18, PC23, PC24, PC31, PC34)
Product (Sub-)Categories	Finger paints (PC9c)

Product (article) characteristics

Physical form of product:

Liquid

10.3 Exposure estimation and reference to its source

N/A

10.4 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.

11. ES 11 Consumer use; Various products (PC9b, PC9a, PC3, PC4, PC8)

11.1 TITLE SECTION

Exposure Scenario name	Laundry products
Date - Version	29/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a) - Air care products (PC3) - Anti-freeze and de-icing products (PC4) - Biocidal products (PC8) - Lubricants, greases, release products (PC24) - Washing and cleaning products (PC35) - Welding and soldering products, flux products (PC38)

Environment Contributing Scenario

CS1 Covered by	ERC8a - ERC8d
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Consumer Contributing Scenario

CS2 Laundry products	PC9b - PC9a - PC3 - PC4 - PC8 - PC24 - PC35 - PC38 - PC9c
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11.2 Conditions of use affecting exposure

11.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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11.2. CS2: Consumer Contributing Scenario: Laundry products (PC9b, PC9a, PC3, PC4, PC8, PC24, PC35, PC38)

Product Categories	Fillers, putties, plasters, modelling clay - Coatings and paints, thinners, paint removers - Air care products - Anti-freeze and de-icing products - Biocidal products - Lubricants, greases, release products - Washing and cleaning products - Welding and soldering products, flux products (PC9b, PC9a, PC3, PC4, PC8, PC24, PC35, PC38)
Product (Sub-)Categories	Finger paints (PC9c)

Product (article) characteristics

Physical form of product:

Liquid

11.3 Exposure estimation and reference to its source

N/A

11.4 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.

12. ES 12 Consumer use; Various products (PC1, PC24, PC31)

12.1 TITLE SECTION

Exposure Scenario name	Lubricants (low release)
Date - Version	29/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Adhesives, sealants (PC1) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31)

Environment Contributing Scenario

CS1 Covered by	ERC9a - ERC9b
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Consumer Contributing Scenario

CS2 Lubricants	PC1 - PC24 - PC31
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12.2 Conditions of use affecting exposure

12.2. CS1: Environment Contributing Scenario: Covered by (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
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12.2. CS2: Consumer Contributing Scenario: Lubricants (PC1, PC24, PC31)

Product Categories	Adhesives, sealants - Lubricants, greases, release products - Polishes and wax blends (PC1, PC24, PC31)
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Product (article) characteristics

Physical form of product:

Liquid

12.3 Exposure estimation and reference to its source

N/A

12.4 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.

13. ES 13 Consumer use; Various products (PC1, PC24, PC31)

13.1 TITLE SECTION

Exposure Scenario name	Lubricants (high release)
Date - Version	29/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Adhesives, sealants (PC1) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31)

Environment Contributing Scenario

CS1 Covered by	ERC8a - ERC8d
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Consumer Contributing Scenario

CS2 Lubricants	PC1 - PC24 - PC31
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13.2 Conditions of use affecting exposure

13.2. CS1: Environment Contributing Scenario: Covered by (ERC8a, ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
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13.2. CS2: Consumer Contributing Scenario: Lubricants (PC1, PC24, PC31)

Product Categories	Adhesives, sealants - Lubricants, greases, release products - Polishes and wax blends (PC1, PC24, PC31)
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13.3 Exposure estimation and reference to its source

N/A

13.4 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, 10/07/2019

Substance identity	
Chemical name	2-Aminoetanolo
CAS No.	141-43-5
EINECS No.	205-483-3

Table of contents

1. **ES 1** Consumer use; Washing and cleaning products (PC35)
2. **ES 2** Widespread use by professional workers; Washing and cleaning products (PC35)
3. **ES 3** Use at industrial site; Polymer preparations and compounds (PC32)

1. ES 1 Consumer use; Washing and cleaning products (PC35)

1.1 TITLE SECTION

Exposure Scenario name	Consumer goods
Date - Version	10/07/2019 - 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 Water-based process ERC8d

Consumer Contributing Scenario

CS2 Detergent liquids PC35

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Water-based process (ERC8d)

Environmental release categories Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)

Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual amount per site 60000000 kg

Release type: Continuous release

Emission days: 365 days per year

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

Waste treatment

Contain and dispose of waste according to local regulations.

Waste - minimum efficiency of: 87 %

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 18000 m³/day

Covers indoor and outdoor use

1.2. CS2: Consumer Contributing Scenario: Detergent liquids (PC35)

Product Categories Washing and cleaning products (PC35)

Product (article) characteristics

Vapour pressure:

0.539 hPa

Concentration of substance in product:

Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Duration:

Application duration 0.3 min

Frequency:

Covers exposure up to 365 days per year

Duration:

Exposure duration 0.75 min

Information and behavioural advice for consumers**Information and behavioural advice for consumers:**

Avoid contact with eyes

Other conditions affecting consumers exposure**Room size:** Covers use in room size of 1 m³**Ventilation rate:** Covers use under typical household ventilation.**Body parts exposed:**

Palm of one hand Hands and forearms

1.3 Exposure estimation and reference to its source**1.3. CS1: Environment Contributing Scenario: Water-based process (ERC8d)**

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	9.6 kg/d	ECETOC TRA environment v2.0	0.514

1.2. CS2: Consumer Contributing Scenario: Detergent liquids (PC35)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	0.01 mg/m ³	N/A	0.01
inhalative, systemic, short-term	0.01 mg/m ³	N/A	0.01
dermal, systemic, long-term	0.008 mg/kg KW	N/A	0.03
dermal, systemic, long-term	0.002 mg/kg KW	N/A	0.01
oral, systemic, long-term	0.002 mg/kg KW	N/A	0.01

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; Washing and cleaning products (PC35)

2.1 TITLE SECTION

Exposure Scenario name	Cleaning agent
Date - Version	10/07/2019 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Washing and cleaning products (PC35)

Environment Contributing Scenario

CS1 Water-based process	ERC8d
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Worker Contributing Scenario

CS2 Cleaning	PROC3
CS3 Cleaning	PROC8a
CS4 Cleaning	PROC10
CS5 Cleaning	PROC7 - PROC11
CS6 Cleaning	PROC13
CS7 Cleaning	PROC19

2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Water-based process (ERC8d)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8d)
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*Product (article) characteristics***Physical form of product:**

Liquid

Concentration of substance in product:

Covers concentrations up to 10 %

*Amount used, frequency and duration of use (or from service life)***Amounts used:**

Annual amount per site 65000000 kg

Release type: Continuous release**Emission days:** 220 days per year*Conditions and measures related to sewage treatment plant***STP type:**

Municipal Sewage Treatment Plant

Water - minimum efficiency of: = 87 %

Additional information on STP:

Acclimated biological treatment

STP sludge treatment:

STP effluent (m³/day): 2300

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

Waste treatment

Product residual disposal complies with applicable regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 1800 m³/day

Covers indoor and outdoor use

2.2. CS2: Worker Contributing Scenario: Cleaning (PROC3)

Process Categories

Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

0.539 hPa

Concentration of substance in product:

Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Frequency:

Covers use up to 240 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Ensure that direct skin contact is avoided.

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

Personal protection

Wear suitable gloves tested to EN374.	Dermal - minimum efficiency of: 98 %
Wear suitable respiratory protection.	Dermal - minimum efficiency of: 90 %
Use suitable eye protection.	

Other conditions affecting worker exposure

Indoor use

Ventilation rate: Provide forced ventilation 80 %

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.

2.2. CS3: Worker Contributing Scenario: Cleaning (PROC8a)

Process Categories

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

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

0.539 hPa

Concentration of substance in product:

Covers concentrations up to 10 %

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

Covers daily exposures up to 8 hours

Frequency:

Covers use up to 240 days per year

*Technical and organisational conditions and measures***Technical and organisational measures**

Ensure that direct skin contact is avoided.

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

Wear suitable gloves tested to EN374.	Derma - minimum efficiency of: 98 %
Wear suitable respiratory protection.	Derma - minimum efficiency of: 90 %
Use suitable eye protection.	

Other conditions affecting worker exposure

Indoor use

Ventilation rate: Provide forced ventilation 80 %*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.

2.2. CS4: Worker Contributing Scenario: Cleaning (PROC10)**Process Categories**

Roller application or brushing (PROC10)

*Product (article) characteristics***Physical form of product:**

Liquid

Vapour pressure:

0.539 hPa

Concentration of substance in product:

Covers concentrations up to 10 %

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

Covers daily exposures up to 8 hours

Frequency:

Covers use up to 240 days per year

*Technical and organisational conditions and measures***Technical and organisational measures**

Ensure that direct skin contact is avoided.

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

Personal protection

Wear suitable gloves tested to EN374.	Dermal - minimum efficiency of: 98 %
Wear suitable respiratory protection.	Dermal - minimum efficiency of: 90 %
Use suitable eye protection.	

Other conditions affecting worker exposure

Indoor use

Ventilation rate: Provide forced ventilation 80 %

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.

2.2. CS5: Worker Contributing Scenario: Cleaning (PROC7, PROC11)

Process Categories Industrial spraying - Non industrial spraying (PROC7, PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

0.539 hPa

Concentration of substance in product:

Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

Frequency:

Covers use up to 240 days per year

Technical and organisational conditions and measures

Technical and organisational measures

Ensure that direct skin contact is avoided.

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

Personal protection

Wear suitable gloves tested to EN374.	Dermal - minimum efficiency of: 98 %
Wear suitable respiratory protection.	Dermal - minimum efficiency of: 90 %
Use suitable eye protection.	

Other conditions affecting worker exposure

Indoor use

Ventilation rate: Provide forced ventilation 80 %

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.

2.2. CS6: Worker Contributing Scenario: Cleaning (PROC13)

Process Categories	Treatment of articles by dipping and pouring (PROC13)
Product (article) characteristics	
Physical form of product: Liquid	
Vapour pressure: 0.539 hPa	
Concentration of substance in product: Covers concentrations up to 10 %	
Amount used, frequency and duration of use/exposure	
Duration: Covers daily exposures up to 8 hours	
Frequency: Covers use up to 240 days per year	
Technical and organisational conditions and measures	
Technical and organisational measures Ensure that direct skin contact is avoided.	
Conditions and measures related to personal protection, hygiene and health evaluation	
Personal protection	
Wear suitable gloves tested to EN374.	Dermal - minimum efficiency of: 98 %
Wear suitable respiratory protection.	Dermal - minimum efficiency of: 90 %
Use suitable eye protection.	
Other conditions affecting worker exposure	
Indoor use	
Ventilation rate: Provide forced ventilation 80 %	
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.	
2.2. CS7: Worker Contributing Scenario: Cleaning (PROC19)	
Process Categories	Manual activities involving hand contact (PROC19)
Product (article) characteristics	
Physical form of product: Liquid	
Vapour pressure: 0.539 hPa	
Concentration of substance in product: Covers concentrations up to 10 %	
Amount used, frequency and duration of use/exposure	
Duration: Covers daily exposures up to 8 hours	
Frequency: Covers use up to 240 days per year	
Technical and organisational conditions and measures	

Technical and organisational measures

Ensure that direct skin contact is avoided.

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

Personal protection

Wear suitable gloves tested to EN374.	Derma - minimum efficiency of: 98 %
Wear suitable respiratory protection.	Derma - minimum efficiency of: 90 %
Use suitable eye protection.	

Other conditions affecting worker exposure

Indoor use

Ventilation rate: Provide forced ventilation 80 %

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.

2.3 Exposure estimation and reference to its source

2.3. CS1: Environment Contributing Scenario: Water-based process (ERC8d)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	9343 kg/d	ECETOC TRA environment v2.0	0.482

2.3. CS2: Worker Contributing Scenario: Cleaning (PROC3)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.01 mg/kg KW	ECETOC TRA worker v2.0	0.01
inhalative, systemic, long-term	0.15 mg/m ³	ECETOC TRA worker v2.0	0.05
inhalative, systemic, short-term	0.15 mg/m ³	ECETOC TRA worker v2.0	0.05

2.3. CS3: Worker Contributing Scenario: Cleaning (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.03 mg/kg KW	ECETOC TRA worker v2.0	0.03
inhalative, systemic, long-term	1.27 mg/m ³	ECETOC TRA worker v2.0	0.39

2.3. CS4: Worker Contributing Scenario: Cleaning (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.05 mg/kg KW	ECETOC TRA worker v2.0	0.05

inhalative, systemic, long-term	0.76 mg/m ³	ECETOC TRA worker v2.0	0.23
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2.3. CS5: Worker Contributing Scenario: Cleaning (PROC7, PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.21 mg/kg KW	ECETOC TRA worker v2.0	0.21
inhalative, systemic, long-term	1.53 mg/m ³	ECETOC TRA worker v2.0	0.46

2.3. CS6: Worker Contributing Scenario: Cleaning (PROC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.03 mg/kg KW	ECETOC TRA worker v2.0	0.03
inhalative, systemic, long-term	0.25 mg/m ³	ECETOC TRA worker v2.0	0.08

2.3. CS7: Worker Contributing Scenario: Cleaning (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.28 mg/kg KW	ECETOC TRA worker v2.0	0.28
inhalative, systemic, long-term	0.38 mg/m ³	ECETOC TRA worker v2.0	0.12

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

Use at industrial site; Polymer preparations and compounds (PC32)

3.1 TITLE SECTION

Exposure Scenario name	Additive
Date - Version	10/07/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Product Categories	Polymer preparations and compounds (PC32)

Environment Contributing Scenario

CS1 Solvent-based process	ERC5
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Worker Contributing Scenario

CS2 Additive	PROC14
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3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC5)

Environmental release categories	Use at industrial site leading to inclusion into/onto article (ERC5)
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*Product (article) characteristics***Concentration of substance in product:**

Covers percentage substance in the product up to 100 %.

*Amount used, frequency and duration of use (or from service life)***Amounts used:**

Annual amount per site 6720000 kg

Release type: Continuous release**Emission days:** 365 days per year*Conditions and measures related to sewage treatment plant***STP type:**

Municipal Sewage Treatment Plant

Water - minimum efficiency of: = 87 %

Additional information on STP:

Biological elimination

STP sludge treatment:

No application of sewage sludge to soil

STP effluent (m³/day): 2300*Conditions and measures related to treatment of waste (including article waste)***Waste treatment**

Do not apply industrial sludge to natural soils.

*Other conditions affecting environmental exposure***Local marine water dilution factor:** 100**Local freshwater dilution factor:** 10**Receiving surface water flow:** 18000 m³/day

3.2. CS2: Worker Contributing Scenario: Additive (PROC14)

Process Categories	Tabletting, compression, extrusion, pelletisation, granulation (PROC14)		
Product (article) characteristics			
Physical form of product: Liquid			
Vapour pressure: 0.539 hPa			
Concentration of substance in product: Covers percentage substance in the product up to 100 %.			
Amount used, frequency and duration of use/exposure			
Duration: Covers use up to 480 min			
Frequency: Covers frequency up to: 240 days per year			
Conditions and measures related to personal protection, hygiene and health evaluation			
Personal protection			
Use suitable eye protection.			
Wear suitable gloves tested to EN374.		Inhalation - minimum efficiency of: 90 %	
Other conditions affecting worker exposure			
Indoor use			
Ventilation rate: Provide forced ventilation 90 %			
3.3 Exposure estimation and reference to its source			
3.3. CS1: Environment Contributing Scenario: Solvent-based process (ERC5)			
protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	6.28 kg/d	N/A	N/A
3.3. CS2: Worker Contributing Scenario: Additive (PROC14)			
Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	0.07 mg/kg bw/day	ECETOC TRA worker v3	0.07
inhalative, systemic, long-term	1.27 mg/m ³	ECETOC TRA worker v3	0.39
inhalative, local, long-term	1.27 mg/m ³	ECETOC TRA worker v3	0.39
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.			