

Ficha de datos de seguridad

COCKPIT CLEANER High Gloss Scented Ocean



Ficha de datos de seguridad del 27/9/2024, Revisión 5

SECCIÓN 1. Identificación de la sustancia o la mezcla y de la sociedad o la empresa

1.1. Identificador de producto

Identificación del preparado:

Nombre comercial: COCKPIT CLEANER High Gloss Scented Ocean

Código comercial: 31010

1.2. Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

Uso recomendado:

detergente para salpicaderos

Usos no recomendados:

Respetar estrictamente los usos recomendados.

1.3. Datos del proveedor de la ficha de datos de seguridad

Proveedor:

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

Persona competente responsable de la ficha de datos de seguridad:

arexons@arexons.it

1.4. Teléfono de emergencia

Arexons S.p.A.

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

Teléfono de emergencias: + 34 91 562 04 20 (Solo emergencias toxicológicas. Información en español (24h/365 días))

SECCIÓN 2. Identificación de los peligros

2.1. Clasificación de la sustancia o de la mezcla

Criterios Reglamentación CE 1272/2008 (Clasificación, Etiquetado y Empacado):

⚠ Peligro, Aerosols 1, Aerosol extremadamente inflamable. Recipiente a presión: Puede reventar si se calienta.

⚠ Atención, Eye Irrit. 2, Provoca irritación ocular grave.

⚠ Atención, Skin Irrit. 2, Provoca irritación cutánea.

⚠ Atención, STOT SE 3, Puede provocar somnolencia o vértigo.

Aquatic Chronic 3, Nocivo para los organismos acuáticos, con efectos nocivos duraderos.

Efectos físico-químicos nocivos para la salud humana y para el medio ambiente:

Ningún otro riesgo

2.2. Elementos de la etiqueta

Pictogramas de peligro:



Peligro

Indicaciones de peligro:

H222, H229 Aerosol extremadamente inflamable. Recipiente a presión: Puede reventar si se calienta.

H319 Provoca irritación ocular grave.

H315 Provoca irritación cutánea.

H336 Puede provocar somnolencia o vértigo.

H412 Nocivo para los organismos acuáticos, con efectos nocivos duraderos.

Consejos de prudencia:

31010/5

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P101 Si se necesita consejo médico, tener a mano el envase o la etiqueta.
P102 Mantener fuera del alcance de los niños.
P103 Leer atentamente y seguir todas las instrucciones.
P210 Mantener alejado del calor, de superficies calientes, de chispas, de llamas abiertas y de cualquier otra fuente de ignición. No fumar.
P211 No pulverizar sobre una llama abierta u otra fuente de ignición.
P251 No perforar ni quemar, incluso después de su uso.
P271 Utilizar únicamente en exteriores o en un lugar bien ventilado.
P405 Guardar bajo llave.
P410+P412 Proteger de la luz del sol. No exponer a temperaturas superiores a 50 °C/122°F.
P501 Eliminar el contenido/el recipiente en conformidad con la reglamentación.

Disposiciones especiales:

Ninguna

Contiene

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Propan-2-ol; alcohol isopropílico; isopropanol

Disposiciones especiales de acuerdo con el anexo XVII del Reglamento REACH y sus posteriores modificaciones:

Ninguna

Reglamento (CE) no 648/2004 (detergentes).

Contenido del producto:

Hidrocarburos alifáticos

> 30 %

Contiene también:

Perfumes

Alérgenos:

dipenteno

2.3. Otros peligros

Ninguna sustancia PBT, mPmB o perturbador endocrino presente en concentración $\geq 0.1\%$

Otros riesgos:

Ningún otro riesgo

SECCIÓN 3. Composición/información sobre los componentes

3.1. Sustancias

N.A.

3.2. Mezclas

Componentes peligrosos según el Reglamento CLP y su correspondiente clasificación:

Cantidad	Nombre	Número de identif.	Clasificación
$\geq 70\%$ - < 80%	Hidrocarburos, C3-4; gas de petróleo	Número 649-199-00-1 Index: CAS: 68476-40-4 EC: 270-681-9 REACH No.: 01- 2119486557 -22	⚠ 2.2/1A Flam. Gas 1A H220 ⚠ 2.5/L Press Gas (Liq.) H280 DECLK (CLP)*
$\geq 20\%$ - < 25%	Hydrocarbons, C7, n- alkanes, isoalkanes, cyclics	EC: 927-510-4 REACH No.: 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
$\geq 2\%$ - < 3%	Propan-2-ol; alcohol isopropílico;	Número 603-117-00-0 Index:	⚠ 2.6/2 Flam. Liq. 2 H225

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	isopropanol	CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457558-25	3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336
332 ppb	DYPHENYL OXYDE	CAS: 101-84-8 EC: 202-981-2 REACH No.: 01-2119472545-33	3.3/2 Eye Irrit. 2 H319 4.1/A1 Aquatic Acute 1 H400 4.1/C3 Aquatic Chronic 3 H412
<1 ppb	tolueno	CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-2119471310-51	2.6/2 Flam. Liq. 2 H225 3.8/3 STOT SE 3 H336 3.10/1 Asp. Tox. 1 H304 3.2/2 Skin Irrit. 2 H315 3.7/2 Repr. 2 H361 3.9/2 STOT RE 2 H373
<1 ppb	p-cresol	Número Index: 604-004-00-9 CAS: 106-44-5 EC: 203-398-6 REACH No.: 01-2119448336-36	3.1/3/Dermal Acute Tox. 3 H311 4.1/C3 Aquatic Chronic 3 H412 3.1/3/Oral Acute Tox. 3 H301 3.2/1B Skin Corr. 1B H314

*DECLK (CLP): Sustancia clasificada de acuerdo con la nota K del anexo VI del Reglamento CE 1272/2008. Se aplica la clasificación armonizada como carcinógeno o mutágeno, salvo que pueda demostrarse que la sustancia contiene menos del 0,1 % en peso de 1,3-butadieno (n.o EINECS 203-450-8), en cuyo caso deberá aplicarse también una clasificación de conformidad con el título II del presente Reglamento en relación con esas clases de peligro. Si la sustancia no está clasificada como carcinógeno o mutágeno, deberán aplicarse como mínimo los consejos de prudencia (P102-) P210-P403.

SECCIÓN 4. Primeros auxilios

4.1. Descripción de los primeros auxilios

En caso de contacto con la piel:

Quítese inmediatamente la ropa contaminada.

Lavar inmediatamente con abundante agua corriente y eventualmente jabón las zonas del cuerpo que han entrado en contacto con el producto, incluso si fuera sólo una sospecha.

Lavar completamente el cuerpo (ducha o baño).

Quitarse de inmediato la indumentaria contaminada y eliminarla de manera segura.

En caso de contacto con la piel, lavar de inmediato con abundante agua y jabón.

En caso de contacto con los ojos:

En caso de contacto con los ojos, enjuagarlos con agua durante un tiempo adecuado y manteniendo los párpados abiertos, luego consultar de inmediato con un oftalmólogo.

Proteger el ojo ileso.

En caso de ingestión:

No provocar el vómito en ningún caso. CONSULTAR INMEDIATAMENTE AL MÉDICO.

En caso de inhalación:

Llevar al accidentado al aire libre y mantenerlo en reposo y abrigado.

4.2. Principales síntomas y efectos, agudos y retardados

Ninguno

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4.3. Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente

En caso de accidente o malestar, consultar de inmediato con un médico (si es posible mostrarle las instrucciones de uso o la ficha de seguridad)

Tratamiento:

Ninguno

SECCIÓN 5. Medidas de lucha contra incendios

5.1. Medios de extinción

Medios de extinción apropiados:

Con anhídrido carbónico.

Con polvo.

Espuma

Agua vaporizada.

Medios de extinción no recomendados:

5.2. Peligros específicos derivados de la sustancia o la mezcla

No inhalar los gases producidos por la explosión y por la combustión.

La combustión produce humo pesado.

5.3. Recomendaciones para el personal de lucha contra incendios

Ropa normal para la lucha contra incendios, como un aparato respiratorio de aire comprimido de circuito abierto (EN 137), traje ignífugo (EN469), guantes ignífugos (EN 659) y botas de bombero (HO A29 o A30).

SECCIÓN 6. Medidas en caso de vertido accidental

6.1. Precauciones personales, equipo de protección y procedimientos de emergencia

Usar los dispositivos de protección individual.

Quitar toda fuente de encendido.

Llevar las personas a un lugar seguro.

Consultar las medidas de protección expuestas en los puntos 7 y 8.

6.2. Precauciones relativas al medio ambiente

Evitar que el producto penetre en el suelo/subsuelo. Evitar que penetre en aguas superficiales o en el alcantarillado.

Conservar el agua de lavado contaminada y eliminarla.

En caso de fuga de gas o penetración en cursos de agua, suelo o sistema de alcantarillado, informar a las autoridades responsables.

Material apropiado para la recogida: material absorbente, orgánico, arena

6.3. Métodos y material de contención y de limpieza

Limpieza:

Evitar la presencia de llamas y/o chispas cerca de la pérdida y productos de desecho. No fumar.

Contener

en caso de vertido de cantidades relevantes del producto y absorber cuando disperse. Contener el

derrame de pequeñas cantidades de producto con tierra, arena, sepiolita, trapos u otro absorbente inerte.

Recuperar con paletas después de la absorción de disolvente y transferir en contenedores adecuados.

Desechar los residuos según la normativa vigente.

6.4. Referencia a otras secciones

Véanse también los apartados 8 y 13.

SECCIÓN 7. Manipulación y almacenamiento

7.1. Precauciones para una manipulación segura

Evitar el contacto con la piel y los ojos, la inhalación de vapores y vahos.

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No utilizar contenedores vacíos que no hayan sido previamente limpiados.
Antes de realizar las operaciones de transferencia, asegurarse de que en los contenedores no haya materiales residuos incompatibles.
Remitirse también al apartado 8 para los dispositivos de protección recomendados.

La indumentaria contaminada debe ser sustituida antes de acceder a las áreas de almuerzo.
No comer ni beber durante el trabajo.

- 7.2. Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades
Conservar solo en el recipiente original.
Debe almacenarse a temperaturas inferiores a 50 °C. Manténgase alejado de llamas libres y fuentes de calor. Evite la exposición directa al sol.
Manténgase alejado de llamas libres, chispas y fuentes de calor. Evite la exposición directa al sol.
Mantener alejado de comidas, bebidas y pienso.
Ninguna en particular.
Indicaciones para los locales:
Frescos y adecuadamente aireados.
- 7.3. Usos específicos finales
Ningún uso particular

SECCIÓN 8. Controles de exposición/protección individual

- 8.1. Parámetros de control
Hidrocarburos, C3-4; gas de petróleo - CAS: 68476-40-4
MAK - TWA: 2400 mg/m³, 1000 ppm
TLV TWA - 1900 mg/m³, 800 ppm
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
UE
Propan-2-ol; alcohol isopropílico; isopropanol - 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 - Notas: A4, BEI - Eye and URT irr, CNS impair
DYPHENYL OXYDE - CAS: 101-84-8
UE - TWA(8h): 7 mg/m³, 1 ppm - STEL: 14 mg/m³, 2 ppm
ACGIH - TWA(8h): 1 ppm - STEL: 2 ppm - Notas: (V) - URT and eye irr, nausea
tolueno - CAS: 108-88-3
UE - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notas: Skin
ACGIH - TWA(8h): 20 ppm - Notas: OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss
p-cresol - CAS: 106-44-5
UE - TWA(8h): 22 mg/m³, 5 ppm
ACGIH - TWA(8h): 20 mg/m³ - Notas: (IFV), Skin, A4 - URT irr
Valores límites de exposición DNEL
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Trabajador profesional: 300 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos
Trabajador profesional: 508 ppm - Exposición: Por inhalación humana - Frecuencia: A corto plazo, efectos sistémicos
Consumidor: 149 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos
Consumidor: 109 ppm - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos
Consumidor: 149 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo, efectos sistémicos
Propan-2-ol; alcohol isopropílico; isopropanol - CAS: 67-63-0
Trabajador profesional: 888 mg/kg - Consumidor: 319 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo (repetida)

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Trabajador profesional: 500 mg/m³ - Consumidor: 89 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo (repetida)
Consumidor: 26 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo (repetida)
DYPHENYL OXYDE - CAS: 101-84-8
Trabajador industrial: 59 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos sistémicos
Trabajador industrial: 58.3 mg/kg - Exposición: Dérmica humana - Frecuencia: A largo plazo, efectos sistémicos
Trabajador industrial: 9.68 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A largo plazo, efectos locales
Trabajador industrial: 14 mg/m³ - Exposición: Por inhalación humana - Frecuencia: A corto plazo, efectos locales
Valores límites de exposición PNEC
Propan-2-ol; alcohol isopropílico; isopropanol - CAS: 67-63-0
Objetivo: agua dulce - Valor: 140.9 mg/l
Objetivo: agua dulce - Valor: 140.9 mg/l
Objetivo: Sedimentos de agua dulce - Valor: 552 mg/l
Objetivo: Suelo (agricultura) - Valor: 28 mg/kg
Objetivo: Microorganismos en aguas residuales - Valor: 2251 mg/l
DYPHENYL OXYDE - CAS: 101-84-8
Objetivo: agua dulce - Valor: 0.0017 mg/l
Objetivo: Agua marina - Valor: 0.00017 mg/l
Objetivo: Sedimentos de agua dulce - Valor: 0.345 mg/kg
Objetivo: Sedimentos de agua marina - Valor: 0.0345 mg/kg
Objetivo: Suelo (agricultura) - Valor: 0.0681 mg/kg
8.2. Controles de la exposición
Protección de los ojos:
Gafas de seguridad
Cumple con la norma EN 166
Protección de la piel:
ropa protectora
Protección de las manos:
Guantes de nitrilo o de Viton.
Conformes EN 374.
Grosor: Puño 0,10 mm; palma 0,12 mm; dedos 0,145 mm
Protección respiratoria:
Use un dispositivo de protección respiratoria adecuado.
Riesgos térmicos:
Ninguno
Controles de la exposición ambiental:
Ninguno
Controles técnicos apropiados:
Ninguno

SECCIÓN 9. Propiedades físicas y químicas

9.1. Información sobre propiedades físicas y químicas básicas

Propiedad	Valor	Método:	Notas
Estado físico:	Líquido	--	--
Color:	incoloro	--	--
Olor:	N.A.	--	--
Punto de fusión/punto de congelación:	N.A.	--	--

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Punto de ebullición o punto inicial de ebullición e intervalo de ebullición:	N.A.	--	--
Inflamabilidad:	inflamable	--	--
Límite superior e inferior de explosividad:	N.A.	--	--
Punto de ignición (flash point, fp):	<0°C	Heptano	--
Temperatura de autoencendido:	N.A.	--	--
Temperatura de descomposición:	N.A.	--	--
pH:	No Relevante	--	--
Viscosidad cinemática:	N.A.	--	--
Hidrosolubilidad:	N.A.	--	--
Solubilidad en aceite:	N.A.	--	--
Coefficiente de reparto n-octanol/agua (valor logarítmico):	N.A.	--	--
Presión de vapor:	N.A.	--	--
Densidad y/o densidad relativa:	0.7517	09	--
Densidad de vapor relativa:	N.A.	--	--
Características de las partículas:			
Tamaño de las partículas:	N.A.	--	--

9.2. Otros datos

Ninguna otra información relevante

SECCIÓN 10. Estabilidad y reactividad

10.1. Reactividad

Estable en condiciones normales

10.2. Estabilidad química

Estable a las temperaturas ambiente normales y si se usa como está recomendado.

10.3. Posibilidad de reacciones peligrosas

Ninguno

10.4. Condiciones que deben evitarse

Calor excesivo.

10.5. Materiales incompatibles

Evitar el contacto con materiales oxidantes. El producto podría inflamarse.

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10.6. Productos de descomposición peligrosos
Ninguno.

SECCIÓN 11. Información toxicológica

11.1. Información sobre las clases de peligro definidas en el Reglamento (CE) n.º 1272/2008
Información toxicológica del producto:

COCKPIT CLEANER High Gloss Scented Ocean SPRAY ML 600

- a) toxicidad aguda
No clasificado
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- b) corrosión o irritación cutáneas
El producto está clasificado: Skin Irrit. 2 H315
- c) lesiones o irritación ocular graves
El producto está clasificado: Eye Irrit. 2 H319
- d) sensibilización respiratoria o cutánea
No clasificado
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- e) mutagenicidad en células germinales
No clasificado
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- f) carcinogenicidad
No clasificado
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- g) toxicidad para la reproducción
No clasificado
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- h) toxicidad específica en determinados órganos (STOT) – exposición única
El producto está clasificado: STOT SE 3 H336
- i) toxicidad específica en determinados órganos (STOT) – exposición repetida
No clasificado
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- j) peligro de aspiración
No clasificado
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

La información toxicológica de las sustancias principales halladas en el producto:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

- a) toxicidad aguda:
Ensayo: LC50 - Vía: Inhalación - Especies: Rata > 23.3 mg/l - Duración: 4h
Ensayo: LD50 - Vía: Oral - Especies: Rata > 8 ml/kg
Ensayo: LD50 - Vía: Piel - Especies: Conejo 2800-3100 mg/kg
- Propan-2-ol; alcohol isopropílico; isopropanol - CAS: 67-63-0
- a) toxicidad aguda:
Ensayo: LD50 - Vía: Oral - Especies: Rata > 5000 mg/kg
Ensayo: LD50 - Vía: Piel - Especies: Conejo > 5000 mg/kg
Ensayo: LC50 - Vía: Inhalación - Especies: Rata > 10000 ppm - Duración: 6h

DYPHENYL OXYDE - CAS: 101-84-8

- a) toxicidad aguda:
Ensayo: LD50 - Vía: Oral - Especies: Rata 2830 mg/kg
Ensayo: LD50 - Vía: Piel - Especies: Conejo > 7940 mg/kg

tolueno - CAS: 108-88-3

- a) toxicidad aguda:
Ensayo: LD50 - Vía: Oral - Especies: Rata > 5000
Ensayo: LD50 - Vía: Piel - Especies: Conejo > 5000
Ensayo: LD50 - Vía: Inhalación - Especies: Rata > 20 - Duración: 4h
- p-cresol - CAS: 106-44-5

- a) toxicidad aguda:
Ensayo: LD50 - Vía: Oral - Especies: Rata 207 mg/kg

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Ensayo: LC50 - Vía: Inhalación - Especies: Rata > 710 mg/m³ - Duración: 1h
Ensayo: LD50 - Vía: Piel - Especies: Conejo 301 mg/kg

- 11.2. Información relativa a otros peligros
Propiedades de alteración endocrina:
Ningún perturbador endocrino presente en concentración $\geq 0.1\%$

SECCIÓN 12. Información ecológica

- 12.1. Toxicidad
Utilícese con técnicas de trabajo adecuadas, evitando la dispersión del producto en el medio ambiente.
Hidrocarburos, C3-4; gas de petróleo - CAS: 68476-40-4
a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Daphnia = 14.22 mg/l - Duración h.: 48
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
b) Toxicidad acuática crónica:
Parámetro: EC50 - Especies: Algas > 10-30 mg/l - Duración h.: 72
Parámetro: LC50 - Especies: Peces > 13.4 mg/l - Duración h.: 96
Propan-2-ol; alcohol isopropílico; isopropanol - CAS: 67-63-0
a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 4200 mg/l - Duración h.: 96
Parámetro: LC50 - Especies: Peces > 100 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Daphnia > 100 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas > 100 mg/l - Duración h.: 72
DYPHENYL OXYDE - CAS: 101-84-8
a) Toxicidad acuática aguda:
Parámetro: LC50 - Especies: Peces 4.2 mg/l - Duración h.: 96
Parámetro: EC50 - Especies: Daphnia 1.7 mg/l - Duración h.: 48
Parámetro: EC50 - Especies: Algas 0.455 mg/l - Duración h.: 72
Parámetro: NOEC - Especies: Algas 0.24 mg/l - Duración h.: 72
p-cresol - CAS: 106-44-5
b) Toxicidad acuática crónica:
Parámetro: LC50 - Especies: Peces > 16 mg/l - Duración h.: 24
Parámetro: LC50 - Especies: Daphnia 1.4 mg/l - Duración h.: 48
12.2. Persistencia y degradabilidad
Ninguno
Propan-2-ol; alcohol isopropílico; isopropanol - CAS: 67-63-0
Biodegradabilidad: Rápidamente degradable - Duración h.: .10gg - %: 70
12.3. Potencial de bioacumulación
tolueno - CAS: 108-88-3
Bioacumulación: Bioacumulable - Ensayo: BCF- factor de bioacumulación 90
12.4. Movilidad en el suelo
N.A.
12.5. Resultados de la valoración PBT y mPmB
Sustancias vPvB: Ninguna - Sustancias PBT: Ninguna
12.6. Propiedades de alteración endocrina
Ningún perturbador endocrino presente en concentración $\geq 0.1\%$
12.7. Otros efectos adversos
Ninguno

SECCIÓN 13. Consideraciones relativas a la eliminación

- 13.1. Métodos para el tratamiento de residuos
Recuperar si es posible. Enviar a centros de eliminación autorizados o a incineración en condiciones controladas. Operar conforme con las disposiciones locales y nacionales vigentes.
Información adicional sobre eliminación:
"Utilice el producto según las buenas prácticas de trabajo, evitando la dispersión en el medio ambiente."

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No descargue en alcantarillados, canales o cursos de agua. Respete la legislación vigente en materia de protección del agua y el suelo contra la contaminación (Decreto Legislativo n.º 152 del 3/4/2006).

Elimine el producto y los envases usados entregándolos a empresas autorizadas, de acuerdo con lo establecido en el Decreto

Legislativo n.º 152/2006 (Texto Refundido de la Ley de Medio Ambiente, que sustituyó al Decreto Ronchi) en su versión modificada.

El producto usado debe considerarse residuo especial que debe clasificarse de acuerdo con la Directiva n.º 2008/98/CE sobre residuos y asuntos relacionados. Recupere el producto si es posible. Envíe a plantas de eliminación autorizadas o incineración en condiciones controladas (152/2006 Art. 184).

Trabajar según las disposiciones locales y nacionales vigentes.

Los embalajes contaminados se deben vaciar, siempre que sea posible. Después de la limpieza, reciclar o eliminar en un centro autorizado."

SECCIÓN 14. Información relativa al transporte



14.1. Número ONU o número ID

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

14.2. Designación oficial de transporte de las Naciones Unidas

ADR-Shipping Name: AEROSOLES, inflamables
IATA-Shipping Name: AEROSOLES, inflamables
IMDG-Shipping Name: AEROSOLES, inflamables

14.3. Clase(s) de peligro para el transporte

ADR-Class: 2
ADR - Número de identificación del peligro: -
IATA-Class: 2
IATA-Label: 2.1
IMDG-Class: 2

14.4. Grupo de embalaje

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

14.5. Peligros para el medio ambiente

ADR-Contaminante ambiental: No
IMDG-Marine pollutant: No
IMDG-EmS: F-D,
S-U

14.6. Precauciones particulares para los usuarios

ADR-Subsidiary hazards: See SP63
ADR-S.P.: 190 327 344 625
ADR-Categoría de transporte (Código de restricción en túneles): 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

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IMDG-Segregation: SG69

14.7. Transporte marítimo a granel con arreglo a los instrumentos de la OMI

N.A.

Limited Quantity: 1 L

Exempted Quantity: E0

SECCIÓN 15. Información reglamentaria

15.1. Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla

Dir. 98/24/CE (Riesgos relacionados con los agentes químicos durante el trabajo)

Dir. 2000/39/CE (Valores límite de exposición profesional)

Reglamento (CE) n. 1907/2006 (REACH)

Reglamento (CE) n. 1272/2008 (CLP)

Reglamento (CE) n. 790/2009 (ATP 1 CLP) y (UE) n. 758/2013

Reglamento (UE) n. 2020/878

Reglamento (UE) n. 286/2011 (ATP 2 CLP)

Reglamento (UE) n. 618/2012 (ATP 3 CLP)

Reglamento (UE) n. 487/2013 (ATP 4 CLP)

Reglamento (UE) n. 944/2013 (ATP 5 CLP)

Reglamento (UE) n. 605/2014 (ATP 6 CLP)

Reglamento (UE) n. 2015/1221 (ATP 7 CLP)

Reglamento (UE) n. 2016/918 (ATP 8 CLP)

Reglamento (UE) n. 2016/1179 (ATP 9 CLP)

Reglamento (UE) n. 2017/776 (ATP 10 CLP)

Reglamento (UE) n. 2018/669 (ATP 11 CLP)

Reglamento (UE) n. 2018/1480 (ATP 13 CLP)

Reglamento (UE) n. 2019/521 (ATP 12 CLP)

Reglamento (UE) n. 2020/217 (ATP 14 CLP)

Reglamento (UE) n. 2020/1182 (ATP 15 CLP)

Reglamento (UE) n. 2021/643 (ATP 16 CLP)

Reglamento (UE) n. 2021/849 (ATP 17 CLP)

Reglamento (UE) n. 2022/692 (ATP 18 CLP)

Restricciones relacionadas con el producto o las sustancias contenidas, de acuerdo con el anexo XVII del Reglamento (CE) 1907/2006 (REACH) y las modificaciones posteriores:

Restricciones relacionadas con el producto:

Restricción 3

Restricción 40

Restricciones relacionadas con las sustancias contenidas:

Restricción 48

Restricción 75

Compuestos orgánicos volátiles - COV = 94.04 %

Compuestos orgánicos volátiles - COV = 940.41 g/Kg

Compuestos orgánicos volátiles - COV = 571.77 g/l

Cuando sean aplicables, hágase referencia a las siguientes normativas:

Directiva 2012/18/EU (Seveso III)

Reglamento (CE) no 648/2004 (detergentes).

Dir. 2004/42/CE (directiva COV)

Disposiciones sobre la directiva EU 2012/18 (Seveso III):

Categoría Seveso III de acuerdo con el anexo 1, parte 1
el producto pertenece a la categoría: P3a

15.2. Evaluación de la seguridad química

No se ha realizado ninguna evaluación de la seguridad química para la mezcla

Sustancias para las cuales se ha realizado una evaluación de la seguridad química

Hidrocarburos, C3-4; gas de petróleo

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Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Propan-2-ol; alcohol isopropílico; isopropanol

SECCIÓN 16. Otra información

Texto de las frases utilizadas en el párrafo 3:

H220 Gas extremadamente inflamable.

H280 Contiene gas a presión; peligro de explosión en caso de calentamiento.

H225 Líquido y vapores muy inflamables.

H304 Puede ser mortal en caso de ingestión y penetración en las vías respiratorias.

H315 Provoca irritación cutánea.

H336 Puede provocar somnolencia o vértigo.

H411 Tóxico para los organismos acuáticos, con efectos nocivos duraderos.

EUH066 La exposición repetida puede provocar sequedad o formación de grietas en la piel.

H319 Provoca irritación ocular grave.

H400 Muy tóxico para los organismos acuáticos.

H412 Nocivo para los organismos acuáticos, con efectos nocivos duraderos.

H361 Se sospecha que puede perjudicar la fertilidad o dañar el feto.

H373 Puede provocar daños en los órganos tras exposiciones prolongadas o repetidas.

H311 Tóxico en contacto con la piel.

H301 Tóxico en caso de ingestión.

H314 Provoca quemaduras graves en la piel y lesiones oculares graves.

Clase y categoría de peligro	Código	Descripción
Flam. Gas 1A	2.2/1A	Gases inflamables, Categoría 1A
Aerosols 1	2.3/1	Aerosoles, Categoría 1
Press Gas (Liq.)	2.5/L	Gases a presión (Gas licuado)
Flam. Liq. 2	2.6/2	Líquidos inflamables, Categoría 2
Acute Tox. 3	3.1/3/Dermal	Toxicidad aguda (cutánea), Categoría 3
Acute Tox. 3	3.1/3/Oral	Toxicidad aguda (oral), Categoría 3
Asp. Tox. 1	3.10/1	Peligro por aspiración, Categoría 1
Skin Corr. 1B	3.2/1B	Corrosión cutánea, Categoría 1B
Skin Irrit. 2	3.2/2	Irritación cutánea, Categoría 2
Eye Irrit. 2	3.3/2	Irritación ocular, Categoría 2
Repr. 2	3.7/2	Toxicidad para la reproducción, Categoría 2
STOT SE 3	3.8/3	Toxicidad específica en determinados órganos (exposiciones única), Categoría 3
STOT RE 2	3.9/2	Toxicidad específica en determinados órganos (exposiciones repetidas), Categoría 2
Aquatic Acute 1	4.1/A1	Peligro agudo para el medio ambiente acuático, Categoría 1
Aquatic Chronic 2	4.1/C2	Peligro crónico (a largo plazo) para el medio ambiente acuático, Categoría 2

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Aquatic Chronic 3	4.1/C3	Peligro crónico (a largo plazo) para el medio ambiente acuático, Categoría 3
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Parágrafos modificados respecto la revisión anterior

SECCIÓN 1. Identificación de la sustancia o la mezcla y de la sociedad o la empresa
 SECCIÓN 5. Medidas de lucha contra incendios
 SECCIÓN 6. Medidas en caso de vertido accidental
 SECCIÓN 7. Manipulación y almacenamiento
 SECCIÓN 8. Controles de exposición/protección individual
 SECCIÓN 9. Propiedades físicas y químicas
 SECCIÓN 10. Estabilidad y reactividad
 SECCIÓN 13. Consideraciones relativas a la eliminación
 SECCIÓN 15. Información reglamentaria

Clasificación y procedimiento utilizado para determinar la clasificación de las mezclas con arreglo al Reglamento (CE) nº 1272/2008 [CLP]:

Clasificación con arreglo al Reglamento (CE) nº 1272/2008	Procedimiento de clasificación
Aerosols 1, H222, H229	Conforme a datos obtenidos de los ensayos
Eye Irrit. 2, H319	Método de cálculo
Skin Irrit. 2, H315	Método de cálculo
STOT SE 3, H336	Método de cálculo
Aquatic Chronic 3, H412	Método de cálculo

Este documento ha sido preparado por una persona competente que ha recibido un entrenamiento adecuado

Principales fuentes bibliográficas:

ECDIN: Environmental Chemicals Data and Information Network, Centro Común de Investigación, Comisión de las Comunidades Europeas
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 8ª ed., Van Nostrand Reinold

La información aquí detallada se basa en nuestros conocimientos hasta la fecha señalada arriba. Se refiere exclusivamente al producto indicado y no constituye garantía de cualidades particulares. El usuario debe asegurarse de la idoneidad y exactitud de dicha información en relación al uso específico que debe hacer del producto.
 Esta ficha anula y sustituye toda edición precedente.

ADR: Acuerdo europeo relativo al transporte internacional de mercancías peligrosas por carretera.
 CAS: Chemical Abstracts Service (de la American Chemical Society).
 CLP: Clasificación, etiquetado, embalaje.
 DNEL: Nivel sin efecto derivado.
 EINECS: Catálogo Europeo de Sustancias Químicas Comercializadas.
 ETA: Estimación de la toxicidad aguda
 ETAmix: Estimación de Toxicidad Aguda (Mezclas)
 GefStoffVO: Ordenanza sobre sustancias peligrosas, Alemania.
 GHS: Sistema Globalmente Armonizado de clasificación y etiquetado de

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	productos químicos.
IATA:	Asociación de Transporte Aéreo Internacional.
IATA-DGR:	Normas aplicadas a las mercancías peligrosas por la "Asociación de Transporte Aéreo Internacional" (IATA).
ICAO:	Organización de la Aviación Civil Internacional.
ICAO-TI:	Instrucciones Técnicas de la "Organización de la Aviación Civil Internacional" (OACI).
IMDG:	Código marítimo internacional de mercancías peligrosas.
INCI:	Nomenclatura internacional de ingredientes cosméticos.
KSt:	Coefficiente de explosión.
LC50:	Concentración letal para el 50% de la población expuesta.
LD50:	Dosis letal para el 50% de la población expuesta.
NA:	No aplicable
PNEC:	Concentración prevista sin efecto.
RID:	Normas relativas al transporte internacional de mercancías peligrosas por ferrocarril.
STEL:	Nivel de exposición de corta duración.
STOT:	Toxicidad específica en determinados órganos.
TLV:	Valor límite del umbral.
TWA:	Promedio ponderado en el tiempo
WGK:	Clase de peligro para las aguas (Alemania).

Exposure Scenario, 17/07/2019

Substance identity	
Chemical name	IDROCARBURI C3-C4, Miscela (propano,butano,isobutano< 0,1% 1,3-Butadiene)
CAS No.	68476-40-4
EINECS No.	270-681-9

Table of contents

1. **ES 1** Use at industrial site

1. ES 1 Use at industrial site	
1.1 TITLE SECTION	
Exposure Scenario name	Use as a propellant
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 Propellant	PROC1 - PROC2 - PROC3 - PROC8b - PROC9 - PROC12
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)
1.2. CS2: Worker Contributing Scenario: Propellant (PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12)	
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 - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Use of blowing agents in manufacture of foam (PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12)
Product (article) characteristics	
Physical form of product: Liquid	
Vapour pressure: > 10 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 Keep drains in watertight containers while awaiting dismantling or subsequent recycling Use in contained systems Ensure operatives are trained to minimise exposures. Ensure that direct skin contact is avoided. Clear transfer lines prior to de-coupling. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Drain down and flush system prior to equipment break-in or maintenance.	
Conditions and measures related to personal protection, hygiene and health evaluation	

Personal protection

Wear suitable respiratory protection.

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

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.

Exposure Scenario, 17/07/2019

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

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1. **ES 1** Use at industrial site
2. **ES 2** Widespread use by professional workers
3. **ES 3** Use at industrial site
4. **ES 4** Widespread use by professional workers

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
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Worker Contributing Scenario

CS2 Industrial	PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC9 - PROC10 - PROC13 - PROC14 - 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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Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 400 t(tonnes)/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 - Tableting, compression, extrusion, pelletisation, granulation - Use as laboratory reagent (PROC5, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15)
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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
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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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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)
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Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 0.15 t(tonnes)/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 (m³/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

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
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Worker Contributing Scenario

CS2 Industrial	PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC10 - PROC13
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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)
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Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 74 t(tonnes)/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 (m³/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)
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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

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
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Worker Contributing Scenario

CS2 General use from professional operators	PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC10 - PROC11 - PROC13
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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)
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Amount used, frequency and duration of use (or from service life)

Amounts used:

Annual site tonnage 0.012 t(tonnes)/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 (m³/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)
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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, 16/07/2019

Substance identity	
Chemical name	ALCOOL ISOPROPILICO; PROPAN-2-OLO
CAS No.	67-63-0
EINECS No.	200-661-7

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1. **ES 1** Use at industrial site
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6. **ES 6** Consumer use; Various products (PC9b, PC9a, PC1, PC4, PC8)
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8. **ES 8** Consumer use; Anti-freeze and de-icing products (PC4)

1. ES 1 Use at industrial site	
1.1 TITLE SECTION	
Exposure Scenario name	Use in cleaning agents
Date - Version	16/07/2019 - 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 Solvent-based process	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: Solvent-based process (ERC4)	
Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
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)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid, vapour pressure 0,5 - 10 kPa at STP	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Keep drains in watertight containers while awaiting dismantling or subsequent recycling Ensure that direct skin contact is avoided. Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Drain down system prior to equipment break-in or maintenance.	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
Personal protection Use suitable eye protection.	
<i>Other conditions affecting worker exposure</i>	

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

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	Use in coatings
Date - Version	16/07/2019 - 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 Solvent-based process	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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2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Solvent-based process (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 (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, vapour pressure 0,5 - 10 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

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

- Keep drains in watertight containers while awaiting dismantling or subsequent recycling
- Ensure that direct skin contact is avoided.
- Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
- Carry out in a vented booth or extracted enclosure.

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

Personal protection

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

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 Widespread use by professional workers

3.1 TITLE SECTION

Exposure Scenario name	Use in coatings
Date - Version	16/07/2019 - 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 Solvent-based process	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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3.2 Conditions of use affecting exposure

3.2. 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)
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3.2. 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, vapour pressure 0,5 - 10 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

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Ensure that direct skin contact is avoided.
Carry out in a vented booth or extracted enclosure.
Store substance within a closed system.

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

Personal protection

Use suitable eye protection.

Wear a respirator conforming to EN140.

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	Use in cleaning agents
Date - Version	16/07/2019 - 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 Solvent-based process	ERC8a - ERC8d
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Worker Contributing Scenario

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

4.2. 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)
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4.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15)

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 - Use as laboratory reagent (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 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

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Ensure that direct skin contact is avoided.
Avoid carrying out activities involving exposure for more than 15 minutes per day.
Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
Store substance within a closed system.

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

Personal protection

Use suitable eye protection.

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

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	De-icing and anti-icing applications
Date - Version	16/07/2019 - 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 Solvent-based process	ERC8d
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Worker Contributing Scenario

CS2 General use from professional operators	PROC1 - PROC2 - PROC8a - PROC8b - PROC11
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5.2 Conditions of use affecting exposure

5.2. CS1: Environment Contributing Scenario: Solvent-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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5.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1, PROC2, PROC8a, PROC8b, PROC11)

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 - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Non industrial spraying (PROC1, PROC2, PROC8a, PROC8b, PROC11)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure 0,5 - 10 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

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Technical and organisational measures

Ensure that direct skin contact is avoided.
Avoid carrying out activities involving exposure for more than 1 hour per day.
Clear transfer lines prior to de-coupling.

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

Personal protection

Use suitable eye protection.

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

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 (PC9b, PC9a, PC1, PC4, PC8)

6.1 TITLE SECTION

Exposure Scenario name	Use in coatings
Date - Version	16/07/2019 - 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) - Lubricants, greases, release products (PC24) - Polishes and wax blends (PC31) - Textile dyes and impregnating products (PC34)

Environment Contributing Scenario

CS1 Solvent-based process	ERC8a - ERC8d
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Consumer Contributing Scenario

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

6.2. 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)
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6.2. CS2: Consumer Contributing Scenario: Use in coatings (PC9b, PC9a, PC1, PC4, PC8, PC15, PC18, 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 - Lubricants, greases, release products - Polishes and wax blends - Textile dyes and impregnating products (PC9b, PC9a, PC1, PC4, PC8, PC15, PC18, PC24, PC31, PC34)
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Product (article) characteristics

Physical form of product:

Liquid, vapour pressure > 10 kPa at STP

Concentration of substance in product:

Covers concentrations up to 50 %

Additional conditions human health

Covers skin contact area up to 430 cm²

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 10 g

Frequency:

Covers exposure up to 1 events per day

Frequency:

Covers frequency up to: 365 days per year

Other conditions affecting consumers exposure

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

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 (PC3, PC4, PC8, PC24, PC35)	
7.1 TITLE SECTION	
Exposure Scenario name	Use in cleaning agents
Date - Version	16/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	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 Solvent-based process	ERC8a - ERC8d
Consumer Contributing Scenario	
CS2 Detergent liquids	PC9a - PC3 - PC4 - PC8 - PC24 - PC35 - PC38
7.2 Conditions of use affecting exposure	
7.2. 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)
7.2. CS2: Consumer Contributing Scenario: Detergent liquids (PC9a, PC3, PC4, PC8, PC24, PC35, PC38)	
Product Categories	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 (PC9a, PC3, PC4, PC8, PC24, PC35, PC38)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid, vapour pressure > 10 kPa at STP	
Concentration of substance in product: Covers concentrations up to 50 %	
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used: Amount per use 100 g	
Frequency: Covers use up to 365 days per year	
Frequency: Covers use up to 1 uses per day	
<i>Other conditions affecting consumers exposure</i>	
Room size: Covers use in a one car garage (>34 m ³) under typical ventilation.	
Temperature: Covers use at ambient temperatures.	
Additional conditions human health Covers skin contact area up to 428 cm ²	

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; Anti-freeze and de-icing products (PC4)

8.1 TITLE SECTION

Exposure Scenario name	De-icing and anti-icing applications
Date - Version	16/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Anti-freeze and de-icing products (PC4)

Environment Contributing Scenario

CS1 Solvent-based process	ERC4
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Consumer Contributing Scenario

CS2 De-icing and anti-icing applications	PC24
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8.2 Conditions of use affecting exposure

8.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC4)

Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
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8.2. CS2: Consumer Contributing Scenario: De-icing and anti-icing applications (PC24)

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

Physical form of product:

Liquid, vapour pressure > 10 kPa at STP

Concentration of substance in product:

Covers concentrations up to 10 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use 2000 g

Duration:

Covers use up to 0.25 h/event

Frequency:

Covers exposure up to 365 days per year

Other conditions affecting consumers exposure

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

Temperature: Covers use at ambient temperatures.

Additional conditions human health

Covers skin contact area up to 428 cm²

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.