

# Ficha de datos de seguridad

## COCKPIT CLEANER high gloss VANILLA



### Ficha de datos de seguridad del 22/9/2021, Revisión 6

#### 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 VANILLA

Código comercial: 31011

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

Uso recomendado:

detergente para salpicaderos

##### 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, Skin Irrit. 2, Provoca irritación cutánea.

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

⚠ 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.

H315 Provoca irritación cutánea.

H319 Provoca irritación ocular grave.

H336 Puede provocar somnolencia o vértigo.

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

Consejos de prudencia:

P101 Si se necesita consejo médico, tener a mano el envase o la etiqueta.



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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:

Benzyl salicylate

2.3. Otros peligros

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

Otros riesgos:

Ningún otro riesgo

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## 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:

$\geq 70\%$  - < 80% Hidrocarburos, C3-4; gas de petróleo

REACH No.: 01-2119486557-22, Número Index: 649-199-00-1, CAS: 68476-40-4, EC: 270-681-9

⚠ 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

REACH No.: 01-2119475515-33, EC: 927-510-4

⚠ 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; isopropanol

REACH No.: 01-2119457558-25, Número Index: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.3/2 Eye Irrit. 2 H319

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◇ 3.8/3 STOT SE 3 H336

\*DECLK (CLP): Sustancia clasificada de acuerdo con la nota K del anexo VI del Reglamento CE 1272/2008. No es necesario aplicar la clasificación como carcinógeno o mutágeno si puede demostrarse que la sustancia contiene menos del 0,1 % en peso de 1,3-butadieno (n.o EINECS 203-450-8). Si la sustancia no está clasificada como carcinógeno o mutágeno, deberán aplicarse como mínimo los consejos de prudencia (P102-)P210-P403. Esta nota solo se aplica a determinadas sustancias complejas derivadas del petróleo incluidas en la parte 3.

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### 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

#### 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

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### SECCIÓN 5. Medidas de lucha contra incendios

#### 5.1. Medios de extinción

Medios de extinción apropiados:

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

Utilizar equipos respiratorios apropiados.

Recoger por separado el agua contaminada utilizada para extinguir el incendio. No descargarla en la red de alcantarillado.

Si es posible, desde el punto de vista de la seguridad, retirar de inmediato del área los contenedores no dañados.

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### 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.

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- 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
  - Lavar con abundante agua.
- 6.4. Referencia a otras secciones
  - Véanse también los apartados 8 y 13.

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#### 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.
  - 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
  - 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 piensos.
  - Ninguna en particular.
  - Indicaciones para los locales:  
Frescos y adecuadamente aireados.
- 7.3. Usos específicos finales
  - Ningún uso particular

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#### SECCIÓN 8. Controles de exposición/protección individual

- 8.1. Parámetros de control
  - Hydrocarburos, C3-4; gas de petróleo - CAS: 68476-40-4
    - MAK - TWA: 2400 mg/m<sup>3</sup>, 1000 ppm
    - TLV TWA - 1900 mg/m<sup>3</sup>, 800 ppm
  - Hydrocarburos, C7, n-alkanes, isoalkanes, cyclics
    - UE
  - Propan-2-ol; alcohol isopropílico; isopropanol - CAS: 67-63-0
    - 20101.11 - TWA: 983 mg/m<sup>3</sup>, 400 ppm
    - 20101.12 - TWA: 492 mg/m<sup>3</sup>, 200 ppm
    - ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notas: A4, BEI - Eye and URT irr, CNS impair
- 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

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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)

Trabajador profesional: 500 mg/m<sup>3</sup> - Consumidor: 89 mg/m<sup>3</sup> - Exposición: Por inhalación humana - Frecuencia: A largo plazo (repetida)

Consumidor: 26 mg/kg - Exposición: Oral humana - Frecuencia: A largo plazo (repetida)

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

### 8.2. Controles de la exposición

Protección de los ojos:

Utilizar viseras de seguridad cerradas, no usar lentes oculares.

Protección de la piel:

No se requiere ninguna precaución especial para el uso normal.

Protección de las manos:

Utilizar guantes de protección que garanticen una protección total, por ejemplo de PVC, neopreno o caucho.

Protección respiratoria:

Utilizar una protección respiratoria adecuada.

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:	N.A.	--	--
Olor:	característico	--	--
Punto de fusión/punto de congelación:	N.A.	--	--
Punto de ebullición o punto inicial de ebullición e intervalo de ebullición:	80°C	--	--
Inflamabilidad:	N.A.	--	--
Límite superior e inferior	N.A.	--	--

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de explosividad:			
Punto de ignición (flash point, fp):	-17°C	--	--
Temperatura de autoencendido:	N.A.	--	--
Temperatura de descomposición:	N.A.	--	--
pH:	N.A.	--	--
Viscosidad cinemática:	N.A.	--	--
Hidrosolubilidad:	insoluble	--	--
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:	0.64	--	--
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 en condiciones normales

10.3. Posibilidad de reacciones peligrosas

Puede generar gases inflamables en contacto con ditiocarbamatos, mercaptanos y otros sulfuros orgánicos, elementos metálicos (alcalinos, alcalinotérreos, aleaciones en polvo o vapor) y agentes reductores fuertes.

Puede generar gases tóxicos en contacto con fluoruros inorgánicos, sustancias orgánicas halogenadas, sulfuros, nitruros, nitrilos, compuestos organofosforados, fosfotioatos, fosfoditioatos y agentes oxidantes fuertes.

Puede inflamarse en contacto con ditiocarbamatos, elementos metálicos (alcalinos, alcalinotérreos, aleaciones en polvo o vapor, láminas o barras) y nitruros.

10.4. Condiciones que deben evitarse

Estable en condiciones normales.

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 VANILLA 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

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.

Hydrocarburos, C3-4; gas de petróleo - CAS: 68476-40-4

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- 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
- 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  
N.A.
- 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.

### 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  
IMDG-Clase: 2 UN 1950
- 14.4. Grupo de embalaje





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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	
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)

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 70

Compuestos orgánicos volátiles - COV = 94.05 %

Compuestos orgánicos volátiles - COV = 940.52 g/Kg

31011/6

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## Ficha de datos de seguridad COCKPIT CLEANER high gloss VANILLA

Compuestos orgánicos volátiles - COV = 601.93 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  
Ninguna

### 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.

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
Asp. Tox. 1	3.10/1	Peligro por aspiración, Categoría 1
Skin Irrit. 2	3.2/2	Irritación cutánea, Categoría 2
Eye Irrit. 2	3.3/2	Irritación ocular, Categoría 2
STOT SE 3	3.8/3	Toxicidad específica en determinados órganos (exposiciones única), Categoría 3
Aquatic Chronic 2	4.1/C2	Peligro crónico (a largo plazo) para el medio ambiente acuático, Categoría 2
Aquatic Chronic 3	4.1/C3	Peligro crónico (a largo plazo) para el medio ambiente acuático, Categoría 3

La presente ficha ha sido revisada en todas sus secciones en conformidad al Reglamento 2020/878. Clasificación y procedimiento utilizado para determinar la clasificación de las mezclas con arreglo al Reglamento (CE) nº 1272/2008 [CLP]:

**Ficha de datos de seguridad**  
**COCKPIT CLEANER high gloss VANILLA**



<b>Clasificación con arreglo al Reglamento (CE) nº 1272/2008</b>	<b>Procedimiento de clasificación</b>
Aerosols 1, H222, H229	Conforme a datos obtenidos de los ensayos
Skin Irrit. 2, H315	Método de cálculo
Eye Irrit. 2, H319	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 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: Coeficiente 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.

**Ficha de datos de seguridad**  
**COCKPIT CLEANER high gloss VANILLA**



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
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### Worker Contributing Scenario

CS2 Propellant	PROC1 - PROC2 - PROC3 - PROC8b - PROC9 - PROC12
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## 1.2 Conditions of use affecting exposure

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

Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
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### 1.2. CS2: Worker Contributing Scenario: 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)
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### *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

<b>Chemical name</b>	Heptane HYDROCARBONS C7, N-ALKANES, ISOALKANES, CYCLICS
<b>EINECS No.</b>	927-510-4

## Table of contents

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 (m<sup>3</sup>/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)

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

Liquid

**Vapour pressure:**

&lt; 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
---	--

## 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(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 (m<sup>3</sup>/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
----------------	---

### 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 (m<sup>3</sup>/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)**

<b>Process Categories</b>	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)
----------------------------------	---

### *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 (m<sup>3</sup>/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)

<b>Process Categories</b>	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
2. **ES 2** Use at industrial site
3. **ES 3** Widespread use by professional workers
4. **ES 4** Widespread use by professional workers
5. **ES 5** Widespread use by professional workers
6. **ES 6** Consumer use; Various products (PC9b, PC9a, PC1, PC4, PC8)
7. **ES 7** Consumer use; Various products (PC3, PC4, PC8, PC24, PC35)
8. **ES 8** Consumer use; Anti-freeze and de-icing products (PC4)

1. ES 1 Use at industrial site	
<b>1.1 TITLE SECTION</b>	
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)
<b>Environment Contributing Scenario</b>	
CS1 Solvent-based process	ERC4
<b>Worker Contributing Scenario</b>	
CS2 Industrial	PROC1 - PROC2 - PROC3 - PROC4 - PROC7 - PROC8a - PROC8b - PROC10 - PROC13
<b>1.2 Conditions of use affecting exposure</b>	
<b>1.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC4)</b>	
Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
<b>1.2. CS2: Worker Contributing Scenario: Industrial (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13)</b>	
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)
<b>Product (article) characteristics</b>	
<b>Physical form of product:</b> Liquid, vapour pressure 0,5 - 10 kPa at STP	
<b>Concentration of substance in product:</b> Covers percentage substance in the product up to 100 %.	
<b>Amount used, frequency and duration of use/exposure</b>	
<b>Duration:</b> Covers daily exposures up to 8 hours	
<b>Technical and organisational conditions and measures</b>	
<b>Technical and organisational measures</b> 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.	
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
<b>Personal protection</b> Use suitable eye protection.	
<b>Other conditions affecting worker exposure</b>	

**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

<b>Exposure Scenario name</b>	Use in coatings
<b>Date - Version</b>	16/07/2019 - 1.0
<b>Life Cycle Stage</b>	Use at industrial site
<b>Main user group</b>	Industrial uses
<b>Sector(s) of use</b>	Industrial uses (SU3)

#### Environment Contributing Scenario

<b>CS1 Solvent-based process</b>	ERC4
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#### Worker Contributing Scenario

<b>CS2 Industrial</b>	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)

<b>Environmental release categories</b>	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)

<b>Process Categories</b>	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

<b>Exposure Scenario name</b>	Use in coatings
<b>Date - Version</b>	16/07/2019 - 1.0
<b>Life Cycle Stage</b>	Widespread use by professional workers
<b>Main user group</b>	Professional uses
<b>Sector(s) of use</b>	Professional uses (SU22)

#### Environment Contributing Scenario

<b>CS1 Solvent-based process</b>	ERC8a - ERC8d
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#### Worker Contributing Scenario

<b>CS2 General use from professional operators</b>	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)

<b>Environmental release categories</b>	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)

<b>Process Categories</b>	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

### Worker Contributing Scenario

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

## 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)

### 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)

### *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

<b>Exposure Scenario name</b>	De-icing and anti-icing applications
<b>Date - Version</b>	16/07/2019 - 1.0
<b>Life Cycle Stage</b>	Widespread use by professional workers
<b>Main user group</b>	Professional uses
<b>Sector(s) of use</b>	Professional uses (SU22)

#### Environment Contributing Scenario

<b>CS1 Solvent-based process</b>	ERC8d
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#### Worker Contributing Scenario

<b>CS2 General use from professional operators</b>	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)

<b>Environmental release categories</b>	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)

<b>Process Categories</b>	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

<b>Exposure Scenario name</b>	Use in coatings
<b>Date - Version</b>	16/07/2019 - 1.0
<b>Life Cycle Stage</b>	Consumer use
<b>Main user group</b>	Consumer uses
<b>Sector(s) of use</b>	Consumer uses (SU21)
<b>Product Categories</b>	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

<b>CS1 Solvent-based process</b>	ERC8a - ERC8d
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### Consumer Contributing Scenario

<b>CS2 Use in coatings</b>	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)

<b>Environmental release categories</b>	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)

<b>Product Categories</b>	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 cm<sup>2</sup>

### *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 m<sup>3</sup>) 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

<b>Exposure Scenario name</b>	Use in cleaning agents
<b>Date - Version</b>	16/07/2019 - 1.0
<b>Life Cycle Stage</b>	Consumer use
<b>Main user group</b>	Consumer uses
<b>Sector(s) of use</b>	Consumer uses (SU21)
<b>Product Categories</b>	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

<b>CS1 Solvent-based process</b>	ERC8a - ERC8d
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### Consumer Contributing Scenario

<b>CS2 Detergent liquids</b>	PC9a - PC3 - PC4 - PC8 - PC24 - PC35 - PC38
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## 7.2 Conditions of use affecting exposure

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

<b>Environmental release categories</b>	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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### 7.2. CS2: Consumer Contributing Scenario: Detergent liquids (PC9a, PC3, PC4, PC8, PC24, PC35, PC38)

<b>Product Categories</b>	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)
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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 %

### *Amount used, frequency and duration of use/exposure*

#### **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

### *Other conditions affecting consumers exposure*

**Room size:** Covers use in a one car garage (>34 m<sup>3</sup>) under typical ventilation.

**Temperature:** Covers use at ambient temperatures.

#### **Additional conditions human health**

Covers skin contact area up to 428 cm<sup>2</sup>



## 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 m<sup>3</sup>) under typical ventilation.

**Temperature:** Covers use at ambient temperatures.

##### Additional conditions human health

Covers skin contact area up to 428 cm<sup>2</sup>

## 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.