

# Sicherheitsdatenblatt EXTERIOR PLASTIC TREATMENT



Sicherheitsdatenblatt vom 27/10/2021, Version 8

## ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

### 1.1. Produktidentifikator

Kennzeichnung der Mischung:

Handelsname: EXTERIOR PLASTIC TREATMENT

Handelscode: 31018

### 1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Empfohlene Verwendung:

Produkt zum Auffrischen von Stoßstangen

### 1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Lieferant:

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

Sachkundigen Person verantwortlich vom Sicherheitsdatenblatt:

arexons@arexons.it

### 1.4. Notrufnummer

Arexons S.p.A.

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

Austrian emergency telephone number : Vergiftungsinformationszentrale (+43 1 406 43 43)

Giftnotruf Berlin: +49 30 30686790

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

## ABSCHNITT 2: Mögliche Gefahren

### 2.1. Einstufung des Stoffs oder Gemischs

Kriterien der EG Verordnung 1272/2008 (CLP):

⚠ Gefahr, Aerosols 1, Extrem entzündbares Aerosol. Behälter steht unter Druck: Kann bei Erwärmung bersten.

⚠ Achtung, Skin Irrit. 2, Verursacht Hautreizungen.

⚠ Achtung, Eye Irrit. 2, Verursacht schwere Augenreizung.

⚠ Achtung, STOT SE 3, Kann Schläfrigkeit und Benommenheit verursachen.

Aquatic Chronic 3, Schädlich für Wasserorganismen, mit langfristiger Wirkung.

Für die menschlichen Gesundheit und die Umwelt gefährliche physisch-chemische Auswirkungen:

Keine weiteren Risiken

### 2.2. Kennzeichnungselemente

Gefahrenpiktogramme:



Gefahr

Gefahrenhinweise:

H222, H229 Extrem entzündbares Aerosol. Behälter steht unter Druck: Kann bei Erwärmung bersten.

H315 Verursacht Hautreizungen.

H319 Verursacht schwere Augenreizung.

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H336 Kann Schläfrigkeit und Benommenheit verursachen.  
H412 Schädlich für Wasserorganismen, mit langfristiger Wirkung.

### Sicherheitshinweise:

P101 Ist ärztlicher Rat erforderlich, Verpackung oder Kennzeichnungsetikett bereithalten.  
P102 Darf nicht in die Hände von Kindern gelangen.  
P103 Lesen Sie sämtliche Anweisungen aufmerksam und befolgen Sie diese.  
P210 Von Hitze, heißen Oberflächen, Funken, offenen Flammen sowie anderen Zündquellenarten fernhalten. Nicht rauchen.  
P211 Nicht gegen offene Flamme oder andere Zündquelle sprühen.  
P251 Nicht durchstechen oder verbrennen, auch nicht nach Gebrauch.  
P271 Nur im Freien oder in gut belüfteten Räumen verwenden.  
P405 Unter Verschluss aufbewahren.  
P410+P412 Vor Sonnenbestrahlung schützen und nicht Temperaturen über 50 °C/122 °F aussetzen.  
P501 Inhalt/Behälter laut Verordnung der Entsorgung zuführen.

### Spezielle Vorschriften:

EUH208 Enthält Citrus Oil Distilled. Kann allergische Reaktionen hervorrufen.

### Enthält

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
2-Propanol; Isopropylalkohol; Isopropanol

Besondere Regelungen gemäß Anhang XVII der REACH-Verordnung nachfolgenden Änderungen:

Keine

### 2.3. Sonstige Gefahren

Keine PBT-, vPvB-Stoffe oder endokrine Disruptoren in Konzentrationen  $\geq 0.1\%$ :

### Weitere Risiken:

Keine weiteren Risiken

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## ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

### 3.1. Stoffe

N.A.

### 3.2. Gemische

Gefährliche Bestandteile gemäß der CLP-Verordnung und dazugehörige Einstufung:

$\geq 70\%$  -  $< 80\%$  Kohlenwasserstoffe, C3-4; Gase aus der Erdölverarbeitung

REACH No.: 01-2119486557-22, Index-Nummer: 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

$\geq 2\%$  -  $< 3\%$  2-Propanol; Isopropylalkohol; Isopropanol

REACH No.: 01-2119457558-25, Index-Nummer: 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

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>= 0.1% - < 0.25% Citrus Oil Distilled  
CAS: 68647-72-3, EC: 614-678-6  
⚠ 2.6/3 Flam. Liq. 3 H226  
⚠ 3.10/1 Asp. Tox. 1 H304  
⚠ 3.2/2 Skin Irrit. 2 H315  
⚠ 3.4.2/1 Skin Sens. 1 H317  
⚠ 3.3/2 Eye Irrit. 2 H319  
⚠ 4.1/A1 Aquatic Acute 1 H400  
⚠ 4.1/C1 Aquatic Chronic 1 H410

>= 0.02% - < 0.05% benzene,1,1'-oxybis  
CAS: 101-84-8  
⚠ 3.3/2 Eye Irrit. 2 H319  
⚠ 4.1/C1 Aquatic Chronic 1 H410

\*DECLK (CLP): Stoff eingestuft gemäß Anmerkung K im Anhang VI der Verordnung 1272/2008/EG. Die harmonisierte Einstufung als karzinogen oder keimzellmutagen wird vorgenommen, es sei denn, es kann nachgewiesen werden, dass der Stoff weniger als 0,1 Gewichtsprozent 1,3-Butadien (Einecs-Nr. 203-450-8) enthält; in diesem Fall ist auch für diese Gefahrenklassen eine Einstufung gemäß Titel II dieser Verordnung vorzunehmen. Wird der Stoff nicht als karzinogen oder keimzellmutagen eingestuft, so sind zumindest die Sicherheitshinweise (P102-)P210-P403 anzuwenden.

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### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

#### 4.1. Beschreibung der Erste-Hilfe-Maßnahmen

Nach Hautkontakt:

Verunreinigte Kleidung sofort ausziehen.

Körperbereiche, die mit dem Produkt in Kontakt getreten sind, bzw. bei denen dieser Verdacht besteht, müssen sofort mit viel fließendem Wasser und möglichst mit Seife gewaschen werden. Den Körper vollständig waschen (Dusche oder Bad).

Die kontaminierten Kleidungsstücke sofort ablegen und sie auf sichere Weise entsorgen.

Im Falle von Hautkontakt sofort mit reichlich Wasser und Seife waschen.

Nach Augenkontakt:

Im Falle von Augenkontakt die Augen über einen ausreichenden Zeitraum mit Wasser spülen und die Augenlider offen halten; sofort einen Augenarzt konsultieren.

Das unverletzte Auge schützen.

Nach Verschlucken:

Auf keinen Fall Erbrechen herbeiführen. SOFORT ARZT ZUZIEHEN.

Nach Einatmen:

Den Verletzten ins Freie bringen, ihn ausruhen lassen und warm halten.

#### 4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Keine

#### 4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

Im Falle eines Unfalls bzw. bei Unwohlsein sofort einen Arzt konsultieren (wenn möglich, die Bedienungsanleitung bzw. das Sicherheitsdatenblatt vorzeigen).

Behandlung:

Keine

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### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

#### 5.1. Löschmittel

Geeignete Löschmittel:

Mit Kohlendioxid.

Mit Pulver.

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- Schaum
- Wasserdampf.
- Löschmittel nicht empfohlen:
- Keine direkten Wasserstrahlen benutzen
- 5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren
  - Die Explosions- bzw. Verbrennungsgase nicht einatmen.
  - Durch die Verbrennung entsteht ein dichter Rauch.
- 5.3. Hinweise für die Brandbekämpfung
  - Geeignete Atemgeräte verwenden.
  - Das kontaminierte Löschwasser getrennt auffangen. Nicht in der Abwasserleitung entsorgen.
  - Wenn im Rahmen der Sicherheit möglich, die unbeschädigten Behälter aus der unmittelbaren Gefahrenzone entfernen.

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### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- 6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren
  - Die persönliche Schutzausrüstung tragen.
  - Alle Entzündungsquellen entfernen.
  - Die Personen an einen sicheren Ort bringen.
  - Die in Punkt 7 und 8 aufgeführten Schutzmaßnahmen beachten.
- 6.2. Umweltschutzmaßnahmen
  - Das Eindringen in den Boden/Unterboden verhindern. Das Abfließen in das Grundwasser oder in die Kanalisation verhindern.
  - Das kontaminierte Waschwasser auffangen und entsorgen.
  - Bei Austritt von Gas oder bei Eintritt in Wasserläufe, den Boden oder die Kanalisation die zuständigen Behörden informieren.
  - Geeignetes Material zum Auffangen: absorbierende oder organische Materialien, Sand
- 6.3. Methoden und Material für Rückhaltung und Reinigung
  - Mit reichlich Wasser waschen.
- 6.4. Verweis auf andere Abschnitte
  - Siehe auch die Abschnitte 8 und 13

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### ABSCHNITT 7: Handhabung und Lagerung

- 7.1. Schutzmaßnahmen zur sicheren Handhabung
  - Haut- und Augenkontakt sowie das Einatmen von Dämpfen vermeiden.
  - Keine leeren Behälter verwenden, bevor diese nicht gereinigt wurden.
  - Vor dem Umfüllen sicherstellen, dass sich in den Behältern keine Reste inkompatibler Stoffe befinden.
  - Für die empfohlenen Schutzausrüstungen wird auf Abschnitt 8 verwiesen.

Kontaminierte Kleidungsstücke müssen vor dem Eintritt in Speiseräume gewechselt werden.  
Während der Arbeit nicht essen oder trinken.
- 7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten
  - Unter 50 °C lagern. Vor offenen Flammen und Wärmequellen fern halten. Keiner direkten Sonneneinstrahlung aussetzen.
  - Vor offenen Flammen, Zündfunken und Wärmequellen fern halten. Keiner direkten Sonneneinstrahlung aussetzen.
  - Lebensmittel, Getränke und Tiernahrung fern halten.
  - Kein spezifischer.
  - Angaben zu den Lagerräumen:  
Kühl und ausreichend belüftet.
- 7.3. Spezifische Endanwendungen
  - Kein besonderer Verwendungszweck

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### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

#### 8.1. Zu überwachende Parameter

Kohlenwasserstoffe, C3-4; Gase aus der Erdölverarbeitung - CAS: 68476-40-4

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

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

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

EU

2-Propanol; Isopropylalkohol; 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 - Anmerkungen: A4, BEI - Eye and URT irr, CNS impair

benzene,1,1'-oxybis - CAS: 101-84-8

EU - TWA(8h): 7 mg/m<sup>3</sup>, 1 ppm - STEL: 14 mg/m<sup>3</sup>, 2 ppm

ACGIH - TWA(8h): 1 ppm - STEL: 2 ppm - Anmerkungen: (V) - URT and eye irr, nausea

#### DNEL-Expositionsgrenzwerte

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Arbeitnehmer Gewerbe: 300 mg/kg - Exposition: Mensch - dermal - Häufigkeit: Langfristig, systemische Auswirkungen

Arbeitnehmer Gewerbe: 508 ppm - Exposition: Mensch - Inhalation - Häufigkeit: Kurzfristig, systemische Auswirkungen

Verbraucher: 149 mg/kg - Exposition: Mensch - dermal - Häufigkeit: Langfristig, systemische Auswirkungen

Verbraucher: 109 ppm - Exposition: Mensch - Inhalation - Häufigkeit: Langfristig, systemische Auswirkungen

Verbraucher: 149 mg/kg - Exposition: Mensch - oral - Häufigkeit: Langfristig, systemische Auswirkungen

2-Propanol; Isopropylalkohol; Isopropanol - CAS: 67-63-0

Arbeitnehmer Gewerbe: 888 mg/kg - Verbraucher: 319 mg/kg - Exposition: Mensch - dermal - Häufigkeit: Langfristig (wiederholt)

Arbeitnehmer Gewerbe: 500 mg/m<sup>3</sup> - Verbraucher: 89 mg/m<sup>3</sup> - Exposition: Mensch - Inhalation - Häufigkeit: Langfristig (wiederholt)

Verbraucher: 26 mg/kg - Exposition: Mensch - oral - Häufigkeit: Langfristig (wiederholt)

#### PNEC-Expositionsgrenzwerte

2-Propanol; Isopropylalkohol; Isopropanol - CAS: 67-63-0

Ziel: Süßwasser - Wert: 140.9 mg/l

Ziel: Süßwasser - Wert: 140.9 mg/l

Ziel: Flußsediment - Wert: 552 mg/l

Ziel: Boden (Landwirtschaft) - Wert: 28 mg/kg

Ziel: Mikroorganismen in Kläranlagen - Wert: 2251 mg/l

#### 8.2. Begrenzung und Überwachung der Exposition

##### Augenschutz:

Die Sicherheitsvisiere schließen, keine Kontaktlinsen verwenden.

##### Hautschutz:

Bei normaler Verwendung sind besondere Vorsichtsmaßnahmen nicht notwendig.

##### Handschutz:

Schutzhandschuhe tragen, die einen vollständigen Schutz garantieren, z.B. aus PVC, Neopren oder Gummi.

##### Atemschutz:

Einen angemessenen Atemschutz verwenden.

##### Wärmerisiken:

Keine

##### Kontrollen der Umweltexposition:

Keine

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Geeignete technische Massnahmen:  
Keine

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

| Eigenschaft   | Wert             | Methode: | Anmerkungen |
|---|------------------|----------|-------------|
| Aggregatzustand:  | flüssig          | --       | --          |
| Farbe:  | N.A.             | --       | --          |
| Geruch:   | charakteristisch | --       | --          |
| Schmelzpunkt/<br>Gefrierpunkt:                              | N.A.             | --       | --          |
| Siedepunkt oder<br>Siedebeginn und<br>Siedebereich:         | N.A.             | --       | --          |
| Entzündbarkeit:   | N.A.             | --       | --          |
| Untere und obere<br>Explosionsgrenze:                       | N.A.             | --       | --          |
| Flammpunkt:   | N.A.             | --       | --          |
| Selbstentzündungstemperatur:                                | N.A.             | --       | --          |
| Zerfalltemperatur:  | N.A.             | --       | --          |
| pH:   | N.A.             | --       | --          |
| Kinematische Viskosität:                                    | N.A.             | --       | --          |
| Wasserlöslichkeit:  | N.A.             | --       | --          |
| Löslichkeit in Öl:  | N.A.             | --       | --          |
| Verteilungskoeffizient n-<br>Oktanol/Wasser (log-<br>Wert): | N.A.             | --       | --          |
| Dampfdruck:   | N.A.             | --       | --          |
| Dichte und/oder relative<br>Dichte:                         | N.A.             | --       | --          |
| Relative Dampfdichte:                                       | N.A.             | --       | --          |
| Partikeleigenschaften:                                      |                  |          |             |
| Teilchengröße:  | N.A.             | --       | --          |

9.2. Sonstige Angaben

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Keine weiteren relevanten Informationen

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### ABSCHNITT 10: Stabilität und Reaktivität

- 10.1. Reaktivität  
Stabil unter Normalbedingungen
- 10.2. Chemische Stabilität  
Stabil unter Normalbedingungen
- 10.3. Möglichkeit gefährlicher Reaktionen  
Keine
- 10.4. Zu vermeidende Bedingungen  
Unter normalen Umständen stabil.
- 10.5. Unverträgliche Materialien  
Kontakt mit brandfördernden Materialien vermeiden. Das Produkt könnte in Brand geraten.
- 10.6. Gefährliche Zersetzungsprodukte  
Keine.

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### ABSCHNITT 11: Toxikologische Angaben

11.1. Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Toxikologische Informationen zum Produkt:

EXTERIOR PLASTIC TREATMENT SPRAY ML 600

- a) akute Toxizität  
Nicht klassifiziert  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- b) Ätz-/Reizwirkung auf die Haut  
Das Produkt ist eingestuft: Skin Irrit. 2 H315
- c) schwere Augenschädigung/-reizung  
Das Produkt ist eingestuft: Eye Irrit. 2 H319
- d) Sensibilisierung der Atemwege/Haut  
Nicht klassifiziert  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- e) Keimzell-Mutagenität  
Nicht klassifiziert  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- f) Karzinogenität  
Nicht klassifiziert  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- g) Reproduktionstoxizität  
Nicht klassifiziert  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- h) spezifische Zielorgan-Toxizität bei einmaliger Exposition  
Das Produkt ist eingestuft: STOT SE 3 H336
- i) spezifische Zielorgan-Toxizität bei wiederholter Exposition  
Nicht klassifiziert  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- j) Aspirationsgefahr  
Nicht klassifiziert  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Toxikologische Informationen zu den Hauptbestandteilen des Produkts:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

- a) akute Toxizität:
    - Test: LC50 - Weg: Einatmen - Spezies: Ratte > 23.3 mg/l - Laufzeit: 4h
    - Test: LD50 - Weg: Oral - Spezies: Ratte > 8 ml/kg
    - Test: LD50 - Weg: Haut - Spezies: Kaninchen 2800-3100 mg/kg
- 2-Propanol; Isopropylalkohol; Isopropanol - CAS: 67-63-0



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- a) akute Toxizität:  
Test: LD50 - Weg: Oral - Spezies: Ratte > 5000 mg/kg  
Test: LD50 - Weg: Haut - Spezies: Kaninchen > 5000 mg/kg  
Test: LC50 - Weg: Einatmen - Spezies: Ratte > 10000 ppm - Laufzeit: 6h

- 11.2. Angaben über sonstige Gefahren  
Endokrinschädliche Eigenschaften:  
Keine endokrinen Disruptoren in Konzentrationen  $\geq 0.1$  %.

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### ABSCHNITT 12: Umweltbezogene Angaben

- 12.1. Toxizität  
Im Einklang mit der GLP verwenden, nicht herumliegen lassen.  
Kohlenwasserstoffe, C3-4; Gase aus der Erdölverarbeitung - CAS: 68476-40-4  
a) Akute aquatische Toxizität:  
Endpunkt: LC50 - Spezies: Daphnia = 14.22 mg/l - Dauer / h: 48  
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics  
b) Chronische aquatische Toxizität:  
Endpunkt: EC50 - Spezies: Algen > 10-30 mg/l - Dauer / h: 72  
Endpunkt: LC50 - Spezies: Fische > 13.4 mg/l - Dauer / h: 96  
2-Propanol; Isopropylalkohol; Isopropanol - CAS: 67-63-0  
a) Akute aquatische Toxizität:  
Endpunkt: LC50 - Spezies: Fische 4200 mg/l - Dauer / h: 96  
Endpunkt: LC50 - Spezies: Fische > 100 mg/l - Dauer / h: 48  
Endpunkt: EC50 - Spezies: Daphnia > 100 mg/l - Dauer / h: 48  
Endpunkt: EC50 - Spezies: Algen > 100 mg/l - Dauer / h: 72
- 12.2. Persistenz und Abbaubarkeit  
Keine  
2-Propanol; Isopropylalkohol; Isopropanol - CAS: 67-63-0  
Biologische Abbaubarkeit: Schnell abbaubar - Dauer / h: .10gg - %: 70
- 12.3. Bioakkumulationspotenzial  
N.A.
- 12.4. Mobilität im Boden  
N.A.
- 12.5. Ergebnisse der PBT- und vPvB-Beurteilung  
vPvB-Stoffe: Keine - PBT-Stoffe: Keine
- 12.6. Endokrinschädliche Eigenschaften  
Keine endokrinen Disruptoren in Konzentrationen  $\geq 0.1$  %.
- 12.7. Andere schädliche Wirkungen  
Keine

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### ABSCHNITT 13: Hinweise zur Entsorgung

- 13.1. Verfahren der Abfallbehandlung  
Nach Möglichkeit wiederverwerten. Behördlich zugelassenen Deponien oder Verbrennungsanlagen zuführen. Entsprechend den geltenden örtlichen und nationalen Bestimmungen vorgehen.

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### ABSCHNITT 14: Angaben zum Transport



- 14.1. UN-Nummer oder ID-Nummer  
ADR-UN Number: 1950

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|  |                               |       |
|--|-------------------------------|-------|
| IATA-UN Number:  | 1950                          |       |
| IMDG-UN Number:  | 1950                          |       |
| 14.2. Ordnungsgemäße UN-Versandbezeichnung                       |                               |       |
| ADR-Shipping Name:   | DRUCKGASPACKUNGEN, entzündbar |       |
| IATA-Shipping Name:  | DRUCKGASPACKUNGEN, entzündbar |       |
| IMDG-Shipping Name:  | DRUCKGASPACKUNGEN, entzündbar |       |
| 14.3. Transportgefahrenklassen                                   |                               |       |
| ADR-Class:   | 2                             |       |
| ADR - Gefahrennummer:  | -                             |       |
| IATA-Class:  | 2                             |       |
| IATA-Label:  | 2.1                           |       |
| IMDG-Class:  | 2                             |       |
| IMDG-Klasse:   | 2                             |       |
| 14.4. Verpackungsgruppe  |                               |       |
| ADR-Packing Group:   | -                             |       |
| IATA-Packing group:  | -                             |       |
| IMDG-Packing group:  | -                             |       |
| 14.5. Umweltgefahren   |                               |       |
| ADR-Umweltbelastung:   | Nein                          |       |
| IMDG-Marine pollutant:   | Nein                          |       |
| IMDG-EmS:  | F-D,<br>S-U                   |       |
| 14.6. Besondere Vorsichtsmaßnahmen für den Verwender             |                               |       |
| ADR-Subsidiary hazards:  | See SP63                      |       |
| ADR-S.P.:  | 190 327 344 625               |       |
| ADR-Beförderungskategorie (Tunnelbeschränkungscode):             |                               | 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. Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten |                               |       |
| N.A.   |                               |       |
| Limited Quantity:  | 1 L                           |       |
| Exempted Quantity:   | E0                            |       |

### ABSCHNITT 15: Rechtsvorschriften

15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder

- RL 98/24/EG (Schutz von Gesundheit und Sicherheit der Arbeitnehmer vor der Gefährdung durch chemische Arbeitsstoffe bei der Arbeit)
- RL 2000/39/EG (Arbeitsplatz-Richtgrenzwerte)
- Verordnung (EG) Nr. 1907/2006 (REACH)
- Verordnung (EG) Nr. 1272/2008 (CLP)
- Verordnung (EG) Nr. 790/2009 (1. ATP CLP) und (EU) Nr. 758/2013
- Verordnung (EU) Nr. 2020/878
- Verordnung (EU) Nr. 286/2011 (2. ATP CLP)
- Verordnung (EU) Nr. 618/2012 (3. ATP CLP)
- Verordnung (EU) Nr. 487/2013 (4. ATP CLP)
- Verordnung (EU) Nr. 944/2013 (5. ATP CLP)
- Verordnung (EU) Nr. 605/2014 (6. ATP CLP)
- Verordnung (EU) Nr. 2015/1221 (7. ATP CLP)
- Verordnung (EU) Nr. 2016/918 (8. ATP CLP)

# Sicherheitsdatenblatt

## EXTERIOR PLASTIC TREATMENT



Verordnung (EU) Nr. 2016/1179 (9. ATP CLP)  
Verordnung (EU) Nr. 2017/776 (10. ATP CLP)  
Verordnung (EU) Nr. 2018/669 (11. ATP CLP)  
Verordnung (EU) Nr. 2018/1480 (13. ATP CLP)  
Verordnung (EU) Nr. 2019/521 (12. ATP CLP)  
Verordnung (EU) Nr. 2020/217 (14. ATP CLP)  
Verordnung (EU) Nr. 2020/1182 (15. ATP CLP)  
Verordnung (EU) Nr. 2021/643 (16. ATP CLP)

Beschränkungen zum Produkt oder zu den Inhaltsstoffen gemäß Anhang XVII der Verordnung (EG) 1907/2006 (REACH) und nachfolgenden Änderungen:

Beschränkungen zum Produkt:

Beschränkung 3

Beschränkung 40

Beschränkungen zu den Inhaltsstoffen gemäß:

Beschränkung 75

Flüchtige Organische Verbindung - FOV = 94.02 %

Flüchtige Organische Verbindung - FOV = 940.15 g/Kg

Flüchtige Organische Verbindung - FOV = 571.61 g/l

Wo möglich auf die folgenden Normen Bezug nehmen:

Richtlinie EU 2012/18 (Seveso III)

Verordnung (EG) Nr. 648/2004 (Detergenzien).

RL 2004/42/EG (FOV Richtlinie)

Anordnungen zu der Richtlinie EU 2012/18 (Seveso III):

Seveso III Kategorie gemäß dem Anhang 1, Teil 1

Das Produkt gehört zur Kategorie: P3a

### 15.2. Stoffsicherheitsbeurteilung

Keine Stoffsicherheitsbeurteilung wurde durchgeführt für das Gemisch  
Stoffe, für die eine Stoffsicherheitsbeurteilung durchgeführt worden ist:

Keine

## ABSCHNITT 16: Sonstige Angaben

Text der verwendeten Sätze im Absatz 3:

H220 Extrem entzündbares Gas.

H280 Enthält Gas unter Druck; kann bei Erwärmung explodieren.

H225 Flüssigkeit und Dampf leicht entzündbar.

H304 Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.

H315 Verursacht Hautreizungen.

H336 Kann Schläfrigkeit und Benommenheit verursachen.

H411 Giftig für Wasserorganismen, mit langfristiger Wirkung.

EUH066 Wiederholter Kontakt kann zu spröder oder rissiger Haut führen.

H319 Verursacht schwere Augenreizung.

H226 Flüssigkeit und Dampf entzündbar.

H317 Kann allergische Hautreaktionen verursachen.

H400 Sehr giftig für Wasserorganismen.

H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.

| Gefahrenklasse und Gefahrenkategorie | Code   | Beschreibung                   |
|--------------------------------------|--------|--------------------------------|
| Flam. Gas 1A                         | 2.2/1A | Entzündbares Gas, Kategorie 1A |
| Aerosols 1                           | 2.3/1  | Aerosole, Kategorie 1          |

## Sicherheitsdatenblatt EXTERIOR PLASTIC TREATMENT



|                   |         |   |
|-------------------|---------|---|
| Press Gas (Liq.)  | 2.5/L   | Gase unter Druck (verflüssigtes Gas)                                |
| Flam. Liq. 2      | 2.6/2   | Entzündbare Flüssigkeiten, Kategorie 2                              |
| Flam. Liq. 3      | 2.6/3   | Entzündbare Flüssigkeiten, Kategorie 3                              |
| Asp. Tox. 1       | 3.10/1  | Aspirationsgefahr, Kategorie 1                                      |
| Skin Irrit. 2     | 3.2/2   | Reizung der Haut, Kategorie 2                                       |
| Eye Irrit. 2      | 3.3/2   | Reizung der Augen, Kategorie 2                                      |
| Skin Sens. 1      | 3.4.2/1 | Sensibilisierung der Haut, Kategorie 1                              |
| STOT SE 3         | 3.8/3   | Spezifische Zielorgan-Toxizität (einmalige Exposition), Kategorie 3 |
| Aquatic Acute 1   | 4.1/A1  | Akut gewässergefährdend, Kategorie 1                                |
| Aquatic Chronic 1 | 4.1/C1  | Chronisch (langfristig) gewässergefährdend, Kategorie 1             |
| Aquatic Chronic 2 | 4.1/C2  | Chronisch (langfristig) gewässergefährdend, Kategorie 2             |
| Aquatic Chronic 3 | 4.1/C3  | Chronisch (langfristig) gewässergefährdend, Kategorie 3             |

Dieses Sicherheitsdatenblatt wurde vollständig gemäß Verordnung 2020/878 angepasst. Einstufung und Verfahren, das zum Ableiten der Einstufung von Gemischen gemäß Verordnung (EG) 1272/2008 [CLP] verwendet wurde:

| Einstufung gemäß Verordnung (EG) Nr. 1272/2008 | Einstufungsverfahren        |
|--|-----------------------------|
| Aerosols 1, H222, H229                         | auf der Basis von Prüfdaten |
| Skin Irrit. 2, H315                            | Berechnungsmethode          |
| Eye Irrit. 2, H319                             | Berechnungsmethode          |
| STOT SE 3, H336                                | Berechnungsmethode          |
| Aquatic Chronic 3, H412                        | Berechnungsmethode          |

Diese Unterlagen wurden von einem Fachmann mit entsprechender Ausbildung abgefasst.  
Hauptsächliche Literatur:

ECDIN - Daten- und Informationsnetz über umweltrelevante Chemikalien - Vereinigtes  
Forschungszentrum, Kommission der Europäischen Gemeinschaft  
SAX's GEFÄHRLICHE EIGENSCHAFTEN VON INDUSTRIELLEN SUBSTANZEN - Achte  
Auflage - Van Nostrand Reinold

Die vorstehenden Angaben stützen sich auf den heutigen Stand unserer Kenntnisse. Sie gelten nur für das angegebene Produkt und stellen keine Zusicherung von Eigenschaften dar.  
Es obliegt dem Anwender die Zuständigkeit und die Vollständigkeit dieser Angaben für seine spezifische Anwendung zu kontrollieren.  
Dieses Datenblatt ersetzt alle früheren Ausgaben.

## Sicherheitsdatenblatt

### EXTERIOR PLASTIC TREATMENT



|             |  |
|-------------|--|
| ADR:        | Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße           |
| ATE:        | Schätzung Akuter Toxizität   |
| ATEGemisch: | Schätzwert der akuten Toxizität (Gemische)   |
| CAS:        | Chemical Abstracts Service (Abteilung der American Chemical Society)                                       |
| CLP:        | Einstufung, Verpackung und Kennzeichnung   |
| DNEL:       | Abgeleitetes Null-Effekt-Niveau (DNEL)   |
| EINECS:     | Europäisches Verzeichnis der auf dem Markt vorhandenen chemischen Stoffe                                   |
| GefStoffVO: | Gefahrstoffverordnung  |
| GHS:        | Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien                              |
| IATA:       | Internationale Flug-Transport-Vereinigung (IATA)   |
| IATA-DGR:   | Vorschriften über die Beförderung gefährlicher Güter der Internationalen Flug-Transport-Vereinigung (IATA) |
| ICAO:       | Internationale Zivilluftfahrtorganisation (ICAO)   |
| ICAO-TI:    | Technische Anleitungen der Internationalen Zivilluftfahrtorganisation (ICAO)                               |
| IMDG:       | Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffsverkehr (IMDG-Code)                              |
| INCI:       | Internationale Nomenklatur für kosmetische Inhaltsstoffe (INCI)  |
| KSt:        | Explosions-Koeffizient   |
| LC50:       | Letale Konzentration für 50 Prozent der Testpopulation   |
| LD50:       | Letale Dosis für 50 Prozent der Testpopulation   |
| NA:         | Nicht anwendbar  |
| PNEC:       | Abgeschätzte Nicht-Effekt-Konzentration (PNEC-Wert)  |
| RID:        | Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr                             |
| STEL:       | Grenzwert für Kurzzeitexposition   |
| STOT:       | Zielorgan-Toxizität  |
| TLV:        | Arbeitsplatzgrenzwert  |
| TWA:        | Zeit gemittelte  |
| WGK:        | Wassergefährdungsklasse  |

# Exposure Scenario, 17/07/2019

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

## Table of contents

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

## 1. ES 1 Use at industrial site

### 1.1 TITLE SECTION

|                        |                        |
|------------------------|------------------------|
| Exposure Scenario name | Use as a propellant    |
| Date - Version         | 17/07/2019 - 1.0       |
| Life Cycle Stage       | Use at industrial site |
| Main user group        | Industrial uses        |
| Sector(s) of use       | Industrial uses (SU3)  |

#### Environment Contributing Scenario

|                |      |
|----------------|------|
| CS1 Covered by | ERC4 |
|----------------|------|

#### Worker Contributing Scenario

|                |   |
|----------------|---|
| CS2 Propellant | PROC1 - PROC2 - PROC3 - PROC8b - PROC9 - PROC12 |
|----------------|---|

## 1.2 Conditions of use affecting exposure

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

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

### 1.2. CS2: Worker Contributing Scenario: Propellant (PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12)

|                    |  |
|--------------------|--|
| Process Categories | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) - Use of blowing agents in manufacture of foam (PROC1, PROC2, PROC3, PROC8b, PROC9, PROC12) |
|--------------------|--|

#### *Product (article) characteristics*

##### Physical form of product:

Liquid

##### Vapour pressure:

> 10 kPa

##### Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

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

##### Duration:

Covers daily exposures up to 8 hours

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

##### Technical and organisational measures

- Keep drains in watertight containers while awaiting dismantling or subsequent recycling
- Use in contained systems
- Ensure operatives are trained to minimise exposures.
- Ensure that direct skin contact is avoided.
- Clear transfer lines prior to de-coupling.
- Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
- Drain down and flush system prior to equipment break-in or maintenance.

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

**Personal protection**

Wear suitable respiratory protection.

***Other conditions affecting worker exposure***

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

**1.3 Exposure estimation and reference to its source**

N/A

**1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES****Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



# Exposure Scenario, 17/07/2019

## Substance identity

|                      |   |
|----------------------|---|
| <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 |
|----------------|------|

#### Worker Contributing Scenario

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

## 1.2 Conditions of use affecting exposure

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

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

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

##### Amounts used:

Annual site tonnage 400 t(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 |
|----------------|---------------|

### 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 |
|----------------|------|

#### Worker Contributing Scenario

|                |   |
|----------------|---|
| CS2 Industrial | PROC1 - PROC2 - PROC3 - PROC4 -<br>PROC7 - PROC8a - PROC8b - PROC10 -<br>PROC13 |
|----------------|---|

### 3.2 Conditions of use affecting exposure

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

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

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

##### Amounts used:

Annual site tonnage 74 t(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) |
|---------------------------|--|

*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 |
|----------------|---------------|

### Worker Contributing Scenario

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

## 4.2 Conditions of use affecting exposure

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

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

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

#### Amounts used:

Annual site tonnage 0.012 t(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) |
|---------------------------|---|

#### *Product (article) characteristics*

##### **Physical form of product:**

Liquid

##### **Vapour pressure:**

< 20 kPa

##### **Concentration of substance in product:**

Covers percentage substance in the product up to 100 %.

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

##### **Duration:**

Covers daily exposures up to 8 hours

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

##### **Technical and organisational measures**

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

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

##### **Personal protection**

Wear suitable gloves tested to EN374.

#### *Other conditions affecting worker exposure*

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

**Ventilation rate:** Provide forced ventilation

### 4.3 Exposure estimation and reference to its source

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

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

### 4.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

##### **Guidance to check compliance with the exposure scenario:**

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

# Exposure Scenario, 16/07/2019

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

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1. **ES 1** Use at industrial site
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6. **ES 6** Consumer use; Various products (PC9b, PC9a, PC1, PC4, PC8)
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><br>Liquid, vapour pressure 0,5 - 10 kPa at STP   |  |
| <b>Concentration of substance in product:</b><br>Covers percentage substance in the product up to 100 %.  |  |
| <b>Amount used, frequency and duration of use/exposure</b>  |  |
| <b>Duration:</b><br>Covers daily exposures up to 8 hours  |  |
| <b>Technical and organisational conditions and measures</b>   |  |
| <b>Technical and organisational measures</b><br>Keep drains in watertight containers while awaiting dismantling or subsequent recycling<br>Ensure that direct skin contact is avoided.<br>Provide a good standard of controlled ventilation (10 to 15 air changes per hour).<br>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><br>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 |
|---------------------------|------|

#### Worker Contributing Scenario

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

## 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) |
|----------------------------------|--|

### 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) |
|--------------------|---|

#### *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 |
|----------------------------------|---------------|

#### Worker Contributing Scenario

|  |  |
|--|--|
| <b>CS2 General use from professional operators</b> | PROC5 - PROC1 - PROC2 - PROC3 - PROC4 - PROC8a - PROC8b - PROC10 - PROC11 - PROC13 - PROC15 - PROC19 |
|--|--|

### 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) |
|---|---|

#### 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) |
|---------------------------|---|

#### *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

|                               |  |
|-------------------------------|--|
| <b>Exposure Scenario name</b> | Use in cleaning agents                 |
| <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

**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 |
|----------------------------------|-------|

#### Worker Contributing Scenario

|  |  |
|--|--|
| <b>CS2 General use from professional operators</b> | PROC1 - PROC2 - PROC8a - PROC8b - PROC11 |
|--|--|

### 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) |
|---|--|

#### 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) |
|---------------------------|--|

#### *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 |
|----------------------------------|---------------|

### Consumer Contributing Scenario

|                            |  |
|----------------------------|--|
| <b>CS2 Use in coatings</b> | PC9b - PC9a - PC1 - PC4 - PC8 - PC15 - PC18 - PC24 - PC31 - PC34 |
|----------------------------|--|

## 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) |
|---|---|

### 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) |
|---------------------------|---|

### *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 |
|----------------------------------|---------------|

### Consumer Contributing Scenario

|                              |   |
|------------------------------|---|
| <b>CS2 Detergent liquids</b> | PC9a - PC3 - PC4 - PC8 - PC24 - PC35 - PC38 |
|------------------------------|---|

## 7.2 Conditions of use affecting exposure

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

|   |   |
|---|---|
| <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) |
|---|---|

### 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) |
|---------------------------|---|

### *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 |
|---------------------------|------|

#### Consumer Contributing Scenario

|  |      |
|--|------|
| CS2 De-icing and anti-icing applications | PC24 |
|--|------|

## 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) |
|----------------------------------|--|

### 8.2. CS2: Consumer Contributing Scenario: De-icing and anti-icing applications (PC24)

|                    |  |
|--------------------|--|
| Product Categories | Lubricants, greases, release products (PC24) |
|--------------------|--|

#### *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.