Ohutuskaart
SVITOL BIKE DISC BRAKE

DETERGENT

Ohutuskaart 17/10/2024, redaktsioon 3

1. JAGU. Aine/segu ning äriühingu/ettevõtja identifitseerimine

1.1. Tootetähis

Segu identifitseerimine:

Ärinimi: SVITOL BIKE DISC BRAKE
DETERGENT

Ärikood: 4483

1.2. Aine või segu asjaomased kindlaksmääratud kasutusalad ning kasutusalad, mida ei soovitata

Soovitatav kasutamine:

Pidurikomponentide ja metallosade puhastaja.

Ebasoovitatav kasutamine:

Järgige soovitatavaid kasutusviise rangelt.

1.3. Andmed ohutuskaardi tarnija kohta

Tarnija:
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

Pädev ohutuskaardi eest vastutav isik:

arexons@arexons.it

1.4. Hädaabitelefoni number

Arexons S.p.A.
Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306
National emergency telephone number (Häirekeskuse number) is 112
Mürgistusteabekeskus 16662; Infoliin on avatud E-T 9.00 – 21.00;
Välisriigist helistades (+372) 7943 794

2. JAGU. Ohtude identifitseerimine

2.1. Aine või segu klassifitseerimine

Määruse CE 1272/2008 (CLP) kriteeriumid:

- Ettevaatust, Aerosols 1, Eriti tuleohtlik aerosool. Mahuti on rõhu all: kuumenemisel võib lõhkeda.
- Hoiatus, Skin Irrit. 2, Põhjustab nahaärritust.
- Hoiatus, Eye Irrit. 2, Põhjustab tugevat silmade ärritust.
- Hoiatus, STOT SE 3, Võib põhjustada unisust või peapööritust.
- Aquatic Chronic 2, Mürgine veeorganismidele, pikaajaline toime.

EUH066 Korduv kokkupuude võib põhjustada naha kuivust või lõhenemist.

Kahjulikud füüsikalis-keemilised, tervistkahjustavad ja keskkonnaohtlikud mõjud:

Muud ohud puuduvad

2.2. Märgistuselemendid

Ohupiktogrammid:

Ettevaatust

Ohulaused:

H222, H229 Eriti tuleohtlik aerosool. Mahuti on rõhu all: kuumenemisel võib lõhkeda.
H315 Põhjustab nahaärritust.
H319 Põhjustab tugevat silmade ärritust.

H336 Võib põhjustada unisust või peapööritust.
H411 Mürgine veeorganismidele, pikaajaline toime.

Hoiatuslaused:

P101 Arsti poole pöördudes võtta kaasa toote pakend või etikett.
P102 Hoida lastele kättesaamatus kohas.
P103 Lugeda tähelepanelikult ja järgida kõiki juhiseid.
P210 Hoida eemal soojusallikast, kuumadest pindadest, sädemetest, leekidest ja muudest süüteallikatest. Mitte suitsetada.
P211 Mitte pihustada leekidesse või muusse süüteallikasse.
P251 Mitte purustada ega põletada isegi pärast kasutamist.
P271 Käidelda üksnes välitingimustes või hästi ventileeritavas kohas.
P273 Vältida sattumist keskkonda.
P391 Mahavoolanud toode kokku koguda.
P405 Hoida lukustatult.
P410+P412 Hoida päikesevalguse eest. Mitte hoida temperatuuril üle 50 °C/122 °F.
P501 Sisu/mahuti kõrvaldada vastavalt eeskirjadele.

Erisätted:

EUH066 Korduv kokkupuude võib põhjustada naha kuivust või lõhenemist.

Sisaldab

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
C6 hydrocarbons isoalcane < 5% n- Hexane
propaan-2-ool; isopropüülalkohol; isopropanool

Erisätted vastavalt REACH-i XVII lisale ja järgmistele parandustele:

Määratlemata

Euroopa Parlamendi ja nõukogu määrus (EÜ) nr 648/2004 (detergentide).
Toode sisaldab:
Alifaatsed süsivesinikud > 30 %

2.3. Muud ohud

>= 0,1% kontsentratsioon ei sisalda PBT, vPvB või endokriinfunktsiooni kahjustavaid aineid.

Muud ohud

Muud ohud puuduvad

3. JAGU. Koostis / teave koostisainete kohta

3.1. Ained

N.A.

3.2. Segud

Ohtlikud koostisosad CLP-määruse tähenduses ning järgmise klassifikatsiooni alusel:

>= 50% - < 60%	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	EC: REACH No.:	927-510-4 01-2119475515-33	2.6/2 Flam. Liq. 2 H225 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.8/3 STOT SE 3 H336 4.1/C2 Aquatic Chronic 2 H411 EUH066
>= 20% - < 25%	C6 hydrocarbons isoalcane < 5% n-Hexane	CAS: EC: REACH No.:	64742-49-0 931-254-9 01-2119484651-34	2.6/2 Flam. Liq. 2 H225 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.8/3 STOT SE 3 H336 4.1/C2 Aquatic Chronic 2 H411
>= 15% - < 20%	propaan-2-ool; isopropüülalkohol; isopropanool	Number Index: CAS:	603-117-00-0 67-63-0	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336

		EC: REACH No.:	200-661-7 01-2119457558-25	
>= 3% - < 5%	Chilled liquid carbon dioxide	CAS: EC:	124-38-9 204-696-9	2.5/RL Press Gas (Ref. Liq.) H281

4. JAGU. Esmaabimeetmed

4.1. Esmaabimeetmete kirjeldus

Nahale sattumisel:

Võtta koheselt seljast saastunud riietus.
Tootega kokku puutunud kehapiirkonnad tuleb loputada viivitamatult rohke voolava veega ning võimaluse korral pesta seebiga. Sama tuleb teha kokkupuutekahtluse korral.
Pesta keha hoolikalt (duši all või vannis).
Võtta kohe ära saastunud rõivad ja kõrvaldada need ohutult.
Nahale sattumisel pesta kohe rohke seebi ja veega.

Silma sattumisel:

Silma sattumisel loputada avatud silmi veega, seejärel võtta kohe ühendust silmaarstiga.
Kaitsta kahjustamata silma.

Allaneelamisel:

Mitte mingil juhul ei tohi esile kutsuda oksendamist. PÖÖRDUDA VIIVITAMATULT ARSTI POOLE.

Sissehingamisel:

Viia kannatanu värske õhu kätte ning hoida soojas ja puhkeasendis.

4.2. Olulisemad akuutsed ja hilisemad sümptomid ning mõju

Määratlemata

4.3. Märge igasuguse vältimatu meditsiiniabi ja eriravi vajalikkuse kohta

Õnnetusjuhtumi või haigusnähtude korral pöörduda kohe arsti poole (võimaluse korral näidata talle etiketti või ohutuskaarti).
Ravi:
Määratlemata

5. JAGU. Tulekustutusmeetmed

5.1. Tulekustutusvahendid

Sobiv kustutusvahend:
Susinikdioksiidiga.
vaht
Pulbriline.
Veepihusti
Tulekustutusvahendid, mida ei soovitata:
Ärge kasutage otseseid veejugasid

5.2. Aine või seguga seotud erilised ohud

Põlemisel tekib paks suits.

5.3. Nõuanded tuletõrjujatele

Tavaline riietus tulekahju kustutamiseks, näiteks avatud ahelaga suruõhuhingamisaparaat (EN 137), tulekindel ülikond (EN469), tulekindlad kindad (EN 659) ja tuletõrjujate saapad (HO A29 või A30).

6. JAGU. Meetmed juhusliku sattumise korral keskkonda

6.1. Isikukaitsemeetmed, kaitsevahendid ja toimimine hädaolukorras

Kasutada isikukaitsevahendeid.
Kõrvaldada kõik süttimisallikad.

Juhatada inimesed ohutusse kohta.
Vaadake jaotistes 7 ja 8 toodud kaitsemeetmeid.

6.2. Keskkonnakaitse meetmed
Mitte lasta imbuda pinnasesse/aluspinnasesse. Mitte lasta sattuda pinnavette ega kanalisatsiooni.
Koguda saastunud pesuvesi kokku ja kõrvaldada kasutuselt.
Gaasilekke korral või aine imbumisel vette, pinnasesse või kanalisatsiooni teavitada sellest vastutavat ametiasutust.
Kogumiseks sobiv materjal: absorbeeriv materjal, orgaaniline, liiv.

6.3. Tõkestamis- ning puhastamismeetodid ja -vahendid
Puhastusmeetmed:
Vältige leeke ja/või sädemeid lekke ja jääkide lähedal. Ärge suitsetage. Suurte lekete korral piirake leket,
image ja kühveldage see utiliseerimiseks sobivatesse mahutitesse. Väikeseid lekkeid võib eemaldada
imava materjaliga. Asetage määrdunud materjal sobivasse mahutisse. Utiliseerige määrdunud materjal,
järgides kohalikke või riiklikke määruseid.

6.4. Viited muudele jagudele
Vaadake ka jaotisi 8 ja 13

7. JAGU. Käitlemine ja ladustamine

7.1. Ohutu käitlemise tagamiseks vajalikud ettevaatusabinõud
Vältida kemikaali sattumist nahale ja silma; vältida kokkupuudet aurude ja uduga ning nende sissehingamist.
Mitte kasutada puhastamata tühja mahutit.
Enne aine sisestamist uude mahutisse tuleb veenduda, et selles ei leidu kokkusobimatute materjalide jääke.
Soovitatavad isikukaitsevahendid on toodud jaotises 8.
Soovitused üldise tööhügieeni alal:
Enne söömisalasse sisenemist vahetada saastunud riided puhaste vastu.
Käitlemise ajal söömine ja joomine keelatud.

7.2. Ohutu ladustamise tingimused, sealhulgas sobimatud ladustamistingimused
Sailitada ainult originaalpakendis.
Hoida temperatuuril alla 50 °C. Hoida eemal avatud leegist ja soojusallikatest. Kaitsta päikese eest.
Hoida eemal avatud leegist ja soojusallikatest. Kaitsta päikese eest.
Hoida eemal toiduainest, joogist ja loomasöödast.
Määratlemata.
Nõuded ruumidele:
Värsked ja hästi ventileeritud.

7.3. Erikasutus
Ei ole.

8. JAGU. Kokkupuute ohjamine/isikukaitse

8.1. Kontrolliparameetrid
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
EL
C6 hydrocarbons isoalcane < 5% n- Hexane - CAS: 64742-49-0
ACGIH - TWA: 1200 mg/m3, 353 ppm
propaan-2-ool; isopropüülalkohol; isopropanool - CAS: 67-63-0
20101.11 - TWA: 983 mg/m3, 400 ppm
20101.12 - TWA: 492 mg/m3, 200 ppm
ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Märkused: A4, BEI - Eye and URT irr, CNS impair
Chilled liquid carbon dioxide - CAS: 124-38-9
EL - TWA(8h): 9000 mg/m3, 5000 ppm

ACGIH - TWA(8h): 5000 ppm - STEL: 30000 ppm - Märkused: Asphyxia

DNEL piirnormide väärtused

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Professionaalne töötaja: 300 mg/kg - Kokkupuude: Nahakaudne, inimene - Sagedus: Pikaajaline, süsteemne toime

Professionaalne töötaja: 508 ppm - Kokkupuude: Sissehingatud, inimene - Sagedus: Lühiajaline, süsteemne toime

Tarbija: 149 mg/kg - Kokkupuude: Nahakaudne, inimene - Sagedus: Pikaajaline, süsteemne toime

Tarbija: 109 ppm - Kokkupuude: Sissehingatud, inimene - Sagedus: Pikaajaline, süsteemne toime

Tarbija: 149 mg/kg - Kokkupuude: Suukaudne, inimene - Sagedus: Pikaajaline, süsteemne toime

C6 hydrocarbons isoalcane < 5% n- Hexane - CAS: 64742-49-0

Professionaalne töötaja: 1508 ppm - Kokkupuude: Sissehingatud, inimene - Sagedus: Pikaajaline, süsteemne toime - Märkused: (idrocarburi C6 isoalcani < 5% n-Esano)

Professionaalne töötaja: 13964 mg/kg - Kokkupuude: Nahakaudne, inimene - Sagedus: Pikaajaline, süsteemne toime

Professionaalne töötaja: 323 ppm - Kokkupuude: Sissehingatud, inimene - Sagedus: Pikaajaline, süsteemne toime

Professionaalne töötaja: 1377 mg/kg - Kokkupuude: Nahakaudne, inimene - Sagedus: Pikaajaline, süsteemne toime

Professionaalne töötaja: 1301 mg/kg - Kokkupuude: Suukaudne, inimene - Sagedus: Pikaajaline, süsteemne toime

propaan-2-ool; isopropüülalkohol; isopropanool - CAS: 67-63-0

Professionaalne töötaja: 888 mg/kg - Tarbija: 319 mg/kg - Kokkupuude: Nahakaudne, inimene - Sagedus: Pikaajaline (korduv)

Professionaalne töötaja: 500 mg/m3 - Tarbija: 89 mg/m3 - Kokkupuude: Sissehingatud, inimene - Sagedus: Pikaajaline (korduv)

Tarbija: 26 mg/kg - Kokkupuude: Suukaudne, inimene - Sagedus: Pikaajaline (korduv)

PNEC piirnormide väärtused

propaan-2-ool; isopropüülalkohol; isopropanool - CAS: 67-63-0

Sihtmärk: Magevesi - Väärtus: 140.9 mg/l

Sihtmärk: Magevesi - Väärtus: 140.9 mg/l

Sihtmärk: Magevee setted - Väärtus: 552 mg/l

Sihtmärk: Pinnas (põllumajanduslik) - Väärtus: 28 mg/kg

Sihtmärk: Mikroorganismid reoveekäitluses - Väärtus: 2251 mg/l

8.2. Kokkupuute ohjamine

Silmade kaitsmine:

Kaitseprillid

EN 166 nõuetele vastav

Naha kaitsmine:

kaitseriietus

Käte kaitsmine:

Nitriilist voi Viton-materjalist kindad.

Vastavad standardile EN 374.

Paksus: Ranne 0,10 mm; peopesa 0,12 mm; sõrmed 0,145 mm

Hingamisteede kaitse:

Termilised ohud:

Määratlemata

Kokkupuudete ohjamine keskkonnas:

Määratlemata

Asjakohane tehniline kontroll:

Määratlemata

9. JAGU. Füüsikalised ja keemilised omadused

9.1. Teave üldiste füüsikaliste ja keemiliste omaduste kohta

Omadused	Väärtus	Meetod:	Märkused
Füüsikaline olek:	Vedelik	--	--
Värv:	värvitu	--	--
Lõhn:	N.A.	--	--
Sulamis-/külmumispunkt:	N.A.	--	--
Keemispunkt, keemise algpunkt ja keemisvahemik:	N.A.	--	--
Süttivus:	N.A.	--	--
Alumine ja ülemine plahvatuspiir:	N.A.	--	--
Leekpunkt:	<0°C	08	--
Isesüttimistemperatuur:	N.A.	--	--
Lagunemistemperatuur:	N.A.	--	--
pH:	N.A.	--	--
Kinemaatiline viskoossus:	N.A.	--	--
Lahustuvus vees:	N.A.	--	--
Lahustuvus õlis:	N.A.	--	--
N-oktanool/vesi jaotustegur (logaritmiline väärtus):	N.A.	--	--
Aururõhk:	N.A.	--	--
Tihedus ja/või suhteline tihedus:	0,720 g/cm3	09	--
Auru suhteline tihedus:	N.A.	--	--
Osakeste omadused:			
Osakese suurus:	N.A.	--	--

9.2. Muu teave
Puudub muu asjakohane teave

10. JAGU. Püsivus ja reaktsioonivõime

10.1. Reaktsioonivõime
Tavatingimustes püsiv

10.2. Keemiline stabiilsus
Stabiilne normaalsel keskkonnatemperatuuril ja kui kasutatakse soovitatud moel.

10.3. Ohtlike reaktsioonide võimalikkus
Määratlemata
10.4. Tingimused, mida tuleb vältida
Liigne kuumus.
10.5. Kokkusobimatud materjalid
Vältida kokkupuudet oksüdeerivate materjalidega. Toode võib süttida.
10.6. Ohtlikud lagusaadused
Määratlemata.

11. JAGU. Teave toksilisuse kohta

11.1. Teave ohuklasside kohta, nagu see on määratletud määruses (EÜ) nr 1272/2008
Toote toksikoloogiline teave:
SVITOL BIKE DISC BRAKES DETERGENT CLUSTER 502
a) akuutne toksilisus
Liigitamatu
Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.
b) nahka söövitav/ärritav
Toode on klassifitseeritud järgmiselt: Skin Irrit. 2 H315
c) rasket silmade kahjustust/ärritust põhjustav
Toode on klassifitseeritud järgmiselt: Eye Irrit. 2 H319
d) hingamisteede või naha ülitundlikkust põhjustav
Liigitamatu
Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.
e) mutageensus sugurakkudele
Liigitamatu
Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.
f) kantserogeensus
Liigitamatu
Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.
g) reproduktiivtoksilisus
Liigitamatu
Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.
h) sihtorgani suhtes toksilised – ühekordne kokkupuude
Toode on klassifitseeritud järgmiselt: STOT SE 3 H336
i) sihtorgani suhtes toksilised – korduv kokkupuude
Liigitamatu
Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.
j) hingamiskahjustus
Liigitamatu
Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.
Toote põhikomponentide toksikoloogiline teave:
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
a) akuutne toksilisus:
Katse: LC50 - Marsruut: Sissehingamine - Liigid: Rott > 23.3 mg/l - Kestvus: 4h
Katse: LD50 - Marsruut: Suukaudne - Liigid: Rott > 8 ml/kg
Katse: LD50 - Marsruut: Nahakaudne - Liigid: Jänes 2800-3100 mg/kg
C6 hydrocarbons isoalcane < 5% n- Hexane - CAS: 64742-49-0
a) akuutne toksilisus:
Katse: LC50 - Marsruut: Sissehingamine - Liigid: Rott > 20 mg/l - Kestvus: 4h
Katse: LD50 - Marsruut: Suukaudne - Liigid: Rott > 5000 mg/kg
Katse: LC50 - Marsruut: Nahakaudne - Liigid: Jänes > 3000 mg/kg
Katse: LC50 - Marsruut: Sissehingamine - Liigid: Rott > 20 mg/l - Kestvus: 4h - Allikas: OECD 403 - Märkused: (idrocarburi C6 isoalcani < 5% n-Esano)
Katse: LD50 - Marsruut: Suukaudne - Liigid: Rott > 5000 ml/kg - Allikas: OCSE 401 - Märkused: (idrocarburi C6 isoalcani < 5% n-Esano)
Katse: LD50 - Marsruut: Nahakaudne - Liigid: Jänes > 5 ml/kg - Allikas: Read across - Märkused: (idrocarburi C6 isoalcani < 5% n-Esano)

propaan-2-ool; isopropüülalkohol; isopropanool - CAS: 67-63-0
a) akuutne toksilisus:
Katse: LD50 - Marsruut: Suukaudne - Liigid: Rott = 5840 mg/kg
Katse: LD50 - Marsruut: Nahakaudne - Liigid: Jänes = 16.4 ml/kg
Katse: LC50 - Marsruut: Sissehingamine - Liigid: Rott > 10000 ppm - Kestvus: 6h
g) reproduktiivtoksilisus:
Katse: NOAEL(C) - Marsruut: Suukaudne - Liigid: Jänes 480 mg/kg

11.2. Teave muude ohtude kohta
Endokriinseid häireid põhjustavad omadused:
>= 0,1% kontsentratsioon ei sisalda endokriinfunktsiooni kahjustavaid aineid

12. JAGU. Ökoloogiline teave

12.1. Mürgisus
Kasutada vastavalt headele tavadele, vältida toote sattumist keskkonda.
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
b) Vesikeskkonnale avalduv krooniline toksilisus:
Lõpp-punkt: EC50 - Liigid: Vetikad > 10-30 mg/l - Kestus (h): 72
Lõpp-punkt: LC50 - Liigid: Kala > 13.4 mg/l - Kestus (h): 96
C6 hydrocarbons isoalcane < 5% n- Hexane - CAS: 64742-49-0
a) Vesikeskkonnale avalduv akuutne toksilisus:
Lõpp-punkt: EC50 - Liigid: Vetikad = 13.56 mg/l - Kestus (h): 72 - Märkused: (QSAR)
Lõpp-punkt: LC50 - Liigid: Kala > 1 mg/l - Märkused: (idrocarburi C6 isoalcani < 5% n-Esano) Read across
Lõpp-punkt: EC50 - Liigid: Vesikirp = 37.9 mg/l - Kestus (h): 48 - Märkused: (idrocarburi C6 isoalcani < 5% n-Esano) QSAR
propaan-2-ool; isopropüülalkohol; isopropanool - CAS: 67-63-0
a) Vesikeskkonnale avalduv akuutne toksilisus:
Lõpp-punkt: LC50 - Liigid: Kala 9640 mg/l - Kestus (h): 96
Lõpp-punkt: LC50 - Liigid: Kala > 100 mg/l - Kestus (h): 48
Lõpp-punkt: EC50 - Liigid: Vesikirp > 10000 mg/l - Kestus (h): 48
Lõpp-punkt: EC50 - Liigid: Vetikad > 1800 mg/l - Kestus (h): 72

12.2. Püsivus ja lagunduvus
Määratlemata
propaan-2-ool; isopropüülalkohol; isopropanool - CAS: 67-63-0
Biolagundatavus: Kiiresti lagunev - Kestus (h): .10gg - %: 70

12.3. Bioakumulatsioon
N.A.

12.4. Liikuvus pinnases
N.A.

12.5. Püsivate, bioakumuleeruvate ja toksiliste ning väga püsivate ja väga bioakumuleeruvate omaduste hindamine
vPvB ained: Määratlemata - PBT ained: Määratlemata

12.6. Endokriinseid häireid põhjustavad omadused
>= 0,1% kontsentratsioon ei sisalda endokriinfunktsiooni kahjustavaid aineid

12.7. Muu kahjulik mõju
Määratlemata

13. JAGU. Jäätmekäitlus

13.1. Jäätmetöötlusmeetodid
Võimalusel ümber töödelda. Hoolikult toimetada töötlemis- või tuhastamisettevõttesse. Käsitleda vastavalt kohalikkele normidele.
Lisateave kõrvaldamise kohta:
"Kasutada vastavalt headele töötavadele, vältides toote sattumist keskkonda.
Mitte valada kanalisatsiooni, tunnelitesse ega veekogudesse. Järgida kehtivaid vee ja pinnase kaitset reostuse eest käsitlevaid õigusnorme (seadusandlik Dekreet nr 152, 3.-4.4.2006).
Kõrvaldage kasutatud toode ja mahutid, andes need üle volitatud ettevõtetele, järgides

määruses sisalduvaid seaduslikke sätteid
Dekreet nr 152/2006 (Konsolideeritud Keskkonnaseadus, mis asendas Ronchi Dekreedi) ja hilisemad muudatused.
Kasutatud toodet tuleb käsitada erijäätmetena, mis tuleb liigitada vastavalt jäätmeid ja nendega seotud küsimusi käsitlevale Direktiivile 2008/98/EÜ. Võimaluse korral taastada. Saatke volitatud jäätmekäitluskohtadesse või põletamiseks teatud kontrollitud tingimustel
(152/2006 art. 184).
Toimige vastavalt kehtivatele kohalikele ja riiklikele eeskirjadele.
Saastunud pakendid tuleb tühjendada nii hästi, kui võimalik. Pärast puhastamist viige ringlusse või kõrvaldage volitatud jäätmejaamades."

14. JAGU. Veonõuded

14.1. ÜRO number või ID number

ADR-UN Number:	1950
IATA-UN Number:	1950
IMDG-UN Number:	1950

14.2. ÜRO veose tunnusnimetus

ADR-Shipping Name:	AEROSOOLID, kergestisüttivad
IATA-Shipping Name:	AEROSOOLID, kergestisüttivad
IMDG-Shipping Name:	AEROSOOLID, kergestisüttivad

14.3. Transpordi ohuklass(id)

ADR-Class:	2
ADR - Ohu identifitseerimisnumber:	-
IATA-Class:	2
IATA-Label:	2.1
IMDG-Class:	2

14.4. Pakendigrupp

ADR-Packing Group:	-
IATA-Packing group:	-
IMDG-Packing group:	-

14.5. Keskkonnaohud

ADR-keskkonnaohtlik saasteaine:	Jah
IMDG-Marine pollutant:	Marine Pollutant
IMDG-EmS:	F-D, S-U

14.6. Eriettevaatusabinõud kasutajatele

ADR-Subsidiary hazards:	See SP63
ADR-S.P.:	190 327 344 625
ADR-Veo kategooria (Tunneli kood):	2 (D)
IATA-Passenger Aircraft:	203
IATA-Subsidiary hazards:	See SP63
IATA-Cargo Aircraft:	203
IATA-S.P.:	A145 A167 A802
IATA-ERG:	10L
IMDG-Subsidiary hazards:	See SP63
IMDG-Stowage and handling:	SW1 SW22
IMDG-Segregation:	SG69

14.7. Mahtlasti merevedu kooskõlas Rahvusvahelise Mereorganisatsiooni dokumentidega
N.A.
Limited Quantity: 1 L

Exempted Quantity: E0

15. JAGU. Reguleerivad õigusaktid

15.1. Ainete ja segude suhtes kohaldatavad ohutus-, tervise- ja keskkonnaalased eeskirjad/õigusaktid
Direktiiv 98/24/EÜ (Keemiliste mõjuritega seotud ohud töökohas)
Direktiiv 2000/39/EÜ (Ohtlike ainete soovituslikud piirnormid töökohas)
Määrus (EÜ) 1907/2006 (REACH)
Määrus (EÜ) 1272/2008 (CLP)
Määrus (EÜ) 790/2009 (ATP 1 CLP) ja (EL) 758/2013
Määrus (EL) 2020/878
Määrus (EL) 286/2011 (ATP 2 CLP)
Määrus (EL) 618/2012 (ATP 3 CLP)
Määrus (EL) 487/2013 (ATP 4 CLP)
Määrus (EL) 944/2013 (ATP 5 CLP)
Määrus (EL) 605/2014 (ATP 6 CLP)
Määrus (EL) 2015/1221 (ATP 7 CLP)
Määrus (EL) 2016/918 (ATP 8 CLP)
Määrus (EL) 2016/1179 (ATP 9 CLP)
Määrus (EL) 2017/776 (ATP 10 CLP)
Määrus (EL) 2018/669 (ATP 11 CLP)
Määrus (EL) 2018/1480 (ATP 13 CLP)
Määrus (EL) 2019/521 (ATP 12 CLP)
Määrus (EL) 2020/217 (ATP 14 CLP)
Määrus (EL) 2020/1182 (ATP 15 CLP)
Määrus (EL) 2021/643 (ATP 16 CLP)
Määrus (EL) 2021/849 (ATP 17 CLP)
Määrus (EL) 2022/692 (ATP 18 CLP)
Toote või selles sisalduvate ainetega seotud piirangud vastavalt määruse (EÜ) 1907/2006 (REACH) XVII lisale ja järgmistele muudatustele:
Tootega seonduvad piirangud:
Piiramist 3
Piiramist 40
Sisalduvate ainetega seostuvad piirangud:
Piiramist 75

Lenduvad orgaanilised ühendid (LOÜ) = 100.00 %
Lenduvad orgaanilised ühendid (LOÜ) = 1000.00 g/Kg
Lenduvad orgaanilised ühendid (LOÜ) = 696.40 g/l
Kus iganes vajalik, viidata järgmistele normatiividele:
Direktiivid 2012/18/EL (Seveso III)
Euroopa Parlamendi ja nõukogu määrus (EÜ) nr 648/2004 (detergentide).
NÕUKOGU DIREKTIIV 2004/42/EÜ (LOÜ)

toode kuulub kategooriasse: P3b, E2

15.2. Kemikaaliohutuse hindamine
Kemikaaliohutust ei ole hinnatud segu
Ained, mille kemikaaliohutust on hinnatud:
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
C6 hydrocarbons isoalcane < 5% n- Hexane
propaan-2-ool; isopropüülalkohol; isopropanool

16. JAGU. Muu teave

Lõikes 3 kasutatud lausete tekst:
H225 Väga tuleohtlik vedelik ja aur.

H304 Allaneelamisel või hingamisteedesse sattumisel võib olla surmav.
H315 Põhjustab nahaärritust.
H336 Võib põhjustada unisust või peapööritust.
H411 Mürgine veeorganismidele, pikaajaline toime.
EUH066 Korduv kokkupuude võib põhjustada naha kuivust või lõhenemist.
H319 Põhjustab tugevat silmade ärritust.
H281 Sisaldab külmutatud gaasi; võib põhjustada külmapõletusi või -kahjustusi.

Ohuklass ja -kategooria	**Kood**	**Kirjeldus**
Aerosols 1	2.3/1	Aerosool, kategooria 1
Press Gas (Ref. Liq.)	2.5/RL	Rõhu all olev gaas (Külmutatud veeldatud gaas)
Flam. Liq. 2	2.6/2	Tuleohtlik vedelik, kategooria 2
Asp. Tox. 1	3.10/1	Hingamiskahjustus, Kategooria 1
Skin Irrit. 2	3.2/2	Nahaärritus, kategooria 2
Eye Irrit. 2	3.3/2	Silmade ärritus, kategooria 2
STOT SE 3	3.8/3	Mürgisus sihtelundi suhtes – ühekordne kokkupuude, Kategooria 3
Aquatic Chronic 2	4.1/C2	Krooniline (pikaajaline) ohtlikkus vesikeskkonnale, kategooria 2

Võrreldes endise redaktsiooniga muudetud paragrahvid:

1. JAGU. Aine/segu ning äriühingu/ettevõtja identifitseerimine
5. JAGU. Tulekustutusmeetmed
6. JAGU. Meetmed juhusliku sattumise korral keskkonda
7. JAGU. Käitlemine ja ladustamine
8. JAGU. Kokkupuute ohjamine/isikukaitse
9. JAGU. Füüsikalised ja keemilised omadused
10. JAGU. Püsivus ja reaktsioonivõime
13. JAGU. Jäätmekäitlus
15. JAGU. Reguleerivad õigusaktid

Ohuklass (ja alajaotus) ning määruse (EÜ) nr 1272/2008 (CLP) kohase segude klassifitseerimiseks kasutatud protseduur:

Ohuklass (ja alajaotus) vastavalt määrusele (EÜ) nr 1272/2008	**Klassifitseerimisviis**
Aerosols 1, H222, H229	Katseandmete aluse
Skin Irrit. 2, H315	Arvutusmeetod (ilma propellandita aerosool)
Eye Irrit. 2, H319	Arvutusmeetod (ilma propellandita aerosool)
STOT SE 3, H336	Arvutusmeetod (ilma propellandita aerosool)

Aquatic Chronic 2, H411	Arvutusmeetod (ilma propellandita aerosool)

Selle dokumendi valmistas ette kompetentne isik, kes on läbinud vastava väljaõppe.
Bibliograafilised põhiallikad:

Kemikaalide ökoloogiliste andmete ja informatsiooni võrgustik (ECDIN) - Teadusuuringute Ühiskeskus, Euroopa Ühenduste Komisjon

SAX'I TÖÖSTUSMATERJALIDE OHTLIKUD OMADUSED - kaheksas väljaanne - Van Nostrand Reinold

Sealtoodud informatsioon põhineb meie teadmistel ülaltoodud andmetest. See puudutab vaid nimetatud toodet ja ei sisalda kvaliteedi garanti.
Kasutaja kohustub veenduma selle informatsiooni sobivuses ja täielikkuses seoses plaanitud kasutusega.
Käesoleva ohutuskaardiga kõik endised redaktsioonid tunnistatakse kehtetuks.

ADR:	Rahvusvaheline ohtlike kaupade autoveo Euroopa kokkulepe
ATE:	Akuutse toksilisuse hinnang
ATEsegu:	ägeda mürgisuse hinnangud (Segud)
CAS:	Ajakirja Chemical Abstracts infoteenus (Ameerika keemiaseltsi osakond)
CLP:	Klassifitseerimine, märgistamine, pakendamine
DNEL:	Tuletatud mittetoimiv tase
EINECS:	Euroopa kaubanduslike keemiliste ainete loetelu
GefStoffVO:	Saksamaa ohtlike ainete määrus
GHS:	Kemikaalide klassifitseerimise ja märgistamise üleilmne ühtlustatud süsteem
IATA:	Rahvusvaheline Lennutranspordi Assotsiatsioon
IATA-DGR:	Rahvusvahelise Lennutranspordi Assotsiatsiooni (IATA) ohtlike kaupade veoeeskirjad
ICAO:	Rahvusvaheline Tsiviillennunduse Organisatsioon
ICAO-TI:	Rahvusvahelise Tsiviillennunduse Organisatsiooni (ICAO) tehnilised juhised
IMDG:	Rahvusvaheline ohtlike kaupade mereveo eeskiri
INCI:	Rahvusvaheline kosmeetikavahendite koostisainete nomenklatuur
KSt:	Plahvatustegur
LC50:	Surmav kontsentratsioon, 50 protsendile katsealustest
LD50:	Surmav annus, 50 protsendile katsealustest
NA:	Rakendamatu
PNEC:	Arvutuslik mittetoimiv sisaldus
RID:	Rahvusvaheline ohtlike kaupade raudteevedude kord
STEL:	Lühiajalise toime piirnorm
STOT:	Toksilisus konkreetse sihtorgani suhtes
TLV:	Lubatud piirnorm
TWA:	Aja-kaalu Keskmine
WGK:	Saksamaa veereostuse ohuklass

Exposure Scenario, 17/07/2019

Substance identity	
Chemical name	Heptane HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS
EINECS No.	927-510-4

Table of contents

1. ES 1 Use at industrial site

1.1 TITLE SECTION

Exposure Scenario name	Use in coatings
Date - Version	17/07/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses

Environment Contributing Scenario

CS1 Covered by	ERC4

Worker Contributing Scenario

CS2 Industrial	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC14 - PROC15

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)

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

Amounts used:

Annual site tonnage 400 t(onnes)/year
Daily amount per site 20000 kg/day

Maximum allowable site tonnage (MSafe): 62000 kg/day

Release type: Continuous release

Emission days: 20 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):	Air - minimum efficiency of: 90 %
No discharge of substance into waste water	Water - minimum efficiency of: 88.2 %

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 96.2 %

STP effluent (m³/day): 2000

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

1.2. CS2: Worker Contributing Scenario: Industrial (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, 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 - 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 - Tabletting, compression, extrusion, pelletisation, granulation - Use as laboratory reagent (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 20 kPa

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

Remove spills immediately
Ensure operatives are trained to minimise exposures.
Store substance within a closed system.

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

Personal protection

Wear suitable gloves tested to EN374.
Wear suitable face shield.
Use suitable eye protection.

1.3 Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Air	98 %	N/A
Water	0.07 %	N/A
soil	0 %	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 Widespread use by professional workers

2.1 TITLE SECTION

Exposure Scenario name	Use in coatings
Date - Version	17/07/2019 - 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

Worker Contributing Scenario

CS2 General use from professional operators	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC10 - PROC11 - PROC13 - PROC15 - PROC19

2.2 Conditions of use affecting exposure

2.2. 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)

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

Amounts used:

Annual site tonnage 0.15 t(onnes)/year
Daily amount per site 0.41 kg/day

Maximum allowable site tonnage (MSafe): 1500 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):
Prevent discharge of undissolved substance to or recover from onsite wastewater.

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 96.2 %

STP effluent (m^3/day): 2000

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

Waste treatment

Do not apply industrial sludge to natural soils.
Product residual disposal complies with applicable regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100
Local freshwater dilution factor: 10

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

Additional Good Practice Advice:

Do not use sludge as fertiliser.

2.2. 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)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 20 kPa

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
Ensure operatives are trained to minimise exposures.
Carry out in a vented booth or extracted enclosure.

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

Personal protection

Wear suitable gloves tested to EN374.
Wear suitable face shield.
Use suitable eye protection.

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

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

Release route	Release rate	Release estimation method
Air	98 %	N/A
soil	1 %	N/A
Water	0.1 %	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	Use in cleaning agents
Date - Version	17/07/2019 - 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

Worker Contributing Scenario

CS2 Industrial	PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC10 - PROC13

3.2 Conditions of use affecting exposure

3.2. 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)

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

Amounts used:

Annual site tonnage 74 t(onnes)/year
Daily amount per site 3700 kg/day

Maximum allowable site tonnage (MSafe): 4600000 kg/day

Release type: Continuous release

Emission days: 20 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):	Air - minimum efficiency of: 70 %
Prevent discharge of undissolved substance to or recover from onsite wastewater.	

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 96.2 %

STP effluent (m^3/day): 2000

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

Waste treatment

Do not apply industrial sludge to natural soils.
External treatment and disposal of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100
Local freshwater dilution factor: 10

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

Additional Good Practice Advice:
Do not apply industrial sludge to natural soils.

3.2. 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)

Product (article) characteristics

Physical form of product:
Liquid

Vapour pressure:
< 20 kPa

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
Remove spills immediately
Ensure operatives are trained to minimise exposures.

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

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

Release route	Release rate	Release estimation method
Air	1 %	N/A
Water	3E-06 %	N/A
soil	0 %	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	Cleaning agent
Date - Version	17/07/2019 - 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

Worker Contributing Scenario

CS2 General use from professional operators	PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC10 - PROC11 - PROC13

4.2 Conditions of use affecting exposure

4.2. 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)

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

Amounts used:

Annual site tonnage 0.012 t(onnes)/year
Daily amount per site 0.032 kg/day

Maximum allowable site tonnage (MSafe): 170 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):
Prevent discharge of undissolved substance to or recover from onsite wastewater.
Do not apply industrial sludge to natural soils.

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 96.2 %

STP effluent (m^3/day): 2000

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

Waste treatment

Do not apply industrial sludge to natural soils.
External treatment and disposal of waste should comply with applicable local and/or national regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100
Local freshwater dilution factor: 10

4.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, 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 - 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 (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

< 20 kPa

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

Remove spills immediately
Ensure operatives are trained to minimise exposures.
Handle substance within a closed system.

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.
Ventilation rate: Provide forced ventilation

4.3 Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Air	2 %	N/A
soil	0 %	N/A
Water	1E-06 %	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.

Exposure Scenario, 19/09/2019

Substance identity	
Chemical name	ISOESANO NAZ.LE
CAS No.	64742-49-0
EINECS No.	931-254-9

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1. ES 1 Use at industrial site

1.1 TITLE SECTION

Exposure Scenario name	Use in cleaning agents
Date - Version	19/09/2019 - 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
Worker Contributing Scenario	
CS2 Industrial	PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC10 - PROC13

1.2 Conditions of use affecting exposure

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

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

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

Amounts used:

Annual site tonnage 100 t(onnes)/year

Maximum allowable site tonnage (MSafe): 15800000 kg/day

Release type: Continuous release

Emission days: 20 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):	Air - minimum efficiency of: 70 %
Prevent discharge of undissolved substance to or recover from onsite wastewater.	

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

Water - minimum efficiency of: = 96.6 %

STP effluent (m^3/day): 2000

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

Waste treatment

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

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

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

Additional Good Practice Advice:

Do not apply industrial sludge to natural soils.

1.2. 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)

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

Remove spills immediately

Handle substance within a closed system.

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

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.

Other conditions affecting worker exposure

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

1.3 Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Air	1 %	N/A
Water	3 %	N/A
soil	0 %	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 Widespread use by professional workers

2.1 TITLE SECTION

Exposure Scenario name	Use in cleaning agents
Date - Version	19/09/2019 - 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

Worker Contributing Scenario

CS2 General use from professional operators	PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC10 - PROC11 - PROC13

2.2 Conditions of use affecting exposure

2.2. 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)

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

Amounts used:
Annual site tonnage 0.0006 t(onnes)/year

Maximum allowable site tonnage (MSafe): 8.46 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Conditions and measures related to sewage treatment plant

STP type:
Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 96.9 %
STP effluent (m^3/day): 2000

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

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

Other conditions affecting environmental exposure

Local marine water dilution factor: 100
Local freshwater dilution factor: 10

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

Additional Good Practice Advice:
Do not apply industrial sludge to natural soils.

2.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, 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 - 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 (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13)

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

Remove spills immediately
Ensure operatives are trained to minimise exposures.
Handle substance within a closed system.

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

Personal protection

Wear suitable gloves tested to EN374 and sleeves. For further specification, refer to section 8 of the SDS

2.3 Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Air	0.02 %	N/A
Water	1 %	N/A
soil	0 %	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 Consumer use; Various products (PC9b, PC9a, PC3, PC4, PC8)

3.1 TITLE SECTION

Exposure Scenario name	Cleaning agent
Date - Version	19/09/2019 - 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

Consumer Contributing Scenario

CS2 Consumer	PC9b - PC9a - PC3 - PC4 - PC8 - PC24 - PC35 - PC38
CS3 Consumer	PC3
CS4 Consumer	PC3
CS5 Consumer	PC3
CS6 Consumer	PC3
CS7 Consumer	PC4
CS8 Consumer	PC4
CS9 Consumer	PC4
CS10 Consumer	PC8
CS11 Consumer	PC8
CS12 Consumer	PC8
CS13 Consumer	PC9a
CS14 Consumer	PC24
CS15 Consumer	PC24
CS16 Consumer	PC35
CS17 Consumer	PC35
CS18 Consumer	PC35
CS19 Consumer	PC38

3.2 Conditions of use affecting exposure

3.2. 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)

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

Amounts used:
Annual site tonnage 0.034 t(onnes)/year

Maximum allowable site tonnage (MSafe): 392 kg/day

Release type: Continuous release

Emission days: 365 days per year

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

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

Other conditions affecting environmental exposure

Local marine water dilution factor: 100
Local freshwater dilution factor: 10

3.2. CS2: Consumer Contributing Scenario: Consumer (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 (article) characteristics

Physical form of product:
Liquid

Vapour pressure:
> 100 hPa

Concentration of substance in product:
Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 13.8 g

Duration:
Covers exposure up to 640 min/day

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

3.2. CS3: Consumer Contributing Scenario: Consumer (PC3)

Product Categories	Air care products (PC3)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 30 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 0.1 g

Duration:
Covers exposure up to 15 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS4: Consumer Contributing Scenario: Consumer (PC3)

Product Categories	Air care products (PC3)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 5 g

Duration:
Covers exposure up to 15 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS5: Consumer Contributing Scenario: Consumer (PC3)

Product Categories	Air care products (PC3)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 0.48 g

Duration:
Covers exposure up to 640 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS6: Consumer Contributing Scenario: Consumer (PC3)

Product Categories	Air care products (PC3)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 0.48 g

Duration:
Covers exposure up to 640 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS7: Consumer Contributing Scenario: Consumer (PC4)

Product Categories	Anti-freeze and de-icing products (PC4)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 1 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 0.5 g

Duration:
Covers exposure up to 1.2 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 34 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS8: Consumer Contributing Scenario: Consumer (PC4)

Product Categories	Anti-freeze and de-icing products (PC4)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 2 g

Duration:
Covers exposure up to 10.2 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 34 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS9: Consumer Contributing Scenario: Consumer (PC4)

Product Categories	Anti-freeze and de-icing products (PC4)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 4 g

Duration:
Covers exposure up to 15 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 34 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS10: Consumer Contributing Scenario: Consumer (PC8)

Product Categories	Biocidal products (PC8)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 15 g

Duration:
Covers exposure up to 30 min/day
Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS11: Consumer Contributing Scenario: Consumer (PC8)

Product Categories	Biocidal products (PC8)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 27 g

Duration:
Covers exposure up to 19.8 min/day
Frequency:
Covers exposure up to 128 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS12: Consumer Contributing Scenario: Consumer (PC8)

Product Categories	Biocidal products (PC8)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 15 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 35 g

Duration:
Covers exposure up to 10.2 min/day
Frequency:
Covers exposure up to 128 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS13: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories	Coatings and paints, thinners, paint removers (PC9a)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 491 g

Duration:
Covers exposure up to 120 min/day
Frequency:
Covers exposure up to 3 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS14: Consumer Contributing Scenario: Consumer (PC24)

Product Categories	Lubricants, greases, release products (PC24)

Product (article) characteristics

Concentration of substance in product:
Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 2.2 g

Frequency:
Covers exposure up to 4 days per year

3.2. CS15: Consumer Contributing Scenario: Consumer (PC24)

Product Categories	Lubricants, greases, release products (PC24)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 50 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 73 g

Duration:
Covers exposure up to 10.2 min/day
Frequency:
Covers exposure up to 6 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS16: Consumer Contributing Scenario: Consumer (PC35)

Product Categories	Washing and cleaning products (PC35)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 15 g

Duration:
Covers exposure up to 30 min/day

Frequency:
Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS17: Consumer Contributing Scenario: Consumer (PC35)

Product Categories	Washing and cleaning products (PC35)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 5 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 27 g

Duration:
Covers exposure up to 19.8 min/day

Frequency:
Covers exposure up to 128 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS18: Consumer Contributing Scenario: Consumer (PC35)

Product Categories	Washing and cleaning products (PC35)

Product (article) characteristics

Concentration of substance in product:
Covers concentrations up to 15 %

Amount used, frequency and duration of use/exposure

Amounts used:
Amount per use 35 g

Duration:
Covers exposure up to 10.2 min/day

Frequency:
Covers exposure up to 128 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³
Ventilation rate: Covers use under typical household ventilation.

3.2. CS19: Consumer Contributing Scenario: Consumer (PC38)

Product Categories	Welding and soldering products, flux products (PC38)

Product (article) characteristics

Concentration of substance in product:

Covers concentrations up to 20 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 12 g

Duration:

Covers exposure up to 60 min/day

Frequency:

Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

Room size: Covers use in room size of 20 m³

Ventilation rate: Covers use under typical household ventilation.

3.3 Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Air	0.95 %	N/A
Water	0.025 %	N/A
soil	0.025 %	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	19/09/2019 - 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

Worker Contributing Scenario

CS2 Industrial	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC17

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)

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 site tonnage 20 t(onnes)/year

Maximum allowable site tonnage (MSafe): 74100 kg/day

Release type: Continuous release

Emission days: 20 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Treat air emission to provide the required removal efficiency of (%):	Air - minimum efficiency of: 70 %
Prevent discharge of undissolved substance to or recover from onsite wastewater. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.	

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

Water - minimum efficiency of: = 96 %

STP effluent (m³/day): 2000

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

Waste treatment

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

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

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)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

> 100 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 daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Remove spills immediately
Use in contained systems
Avoid direct eye contact with product, also via contamination on hands.

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

Personal protection

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.

Other conditions affecting worker exposure

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

4.3 Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Air	0.02 %	N/A
Water	3 %	N/A
soil	0 %	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	Metal working fluids / rolling oils
Date - Version	19/09/2019 - 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

Worker Contributing Scenario

CS2 General use from professional operators	PROC5 - PROC1 - PROC2 - PROC3 - PROC8a - PROC8b - PROC9 - PROC10 - PROC11 - PROC13 - PROC17

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)

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 site tonnage 0.00015 t(onnes)/year

Maximum allowable site tonnage (MSafe): 2.11 kg/day

Release type: Continuous release

Emission days: 365 days per year

Technical and organisational conditions and measures

Control measures to prevent releases

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 96.9 %

STP effluent (m^3/day): 2000

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

Waste treatment

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

Other conditions affecting environmental exposure

Local marine water dilution factor: 100
Local freshwater dilution factor: 10

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

Additional Good Practice Advice:

Sludge is disposed or recovered.

5.2. 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)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

> 100 hPa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures

Technical and organisational measures

Remove spills immediately
Use in contained systems
Avoid direct eye contact with product, also via contamination on hands.

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

Personal protection

Wear suitable gloves tested to EN374 and sleeves. For further specification, refer to section 8 of the SDS

Other conditions affecting worker exposure

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

5.3 Exposure estimation and reference to its source

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

Release route	Release rate	Release estimation method
Air	0.6 %	N/A
Water	0.05 %	N/A
soil	0.05 %	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.