

# Fiche de Données de Sécurité

## PETRONAS DURANCE COCKPIT CLEANER SHINE



### Fiche signalétique du 15/3/2021, révision 7

#### RUBRIQUE 1 — Identification de la substance/du mélange et de la société/de l'entreprise

##### 1.1. Identificateur de produit

Identification du mélange:

Dénomination commerciale: PETRONAS DURANCE COCKPIT CLEANER SHINE

Code commercial: 7042

##### 1.2. Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

Usage recommandé :

détergent tableaux de bord

##### 1.3. Renseignements concernant le fournisseur de la fiche de données de sécurité

Fournisseur:

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

Personne chargée de la fiche de données de sécurité:

arexons@arexons.it

##### 1.4. Numéro d'appel d'urgence

Arexons S.p.A.

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

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

Centre Antipoisons Belge 070 245 245 (7 jours sur 7, 24 heures sur 24)

centres Anti-poison Français: numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59

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

#### RUBRIQUE 2 — Identification des dangers

##### 2.1. Classification de la substance ou du mélange

Critères Règlement CE 1272/2008 (CLP) :

⚠ Danger, Aerosols 1, Aérosol extrêmement inflammable. Récipient sous pression: peut éclater sous l'effet de la chaleur.

⚠ Attention, Skin Irrit. 2, Provoque une irritation cutanée.

⚠ Attention, Eye Irrit. 2, Provoque une sévère irritation des yeux.

⚠ Attention, STOT SE 3, Peut provoquer somnolence ou vertiges.

Aquatic Chronic 3, Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.

Effets physico-chimiques nocifs sur la santé humaine et l'environnement :

Aucun autre danger

##### 2.2. Éléments d'étiquetage

Pictogrammes de danger:



Danger

Mentions de danger:

H222, H229 Aérosol extrêmement inflammable. Récipient sous pression: peut éclater sous l'effet de la chaleur.

H315 Provoque une irritation cutanée.

H319 Provoque une sévère irritation des yeux.

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H336 Peut provoquer somnolence ou vertiges.

H412 Nocif pour les organismes aquatiques, entraîne des effets néfastes à long terme.

Conseils de prudence:

P101 En cas de consultation d'un médecin, garder à disposition le récipient ou l'étiquette.

P102 Tenir hors de portée des enfants.

P103 Lire attentivement et bien respecter toutes les instructions.

P210 Tenir à l'écart de la chaleur, des surfaces chaudes, des étincelles, des flammes nues et de toute autre source d'inflammation. Ne pas fumer.

P211 Ne pas vaporiser sur une flamme nue ou sur toute autre source d'ignition.

P251 Ne pas perforer, ni brûler, même après usage.

P271 Utiliser seulement en plein air ou dans un endroit bien ventilé.

P405 Garder sous clef.

P410+P412 Protéger du rayonnement solaire. Ne pas exposer à une température supérieure à 50 °C/122 °F.

P501 Éliminer le contenu/récipient conformément à la réglementation.

Dispositions spéciales:

Aucune

Contient

Hydrocarbures, C7, n-alkanes, isoalkanes, cyclics

propan-2-ol; alcool isopropylique; isopropanol

Dispositions particulières conformément à l'Annexe XVII de REACH et ses amendements successifs:

Aucune

Règlement (CE) no 648/2004 (détergents).

Contenu du produit :

Hydrocarbures aliphatiques > 30 %

Le produit contient Parfums

également :

Allergènes : Alpha-n-hexylcinnamicaldehyde

Agents conservateurs: N-C12-16 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE.

2.3. Autres dangers

Aucune substance PBT, vPvB ou perturbateurs endocriniens present en concentration >= 0.1%

Autres dangers:

Aucun autre danger

### RUBRIQUE 3 — Composition/informations sur les composants

3.1. Substances

N.A.

3.2. Mélanges

Composants dangereux aux termes du Règlement CLP et classification relative :

>= 70% - < 80% Hydrocarbures en C3-4; gaz de pétrole

REACH No.: 01-2119486557-22, Numéro 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)\*

>= 15% - < 20% Hydrocarbures, 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

⚠

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4.1/C2 Aquatic Chronic 2 H411

- >= 5% - < 7% propan-2-ol; alcool isopropylique; isopropanol  
REACH No.: 01-2119457558-25, Numéro 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
  - ⚠ 3.8/3 STOT SE 3 H336
- >= 0.05% - < 0.1% N-C12-16 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE.  
REACH No.: 01-2119970550-39, CAS: 68424-85-1, EC: 939-350-2
- ⚠ 2.16/1 Met. Corr. 1 H290
  - ⚠ 3.1/4/Oral Acute Tox. 4 H302
  - ⚠ 3.2/1B Skin Corr. 1B H314
  - ⚠ 3.3/1 Eye Dam. 1 H318
  - ⚠ 4.1/A1 Aquatic Acute 1 H400 M=10.
  - ⚠ 4.1/C1 Aquatic Chronic 1 H410

\*DECLK (CLP): Substance classée conformément à la note K de l'annexe VI du Règlement (CE) 1272/2008. La classification comme cancérogène ou mutagène peut ne pas s'appliquer s'il peut être établi que la substance contient moins de 0,1 % poids/poids de 1,3-butadiène (no Einecs 203-450-8). Si la substance n'est pas classée comme cancérogène ou mutagène, il convient d'appliquer pour le moins les conseils de prudence (P102-)P210-P403. La présente note ne s'applique qu'à certaines substances complexes dérivées du pétrole, visées dans la partie 3.

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### RUBRIQUE 4 — Premiers secours

#### 4.1. Description des mesures de premiers secours

En cas de contact avec la peau :

Enlever immédiatement les vêtements contaminés.

Laver immédiatement avec beaucoup d'eau et éventuellement du savon les parties du corps ayant été en contact avec le produit, même en cas de doute.

Laver entièrement le corps (douche ou bain).

Enlever immédiatement les vêtements contaminés et les éliminer de manière sûre.

En cas de contact avec la peau, laver immédiatement à l'eau abondante et au savon.

En cas de contact avec les yeux :

En cas de contact avec les yeux, les rincer à l'eau pendant un intervalle de temps adéquat et en tenant les paupières ouvertes, puis consulter immédiatement un ophtalmologue.

Protéger l'œil indemne.

En cas d'ingestion :

Ne faire vomir en aucun cas. CONSULTER IMMEDIATEMENT UN MEDECIN.

En cas d'inhalation :

Transporter la victime à l'extérieur et la maintenir au chaud et au repos.

#### 4.2. Principaux symptômes et effets, aigus et différés

Aucun

#### 4.3. Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

En cas d'incident ou de malaise, consulter immédiatement un médecin (lui montrer, si possible, les instructions pour l'utilisation ou la fiche de sécurité).

Traitement :

Aucun

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### RUBRIQUE 5 — Mesures de lutte contre l'incendie

#### 5.1. Moyens d'extinction

Moyen d'extinction approprié:

À anhydride carbonique

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À poudre  
mousse

Eau nébulisée.

Moyen d'extinction non recommandé:

Ne pas utiliser de jets d'eau directs.

- 5.2. Dangers particuliers résultant de la substance ou du mélange  
Ne pas inhaler les gaz produits par l'explosion et la combustion.  
La combustion produit de la fumée lourde.

5.3. Conseils aux pompiers

Utiliser des appareils respiratoires adaptés.

Recueillir séparément l'eau contaminée utilisée pour éteindre l'incendie. Ne pas la déverser dans le réseau des eaux usées.

Si cela est faisable d'un point de vue de la sécurité, déplacer de la zone de danger immédiat les conteneurs non endommagés.

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### RUBRIQUE 6 — Mesures à prendre en cas de dispersion accidentelle

6.1. Précautions individuelles, équipement de protection et procédures d'urgence

Porter les dispositifs de protection individuelle.

Éliminer toute source d'allumage.

Emmener les personnes en lieu sûr.

Consulter les mesures de protection exposées aux points 7 et 8.

6.2. Précautions pour la protection de l'environnement

Empêcher la pénétration dans le sol/sous-sol. Empêcher l'écoulement dans les eaux superficielles ou dans le réseau des eaux usées.

Retenir l'eau de lavage contaminée et l'éliminer.

En cas de fuite de gaz ou de pénétration dans les cours d'eau, le sol ou le système d'évacuation d'eau, informer les autorités responsables.

Matériel adapté à la collecte : matériel absorbant, organique, sable.

6.3. Méthodes et matériel de confinement et de nettoyage

Laver à l'eau abondante.

6.4. Référence à d'autres rubriques

Voir également les paragraphes 8 et 13.

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### RUBRIQUE 7 — Manipulation et stockage

7.1. Précautions à prendre pour une manipulation sans danger

Éviter le contact avec la peau et les yeux, l'inhalation de vapeurs et brouillards.

Ne pas utiliser de conteneurs vides avant qu'ils n'aient été nettoyés.

Avant les opérations de transfert, s'assurer que les conteneurs ne contiennent pas de matériaux incompatibles résiduels.

Voir également le paragraphe 8 pour les dispositifs de protection recommandés.

Les vêtements contaminés doivent être remplacés avant d'accéder aux zones de repas.

Ne pas manger et ne pas boire pendant le travail.

7.2. Conditions d'un stockage sûr, y compris les éventuelles incompatibilités

Stocker à des températures inférieures à 50°C. Conserver à une distance éloignée de flammes libres et de sources de chaleur. Éviter l'exposition directe au soleil.

Conserver à une distance éloignée de flammes libres, d'étincelles et de sources de chaleur.

Éviter l'exposition directe au soleil.

Tenir loin de la nourriture, des boissons et aliments pour animaux.

Aucune en particulier.

Indication pour les locaux:

Frais et bien aérés.

7.3. Utilisation(s) finale(s) particulière(s)

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Aucune utilisation particulière



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### RUBRIQUE 8 — Contrôles de l'exposition/protection individuelle

#### 8.1. Paramètres de contrôle

Hydrocarbures en C3-4; gaz de pétrole - CAS: 68476-40-4

MAK - TWA: 2400 mg/m<sup>3</sup>, 1000 ppm

TLV TWA - 1900 mg/m<sup>3</sup>, 800 ppm

Hydrocarbures, C7, n-alkanes, isoalkanes, cyclics

UE

propan-2-ol; alcool isopropylique; 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 - Remarques: A4, BEI - Eye and URT irr, CNS impair

#### Valeurs limites d'exposition DNEL

Hydrocarbures, C7, n-alkanes, isoalkanes, cyclics

Travailleur professionnel: 300 mg/kg - Exposition: Cutanée humaine - Fréquence: Long terme, effets systémiques

Travailleur professionnel: 508 ppm - Exposition: Inhalation humaine - Fréquence: Court terme, effets systémiques

Consommateur: 149 mg/kg - Exposition: Cutanée humaine - Fréquence: Long terme, effets systémiques

Consommateur: 109 ppm - Exposition: Inhalation humaine - Fréquence: Long terme, effets systémiques

Consommateur: 149 mg/kg - Exposition: Orale humaine - Fréquence: Long terme, effets systémiques

propan-2-ol; alcool isopropylique; isopropanol - CAS: 67-63-0

Travailleur professionnel: 888 mg/kg - Consommateur: 319 mg/kg - Exposition: Cutanée humaine - Fréquence: Long terme (répétée)

Travailleur professionnel: 500 mg/m<sup>3</sup> - Consommateur: 89 mg/m<sup>3</sup> - Exposition: Inhalation humaine - Fréquence: Long terme (répétée)

Consommateur: 26 mg/kg - Exposition: Orale humaine - Fréquence: Long terme (répétée)

#### Valeurs limites d'exposition PNEC

propan-2-ol; alcool isopropylique; isopropanol - CAS: 67-63-0

Cible: Eau douce - valeur: 140.9 mg/l

Cible: Eau douce - valeur: 140.9 mg/l

Cible: Sédiments d'eau douce - valeur: 552 mg/l

Cible: Sol (agricole) - valeur: 28 mg/kg

Cible: Micro-organismes dans les traitements des eaux usées - valeur: 2251 mg/l

#### 8.2. Contrôles de l'exposition

##### Protection des yeux:

Lunettes avec protection latérale.

Conforme à la norme EN 166

##### Protection de la peau:

L'adoption de précautions spéciales n'est pas requise pour une utilisation normale.

##### Protection des mains:

Gants en nitrile ou Viton.

Conforme à la norme EN 374.

##### Protection respiratoire:

Utiliser un dispositif de protection des voies respiratoires adéquat.

##### Risques thermiques :

Aucun

##### Contrôles de l'exposition environnementale :

Aucun

##### Contrôles techniques appropriés

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Aucun



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**RUBRIQUE 9 — Propriétés physiques et chimiques**

9.1. Informations sur les propriétés physiques et chimiques essentielles

Propriétés	valeur	Méthode :	Remarques
État physique:	Liquide	--	--
Couleur:	N.A.	--	--
Odeur:	caractéristique	--	--
Point de fusion/point de congélation:	N.A.	--	--
Point d'ébullition ou point initial d'ébullition et intervalle d'ébullition:	N.A.	--	--
Inflammabilité:	N.A.	--	--
Limites inférieure et supérieure d'explosion:	N.A.	--	--
Point éclair:	N.A.	--	--
Température d'auto-inflammabilité :	N.A.	--	--
Température de décomposition:	N.A.	--	--
pH :	N.A.	--	--
Viscosité cinématique:	N.A.	--	--
Hydrosolubilité:	insoluble	--	--
Solubilité dans l'huile :	N.A.	--	--
Coefficient de partage n-octanol/eau (valeur log):	N.A.	--	--
Pression de vapeur:	N.A.	--	--
Densité et/ou densité relative:	N.A.	--	--
Densité de vapeur relative:	N.A.	--	--
Caractéristiques des particules:			
Taille des particules:	N.A.	--	--

9.2. Autres informations

Pas autres informations importantes

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### RUBRIQUE 10 — Stabilité et réactivité

- 10.1. Réactivité  
Stable en conditions normales
- 10.2. Stabilité chimique  
Stable en conditions normales
- 10.3. Possibilité de réactions dangereuses  
Aucun
- 10.4. Conditions à éviter  
Stable dans des conditions normales.
- 10.5. Matières incompatibles  
Éviter tout contact avec des matières comburantes. Le produit peut prendre feu.
- 10.6. Produits de décomposition dangereux  
Aucun.

### RUBRIQUE 11 — Informations toxicologiques

11.1. Informations sur les classes de danger telles que définies dans le règlement (CE) no 1272/2008  
Informations toxicologiques sur le produit :

PETRONAS DURANCE COCKPIT CLEANER SHINE

- a) toxicité aiguë  
Non classé  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- b) corrosion cutanée/irritation cutanée  
Le produit est classé: Skin Irrit. 2 H315
- c) lésions oculaires graves/irritation oculaire  
Le produit est classé: Eye Irrit. 2 H319
- d) sensibilisation respiratoire ou cutanée  
Non classé  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- e) mutagénicité sur les cellules germinales  
Non classé  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- f) cancérogénicité  
Non classé  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- g) toxicité pour la reproduction  
Non classé  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- h) toxicité spécifique pour certains organes cibles — exposition unique  
Le produit est classé: STOT SE 3 H336
- i) toxicité spécifique pour certains organes cibles – exposition répétée  
Non classé  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- j) danger par aspiration  
Non classé  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Informations toxicologiques sur les substances principales se trouvant dans le produit :

Hydrocarbures, C7, n-alkanes, isoalkanes, cycliques

- a) toxicité aiguë:  
Test: LC50 - Voie: Inhalation - Espèces: Rat > 23.3 mg/l - Durée: 4h  
Test: LD50 - Voie: Orale - Espèces: Rat > 8 ml/kg  
Test: LD50 - Voie: Peau - Espèces: Lapin 2800-3100 mg/kg  
propan-2-ol; alcool isopropylique; isopropanol - CAS: 67-63-0
- a) toxicité aiguë:  
Test: LD50 - Voie: Orale - Espèces: Rat > 5000 mg/kg

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Test: LD50 - Voie: Peau - Espèces: Lapin > 5000 mg/kg  
Test: LC50 - Voie: Inhalation - Espèces: Rat > 10000 ppm - Durée: 6h  
N-C12-16 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE. - CAS: 68424-85-1  
a) toxicité aiguë:  
Test: LD50 - Voie: Orale - Espèces: Rat 426 mg/kg  
Test: LD50 - Voie: Peau - Espèces: Rat 400-2000 mg/kg

### 11.2. Informations sur les autres dangers

Propriétés perturbantes le système endocrinien:

Aucun perturbateur endocrinien present en concentration  $\geq 0.1\%$

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## RUBRIQUE 12 — Informations écologiques

### 12.1. Toxicité

Utiliser le produit rationnellement en évitant de le disperser dans la nature.

Hydrocarbures en C3-4; gaz de pétrole - CAS: 68476-40-4

a) Toxicité aquatique aiguë:

Point final: LC50 - Espèces: Daphnie = 14.22 mg/l - Durée h: 48

Hydrocarbures, C7, n-alkanes, isoalkanes, cyclics

b) Toxicité aquatique chronique:

Point final: EC50 - Espèces: Algues > 10-30 mg/l - Durée h: 72

Point final: LC50 - Espèces: Poissons > 13.4 mg/l - Durée h: 96

propan-2-ol; alcool isopropylique; isopropanol - CAS: 67-63-0

a) Toxicité aquatique aiguë:

Point final: LC50 - Espèces: Poissons 4200 mg/l - Durée h: 96

Point final: LC50 - Espèces: Poissons > 100 mg/l - Durée h: 48

Point final: EC50 - Espèces: Daphnie > 100 mg/l - Durée h: 48

Point final: EC50 - Espèces: Algues > 100 mg/l - Durée h: 72

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

a) Toxicité aquatique aiguë:

Point final: EC50 - Espèces: Algues 670 µg/l - Durée h: 96

Point final: EC50 - Espèces: Daphnie 5.9 ppb - Durée h: 48

Point final: LC50 - Espèces: Poissons 0.28 ppm - Durée h: 96

b) Toxicité aquatique chronique:

Point final: NOEC - Espèces: Daphnie 0.025 mg/l - Durée h: 504

### 12.2. Persistance et dégradabilité

Aucun

propan-2-ol; alcool isopropylique; isopropanol - CAS: 67-63-0

Biodégradabilité: Rapidement dégradable - Durée h: .10gg - %: 70

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

Biodégradabilité: Rapidement dégradable - Test: BIOGDG08 - Durée h: 28gg - %: 61

### 12.3. Potentiel de bioaccumulation

N.A.

### 12.4. Mobilité dans le sol

N.A.

### 12.5. Résultats des évaluations PBT et vPvB

Substances vPvB: Aucune - Substances PBT: Aucune

### 12.6. Propriétés perturbant le système endocrinien

Aucun perturbateur endocrinien present en concentration  $\geq 0.1\%$

### 12.7. Autres effets néfastes

Aucun

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## RUBRIQUE 13 — Considérations relatives à l'élimination

### 13.1. Méthodes de traitement des déchets

Récupérer si possible. Envoyer à des usines de traitement autorisées ou à l'incinération dans des conditions contrôlées. Opérer en respectant les dispositions locales et nationales en vigueur.



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### RUBRIQUE 14 — Informations relatives au transport



- 14.1. Numéro ONU ou numéro d'identification
- |                 |      |
|-----------------|------|
| ADR-UN Number:  | 1950 |
| IATA-UN Number: | 1950 |
| IMDG-UN Number: | 1950 |
- 14.2. Désignation officielle de transport de l'ONU
- |                     |                       |
|---------------------|-----------------------|
| ADR-Shipping Name:  | AÉROSOLS inflammables |
| IATA-Shipping Name: | AÉROSOLS inflammables |
| IMDG-Shipping Name: | AÉROSOLS inflammables |
- 14.3. Classe(s) de danger pour le transport
- |  |           |
|--|-----------|
| ADR-Class:                                 | 2         |
| ADR - Numéro d'identification du danger :- |           |
| IATA-Class:                                | 2         |
| IATA-Label:                                | 2.1       |
| IMDG-Class:                                | 2         |
| IMDG-Classe:                               | 2 UN 1950 |
- 14.4. Groupe d'emballage
- |                     |   |
|---------------------|---|
| ADR-Packing Group:  | - |
| IATA-Packing group: | - |
| IMDG-Packing group: | - |
- 14.5. Dangers pour l'environnement
- |                               |             |
|-------------------------------|-------------|
| ADR-Polluant environnemental: | Non         |
| IMDG-Marine pollutant:        | Non         |
| IMDG-EmS:                     | F-D,<br>S-U |
- 14.6. Précautions particulières à prendre par l'utilisateur
- |  |                 |
|--|-----------------|
| ADR-Subsidiary hazards:                                      | See SP63        |
| ADR-S.P.:  | 190 327 344 625 |
| ADR-Catégorie de transport (Code de restriction en tunnels): | 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. Transport maritime en vrac conformément aux instruments de l'OMI
- N.A.
- |                    |     |
|--------------------|-----|
| Limited Quantity:  | 1 L |
| Exempted Quantity: | E0  |

### RUBRIQUE 15 — Informations relatives à la réglementation

- 15.1. Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement
- Dir. 98/24/CE (Risques dérivant d'agents chimiques pendant le travail)
  - Dir. 2000/39/CE (Limites d'exposition professionnelle)
  - Règlement (CE) n° 1907/2006 (REACH)

# Fiche de Données de Sécurité

## PETRONAS DURANCE COCKPIT CLEANER SHINE



Règlement (CE) n° 1272/2008 (CLP)  
Règlement (CE) n° 790/2009 (ATP 1 CLP) et (EU) n° 758/2013  
Règlement (EU) n° 2020/878  
Règlement (EU) n° 286/2011 (ATP 2 CLP)  
Règlement (EU) n° 618/2012 (ATP 3 CLP)  
Règlement (EU) n° 487/2013 (ATP 4 CLP)  
Règlement (EU) n° 944/2013 (ATP 5 CLP)  
Règlement (EU) n° 605/2014 (ATP 6 CLP)  
Règlement (EU) n° 2015/1221 (ATP 7 CLP)  
Règlement (EU) n° 2016/918 (ATP 8 CLP)  
Règlement (EU) n° 2016/1179 (ATP 9 CLP)  
Règlement (EU) n° 2017/776 (ATP 10 CLP)  
Règlement (EU) n° 2018/669 (ATP 11 CLP)  
Règlement (EU) n° 2018/1480 (ATP 13 CLP)  
Règlement (EU) n° 2019/521 (ATP 12 CLP)

Restrictions liées au produit ou aux substances contenues conformément à l'Annexe XVII de la Réglementation (CE) 1907/2006 (REACH) et ses modifications successives:

Restrictions liées au produit:

Restriction 3

Restriction 40

Restrictions liées aux substances contenues:

Restriction 70

Composés Organiques Volatils - COV = 94.26 %

Composés Organiques Volatils - COV = 942.63 g/Kg

Composés Organiques Volatils - COV = 575.00 g/l

Se référer aux normes suivantes lorsqu'elles sont applicables:

Directive 2012/18/UE (Seveso III)

Règlement (CE) no 648/2004 (détergents).

Dir. 2004/42/CE (Directive COV)

Dispositions relatives aux directive EU 2012/18 (Seveso III):

Catégorie Seveso III conformément à l'Annexe 1, partie 1

le produit appartient à la catégorie: P3a

### 15.2. Évaluation de la sécurité chimique

Aucune évaluation de la sécurité chimique n'a été effectuée pour le mélange

Substances pour lesquelles une évaluation de la sécurité chimique a été effectuée :

Aucune

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## RUBRIQUE 16 — Autres informations

Texte des phrases cités à la section 3:

H220 Gaz extrêmement inflammable.

H280 Contient un gaz sous pression; peut exploser sous l'effet de la chaleur.

H225 Liquide et vapeurs très inflammables.

H304 Peut être mortel en cas d'ingestion et de pénétration dans les voies respiratoires.

H315 Provoque une irritation cutanée.

H336 Peut provoquer somnolence ou vertiges.

H411 Toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

H319 Provoque une sévère irritation des yeux.

H290 Peut être corrosif pour les métaux.

H302 Nocif en cas d'ingestion.

H314 Provoque de graves brûlures de la peau et de graves lésions des yeux.

H318 Provoque de graves lésions des yeux.

H400 Très toxique pour les organismes aquatiques.

# Fiche de Données de Sécurité

## PETRONAS DURANCE COCKPIT CLEANER SHINE



H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme

**PETRONAS**

Classe de danger et catégorie de danger	Code	Description
Met. Corr. 1	2.16/1	Substance corrosive ou mélange corrosif pour les métaux, Catégorie 1
Flam. Gas 1A	2.2/1A	Gaz inflammable, Catégorie 1A
Aerosols 1	2.3/1	Aérosol, Catégorie 1
Press Gas (Liq.)	2.5/L	Gaz sous pression (Gaz liquéfié)
Flam. Liq. 2	2.6/2	Liquide inflammable, Catégorie 2
Acute Tox. 4	3.1/4/Oral	Toxicité aiguë (par voie orale), Catégorie 4
Asp. Tox. 1	3.10/1	Danger par aspiration, Catégorie 1
Skin Corr. 1B	3.2/1B	Corrosion cutanée, Catégorie 1B
Skin Irrit. 2	3.2/2	Irritation cutanée, Catégorie 2
Eye Dam. 1	3.3/1	Lésions oculaires graves, Catégorie 1
Eye Irrit. 2	3.3/2	Irritation oculaire, Catégorie 2
STOT SE 3	3.8/3	Toxicité spécifique pour certains organes cibles —Exposition unique STOT un., Catégorie 3
Aquatic Acute 1	4.1/A1	Danger aigu pour le milieu aquatique, Catégorie 1
Aquatic Chronic 1	4.1/C1	Danger chronique (à long terme) pour le milieu aquatique, Catégorie 1
Aquatic Chronic 2	4.1/C2	Danger chronique (à long terme) pour le milieu aquatique, Catégorie 2
Aquatic Chronic 3	4.1/C3	Danger chronique (à long terme) pour le milieu aquatique, Catégorie 3

Paragraphe modifiés de la révision précédente:

- RUBRIQUE 2 — Identification des dangers
- RUBRIQUE 3 — Composition/informations sur les composants
- RUBRIQUE 9 — Propriétés physiques et chimiques
- RUBRIQUE 11 — Informations toxicologiques
- RUBRIQUE 12 — Informations écologiques
- RUBRIQUE 14 — Informations relatives au transport
- RUBRIQUE 15 — Informations relatives à la réglementation

Classification et procédure utilisées pour établir la classification des mélanges conformément au règlement (CE) 1272/2008 [CLP]:

# Fiche de Données de Sécurité

## PETRONAS DURANCE COCKPIT CLEANER SHINE



Classification conformément au règlement (CE) n° 1272/2008	Méthode de classification <b>PETRONAS</b>
Aerosols 1, H222, H229	D'après les données d'essais
Skin Irrit. 2, H315	Méthode de calcul
Eye Irrit. 2, H319	Méthode de calcul
STOT SE 3, H336	Méthode de calcul
Aquatic Chronic 3, H412	Méthode de calcul

Ce document a été préparé par une personne compétente qui a été formée de façon appropriée. Principales sources bibliographiques:

ECDIN - Réseau d'information et Informations chimiques sur l'environnement - Centre de recherche commun, Commission de la Communauté Européenne

PROPRIÉTÉS DANGEREUSES DES MATÉRIAUX INDUSTRIELS DE SAX - Huitième Edition - Van Nostrand Reinold

Les informations contenues se basent sur nos connaissances à la date reportée ci-dessus. Elles se réfèrent uniquement au produit indiqué et ne constituent pas de garantie d'une qualité particulière. L'utilisateur doit s'assurer de la conformité et du caractère complet de ces informations par rapport à l'utilisation spécifique qu'il doit en faire.

Cette fiche annule et remplace toute édition précédente.

ADR:	Accord européen relatif au transport international des marchandises dangereuses par route.
CAS:	Service des résumés analytiques de chimie (division de la Société Chimique Américaine).
CLP:	Classification, Etiquetage, Emballage.
DNEL:	Niveau dérivé sans effet.
EINECS:	Inventaire européen des substances chimiques commerciales existantes.
ETA:	Estimation de la toxicité aiguë, ETA
ETAmélange:	Estimation de la toxicité aiguë (Mélanges)
GefStoffVO:	Ordonnance sur les substances dangereuses, Allemagne.
GHS:	Système général harmonisé de classification et d'étiquetage des produits chimiques.
IATA:	Association internationale du transport aérien.
IATA-DGR:	Réglementation pour le transport des marchandises dangereuses par l'"Association internationale du transport aérien" (IATA).
ICAO:	Organisation de l'aviation civile internationale.
ICAO-TI:	Instructions techniques par l'"Organisation de l'aviation civile internationale" (OACI).
IMDG:	Code maritime international des marchandises dangereuses.
INCI:	Nomenclature internationale des ingrédients cosmétiques.
KSt:	Coefficient d'explosion.
LC50:	Concentration létale pour 50 pour cent de la population testée.
LD50:	Dose létale pour 50 pour cent de la population testée.
NA:	Non applicable
PNEC:	Concentration prévue sans effets.
RID:	Règlement concernant le transport international ferroviaire des marchandises dangereuses.
STEL:	Limite d'exposition à court terme.
STOT:	Toxicité spécifique pour certains organes cibles.
TLV:	Valeur de seuil limite.

**Fiche de Données de Sécurité**  
**PETRONAS DURANCE COCKPIT CLEANER**  
**SHINE**

TWA: Moyenne pondérée dans le temps  
WGK: Classe allemande de danger pour l'eau.



**PETRONAS**

# 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:**

< 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 (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
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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 (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	
<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

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

<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.