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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name or designation of the mixture** FLAW DETECTOR DEVELOPER 3

**Registration number** -

**Synonyms** None.

**Product code** UDS000718AE

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Welding Products

**Uses advised against** None known.

### 1.3. Details of the supplier of the safety data sheet

**Company name** CRC Industries UK Ltd.

**Address**  
Wyls Road  
Castlefield Industrial Estate  
TA6 4DD Bridgwater Somerset  
United Kingdom

**Telephone** +44 1278 727200

**Fax** +44 1278 425644

**E-mail** hse.uk@crcind.com

**Website** www.crcind.com

**Company name** CRC Industries Europe bv

**Address**  
Touwslagerstraat 1  
9240 Zele  
Belgium

**Telephone** +32(0)52/45.60.11

**Fax** +32(0)52/45.00.34

**E-mail** hse@crcind.com

**Website** www.crcind.com

**1.4. Emergency telephone number** Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)

**Austria National Poisons Information Centre** +431 406 4343 (Available 24 hours a day.)

**Belgium National Poisons Control Center** 070 245 245 (Available 24 hours a day.)

**Bulgaria National Toxicological Information Centre** +359 2 9154233 (Available 24 hours a day.)

**Czech Republic National Poisons Information Centre** +420 224 919 293, or +420 224 915 402 (Hours of operation not provided.)

**Denmark National Poisons Control Center** +45 82 12 12 12 (Available 24 hours a day.)

**Estonia National Poisons Information Centre** 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays))

|                                                                         |                                                                                                                 |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Finland National Poison Information Center</b>                       | (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day.)                                       |
| <b>France National Poisons Control Center</b>                           | ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day.)                                        |
| <b>Hungary National Emergency Phone Number</b>                          | 36 80 20 11 99 (Available 24 hours a day.)                                                                      |
| <b>Lithuania Neatidėliotina informacija apsinuodijus</b>                | +370 5 236 20 52 or +37068753378 (Hours of operation not provided.)                                             |
| <b>Malta Accident and Emergency Department</b>                          | 2545 4030 (Hours of operation not provided.)                                                                    |
| <b>Netherlands National Poisons Information Center (NVIC)</b>           | 030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)             |
| <b>Norway Norwegian Poison Information Center</b>                       | 22 59 13 00 (Available 24 hours a day.)                                                                         |
| <b>Portugal Poison Centre</b>                                           | 800 250 250 (Available 24 hours a day.)                                                                         |
| <b>Romania Număr de telefon care poate fi apelat în caz de urgență:</b> | 021 5992300, int. 291 Spitalul Clinic de Urgență București: spital@urgentafloreasca.ro                          |
| <b>Romania</b>                                                          | 0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Târgu Mureș; secretariat@spitjudms.ro |
| <b>Slovakia National Toxicological Information Centre</b>               | +421 2 5477 4166 (Available 24 hours a day.)                                                                    |
| <b>Sweden National Poison Information Center</b>                        | 112 - and ask for Poison Information (Available 24 hours a day.)                                                |
| <b>Switzerland Tox Info Suisse</b>                                      | 145 (Available 24 hours a day.)                                                                                 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

|          |            |                                                                                           |
|----------|------------|-------------------------------------------------------------------------------------------|
| Aerosols | Category 1 | H222 - Extremely flammable aerosol.<br>H229 - Pressurized container: May burst if heated. |
|----------|------------|-------------------------------------------------------------------------------------------|

##### Health hazards

|                                                  |                             |                                           |
|--------------------------------------------------|-----------------------------|-------------------------------------------|
| Serious eye damage/eye irritation                | Category 2                  | H319 - Causes serious eye irritation.     |
| Specific target organ toxicity - single exposure | Category 3 narcotic effects | H336 - May cause drowsiness or dizziness. |

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** acetone; propan-2-one; propanone, Propan-2-ol; Isopropyl alcohol; Isopropanol

##### Hazard pictograms



##### Signal word

Danger

##### Hazard statements

|      |                                             |
|------|---------------------------------------------|
| H222 | Extremely flammable aerosol.                |
| H229 | Pressurized container: May burst if heated. |
| H319 | Causes serious eye irritation.              |
| H336 | May cause drowsiness or dizziness.          |

## Precautionary statements

### Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P102 | Keep out of reach of children.                                                                 |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.                                        |
| P251 | Do not pierce or burn, even after use.                                                         |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.                                              |
| P271 | Use only outdoors or in a well-ventilated area.                                                |

### Response

Not assigned.

### Storage

|             |                                                                            |
|-------------|----------------------------------------------------------------------------|
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
|-------------|----------------------------------------------------------------------------|

### Disposal

|      |                                                                                                     |
|------|-----------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
|------|-----------------------------------------------------------------------------------------------------|

**Supplemental label information** None.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                                                                                                                  | %       | CAS-No. / EC No.     | REACH Registration No. | Index No.    | Notes |
|--------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|------------------------|--------------|-------|
| acetone; propan-2-one; propanone                                                                                               | 10 - 30 | 67-64-1<br>200-662-2 | 01-2119471330-49       | 606-001-00-8 | #     |
| <b>Classification:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336<br><b>Supplemental Hazard Statement(s):</b> EUH066 |         |                      |                        |              |       |
| Propan-2-ol; Isopropyl alcohol; Isopropanol                                                                                    | 10 - 30 | 67-63-0<br>200-661-7 | 01-2119457558-25       | 603-117-00-0 |       |
| <b>Classification:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336                                                    |         |                      |                        |              |       |

#### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).  
ATE: Acute toxicity estimate.  
M: M-factor  
PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.  
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 4.1. Description of first aid measures

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.                                                  |
| <b>Skin contact</b> | Wash off with soap and water. Get medical attention if irritation develops and persists.                                                                                                           |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>    | In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.                                                                                                     |

#### 4.2. Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

#### General fire hazards

Extremely flammable aerosol.

#### 5.1. Extinguishing media

|                                     |                                                       |
|-------------------------------------|-------------------------------------------------------|
| <b>Suitable extinguishing media</b> | Alcohol resistant foam. Powder. Carbon dioxide (CO2). |
|-------------------------------------|-------------------------------------------------------|

|                                                                   |                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unsuitable extinguishing media</b>                             | Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                                                                                                                      |
| <b>5.2. Special hazards arising from the substance or mixture</b> | Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.                                                                                                                             |
| <b>5.3. Advice for firefighters</b>                               |                                                                                                                                                                                                                                                                             |
| <b>Special protective equipment for firefighters</b>              | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.                                                                                                            |
| <b>Special fire fighting procedures</b>                           | Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| <b>Specific methods</b>                                           | Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.                                                                         |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

|                                    |                                                                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.                                                       |
| <b>For emergency responders</b>    | Keep unnecessary personnel away. Avoid breathing gas. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS. |

**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will spread on the water surface. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

|                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1. Precautions for safe handling</b>                                | Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).<br>Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)                                                                                                                                                                                      |
| <b>7.3. Specific end use(s)</b>                                          | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

| Components                                                      | Type | Value      | Form |
|-----------------------------------------------------------------|------|------------|------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | MAK  | 1200 mg/m3 |      |
|                                                                 |      | 500 ppm    |      |
|                                                                 | STEL | 4800 mg/m3 |      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | MAK  | 2000 ppm   |      |
|                                                                 |      | 500 mg/m3  |      |
|                                                                 | STEL | 200 ppm    |      |
|                                                                 |      | 2000 mg/m3 |      |

**Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

| Components            | Type | Value    | Form                 |
|-----------------------|------|----------|----------------------|
| Talc (CAS 14807-96-6) | MAK  | 800 ppm  |                      |
|                       |      | 2 mg/m3  | Respirable fraction. |
|                       |      | 20 mg/m3 | Inhalable fraction.  |
|                       |      | 10 mg/m3 | Respirable fraction. |

**Belgium. Exposure Limit Values**

| Components                                                | Type | Value      |
|-----------------------------------------------------------|------|------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | STEL | 1187 mg/m3 |
|                                                           |      | 492 ppm    |
|                                                           |      | 594 mg/m3  |
|                                                           |      | 246 ppm    |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | STEL | 1000 mg/m3 |
|                                                           |      | 400 ppm    |
|                                                           |      | 500 mg/m3  |
|                                                           |      | 200 ppm    |
| Talc (CAS 14807-96-6)                                     | TWA  | 2 mg/m3    |

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

| Components                                                | Type | Value        | Form                 |
|-----------------------------------------------------------|------|--------------|----------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | STEL | 1400 mg/m3   |                      |
|                                                           | TWA  | 600 mg/m3    |                      |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | STEL | 1225 mg/m3   |                      |
|                                                           | TWA  | 980 mg/m3    |                      |
| Talc (CAS 14807-96-6)                                     | TWA  | 1 fibers/cm3 | Respirable fraction. |
|                                                           |      | 6 mg/m3      | Inhalable fraction.  |
|                                                           |      | 3 mg/m3      | Respirable fraction. |

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

| Components                                                | Type | Value      | Form             |
|-----------------------------------------------------------|------|------------|------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | MAC  | 1210 mg/m3 |                  |
|                                                           |      | 500 ppm    |                  |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | MAC  | 999 mg/m3  |                  |
|                                                           |      | 400 ppm    |                  |
|                                                           | STEL | 1250 mg/m3 |                  |
|                                                           |      | 500 ppm    |                  |
| Talc (CAS 14807-96-6)                                     | MAC  | 1 mg/m3    | Respirable dust. |

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

| Components                                                | Type | Value        |
|-----------------------------------------------------------|------|--------------|
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | TWA  | 980 mg/m3    |
|                                                           |      | 400 ppm      |
| Talc (CAS 14807-96-6)                                     | TWA  | 706 part/cm3 |

**Czech Republic. OELs. Government Decree 361**

| Components                                                      | Type    | Value      | Form             |
|-----------------------------------------------------------------|---------|------------|------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | Ceiling | 1500 mg/m3 |                  |
|                                                                 | TWA     | 800 mg/m3  |                  |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | Ceiling | 1000 mg/m3 |                  |
|                                                                 | TWA     | 500 mg/m3  |                  |
| Talc (CAS 14807-96-6)                                           | TWA     | 2 mg/m3    | Respirable dust. |
|                                                                 |         | 10 mg/m3   | Total dust.      |

**Denmark. Exposure Limit Values**

| Components                                                      | Type | Value          | Form   |
|-----------------------------------------------------------------|------|----------------|--------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TLV  | 600 mg/m3      |        |
|                                                                 |      | 250 ppm        |        |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | TLV  | 490 mg/m3      |        |
|                                                                 |      | 200 ppm        |        |
| Talc (CAS 14807-96-6)                                           | TLV  | 0,3 fibers/cm3 | Fiber. |

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

| Components                                                      | Type | Value      |  |
|-----------------------------------------------------------------|------|------------|--|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3 |  |
|                                                                 |      | 500 ppm    |  |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 600 mg/m3  |  |
|                                                                 |      | 250 ppm    |  |
|                                                                 | TWA  | 350 mg/m3  |  |
|                                                                 |      | 150 ppm    |  |

**Finland. Workplace Exposure Limits**

| Components                                                      | Type | Value      | Form            |
|-----------------------------------------------------------------|------|------------|-----------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | STEL | 1500 mg/m3 |                 |
|                                                                 |      | 630 ppm    |                 |
|                                                                 | TWA  | 1200 mg/m3 |                 |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 500 ppm    |                 |
|                                                                 |      | 620 mg/m3  |                 |
|                                                                 | TWA  | 250 ppm    |                 |
|                                                                 |      | 500 mg/m3  |                 |
| Talc (CAS 14807-96-6)                                           | TWA  | 200 ppm    |                 |
|                                                                 |      | 2 mg/m3    | Inhalable dust. |
|                                                                 |      | 1 mg/m3    | Respirable.     |

**France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended**

| Components                                        | Type | Value      |  |
|---------------------------------------------------|------|------------|--|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1) | VLE  | 2420 mg/m3 |  |
|                                                   |      | 1000 ppm   |  |
|                                                   | VME  | 1210 mg/m3 |  |
|                                                   |      | 500 ppm    |  |

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

| Components                                                      | Type                     | Value      | Form                 |
|-----------------------------------------------------------------|--------------------------|------------|----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | VLE                      | 2420 mg/m3 |                      |
| <b>Regulatory status:</b>                                       | Regulatory binding (VRC) |            |                      |
|                                                                 |                          | 1000 ppm   |                      |
| <b>Regulatory status:</b>                                       | Regulatory binding (VRC) |            |                      |
|                                                                 | VME                      | 1210 mg/m3 |                      |
| <b>Regulatory status:</b>                                       | Regulatory binding (VRC) |            |                      |
|                                                                 |                          | 500 ppm    |                      |
| <b>Regulatory status:</b>                                       | Regulatory binding (VRC) |            |                      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | VLE                      | 980 mg/m3  |                      |
| <b>Regulatory status:</b>                                       | Indicative limit (VL)    |            |                      |
|                                                                 |                          | 400 ppm    |                      |
| <b>Regulatory status:</b>                                       | Indicative limit (VL)    |            |                      |
| Talc (CAS 14807-96-6)                                           | VME                      | 5 mg/m3    | Respirable fraction. |
| <b>Regulatory status:</b>                                       | Regulatory binding (VRC) |            |                      |
|                                                                 |                          | 10 mg/m3   | Inhalable fraction.  |
| <b>Regulatory status:</b>                                       | Regulatory binding (VRC) |            |                      |

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

| Components                                                      | Type | Value      | Form            |
|-----------------------------------------------------------------|------|------------|-----------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1200 mg/m3 |                 |
|                                                                 |      | 500 ppm    |                 |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | TWA  | 500 mg/m3  |                 |
|                                                                 |      | 200 ppm    |                 |
| Talc (CAS 14807-96-6)                                           | TWA  | 4 mg/m3    | Inhalable dust. |

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

| Components                                                      | Type | Value      | Form                 |
|-----------------------------------------------------------------|------|------------|----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | AGW  | 1200 mg/m3 |                      |
|                                                                 |      | 500 ppm    |                      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | AGW  | 500 mg/m3  |                      |
|                                                                 |      | 200 ppm    |                      |
| Talc (CAS 14807-96-6)                                           | AGW  | 10 mg/m3   | Inhalable fraction.  |
|                                                                 |      | 1,25 mg/m3 | Respirable fraction. |

**Greece. OELs (Decree No. 90/1999, as amended)**

| Components                                                      | Type | Value      | Form        |
|-----------------------------------------------------------------|------|------------|-------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | STEL | 3560 mg/m3 |             |
|                                                                 | TWA  | 1780 mg/m3 |             |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 1225 mg/m3 |             |
|                                                                 |      | 500 ppm    |             |
|                                                                 | TWA  | 980 mg/m3  |             |
|                                                                 |      | 400 ppm    |             |
| Talc (CAS 14807-96-6)                                           | TWA  | 2 mg/m3    | Respirable. |
|                                                                 |      | 10 mg/m3   | Inhalable   |

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

| Components                                                      | Type | Value      | Form             |
|-----------------------------------------------------------------|------|------------|------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3 |                  |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 1000 mg/m3 |                  |
|                                                                 | TWA  | 500 mg/m3  |                  |
| Talc (CAS 14807-96-6)                                           | TWA  | 2 mg/m3    | Respirable dust. |

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

| Components                                                      | Type | Value          | Form             |
|-----------------------------------------------------------------|------|----------------|------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 600 mg/m3      |                  |
|                                                                 |      | 250 ppm        |                  |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | TWA  | 490 mg/m3      |                  |
|                                                                 |      | 200 ppm        |                  |
| Talc (CAS 14807-96-6)                                           | TWA  | 0,3 fibers/cm3 | Fiber.           |
|                                                                 |      | 5 mg/m3        | Respirable dust. |
|                                                                 |      | 10 mg/m3       | Total dust.      |

**Ireland. Occupational Exposure Limits**

| Components                                                      | Type | Value      | Form                  |
|-----------------------------------------------------------------|------|------------|-----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3 |                       |
|                                                                 |      | 500 ppm    |                       |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 400 ppm    |                       |
|                                                                 | TWA  | 200 ppm    |                       |
| Talc (CAS 14807-96-6)                                           | TWA  | 10 mg/m3   | Total inhalable dust. |
|                                                                 |      | 0,8 mg/m3  | Respirable dust.      |

**Italy. Occupational Exposure Limits**

| Components                                                      | Type | Value      | Form                 |
|-----------------------------------------------------------------|------|------------|----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3 |                      |
|                                                                 |      | 500 ppm    |                      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 400 ppm    |                      |
|                                                                 | TWA  | 200 ppm    |                      |
| Talc (CAS 14807-96-6)                                           | TWA  | 2 mg/m3    | Respirable fraction. |

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

| Components                                                      | Type | Value      |  |
|-----------------------------------------------------------------|------|------------|--|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3 |  |
|                                                                 |      | 500 ppm    |  |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 600 mg/m3  |  |
|                                                                 | TWA  | 350 mg/m3  |  |

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

| Components                                        | Type | Value      | Form |
|---------------------------------------------------|------|------------|------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1) | STEL | 2420 mg/m3 |      |
|                                                   |      | 1000 ppm   |      |

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

| Components                                                | Type | Value      | Form                 |
|-----------------------------------------------------------|------|------------|----------------------|
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | TWA  | 1210 mg/m3 |                      |
|                                                           |      | 500 ppm    |                      |
|                                                           | STEL | 600 mg/m3  |                      |
|                                                           |      | 250 ppm    |                      |
| Talc (CAS 14807-96-6)                                     | TWA  | 350 mg/m3  |                      |
|                                                           |      | 150 ppm    |                      |
|                                                           | TWA  | 2 mg/m3    | Inhalable fraction.  |
|                                                           |      | 1 mg/m3    | Respirable fraction. |

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

| Components                                     | Type | Value      |
|------------------------------------------------|------|------------|
| acetone; propan-2-one; propanone (CAS 67-64-1) | TWA  | 1210 mg/m3 |
|                                                |      | 500 ppm    |

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

| Components                                     | Type | Value      |
|------------------------------------------------|------|------------|
| acetone; propan-2-one; propanone (CAS 67-64-1) | TWA  | 1210 mg/m3 |
|                                                |      | 500 ppm    |

**Netherlands. OELs (binding)**

| Components                                     | Type | Value      | Form             |
|------------------------------------------------|------|------------|------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1) | STEL | 2420 mg/m3 |                  |
|                                                | TWA  | 1210 mg/m3 |                  |
| Talc (CAS 14807-96-6)                          | TWA  | 0,25 mg/m3 | Respirable dust. |

**Norway. Administrative Norms for Contaminants in the Workplace**

| Components                                                | Type | Value     | Form             |
|-----------------------------------------------------------|------|-----------|------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | TLV  | 295 mg/m3 |                  |
|                                                           |      | 125 ppm   |                  |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | TLV  | 245 mg/m3 |                  |
|                                                           |      | 100 ppm   |                  |
| Talc (CAS 14807-96-6)                                     | TLV  | 6 mg/m3   | Total dust.      |
|                                                           |      | 2 mg/m3   | Respirable dust. |

**Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

| Components                                                | Type | Value      | Form                 |
|-----------------------------------------------------------|------|------------|----------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | STEL | 1800 mg/m3 |                      |
|                                                           | TWA  | 600 mg/m3  |                      |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | STEL | 1200 mg/m3 |                      |
|                                                           | TWA  | 900 mg/m3  |                      |
| Talc (CAS 14807-96-6)                                     | TWA  | 4 mg/m3    | Inhalable fraction.  |
|                                                           |      | 1 mg/m3    | Respirable fraction. |

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

| Components                                        | Type | Value      |
|---------------------------------------------------|------|------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1) | TWA  | 1210 mg/m3 |
|                                                   |      | 500 ppm    |

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

| Components                                                      | Type | Value   | Form                 |
|-----------------------------------------------------------------|------|---------|----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | STEL | 750 ppm |                      |
|                                                                 | TWA  | 500 ppm |                      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 400 ppm |                      |
|                                                                 | TWA  | 200 ppm |                      |
| Talc (CAS 14807-96-6)                                           | TWA  | 2 mg/m3 | Respirable fraction. |

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

| Components                                                      | Type | Value                          | Form                 |
|-----------------------------------------------------------------|------|--------------------------------|----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3                     |                      |
|                                                                 |      | 500 ppm                        |                      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 500 mg/m3                      |                      |
|                                                                 | TWA  | 203 ppm<br>200 mg/m3<br>81 ppm |                      |
| Talc (CAS 14807-96-6)                                           | TWA  | 2 mg/m3                        | Respirable fraction. |

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

| Components                                                      | Type | Value                           | Form                 |
|-----------------------------------------------------------------|------|---------------------------------|----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3                      |                      |
|                                                                 |      | 500 ppm                         |                      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | STEL | 1000 mg/m3                      |                      |
|                                                                 | TWA  | 400 ppm<br>500 mg/m3<br>200 ppm |                      |
| Talc (CAS 14807-96-6)                                           | TWA  | 2 mg/m3                         | Respirable fraction. |
|                                                                 |      | 2 mg/m3                         | Respirable fraction. |
|                                                                 |      | 10 mg/m3                        | Total                |

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

| Components                                                      | Type | Value      | Form                 |
|-----------------------------------------------------------------|------|------------|----------------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)               | TWA  | 1210 mg/m3 |                      |
|                                                                 |      | 500 ppm    |                      |
| Propan-2-ol; Isopropyl<br>alcohol; Isopropanol (CAS<br>67-63-0) | TWA  | 500 mg/m3  |                      |
|                                                                 |      | 200 ppm    |                      |
| Talc (CAS 14807-96-6)                                           | TWA  | 10 mg/m3   | Inhalable fraction.  |
|                                                                 |      | 1,25 mg/m3 | Respirable fraction. |

**Spain. Occupational Exposure Limits Components**

| Type                                                      | Value | Form                            |
|-----------------------------------------------------------|-------|---------------------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | TWA   | 1210 mg/m3                      |
|                                                           |       | 500 ppm                         |
|                                                           | STEL  | 1000 mg/m3                      |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) |       | 400 ppm                         |
|                                                           | TWA   | 500 mg/m3                       |
|                                                           |       | 200 ppm                         |
| Talc (CAS 14807-96-6)                                     | TWA   | 2 mg/m3<br>Respirable fraction. |

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7) Components**

| Type                                                      | Value | Form                        |
|-----------------------------------------------------------|-------|-----------------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | STEL  | 1200 mg/m3                  |
|                                                           |       | 500 ppm                     |
|                                                           | TWA   | 600 mg/m3                   |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | STEL  | 250 ppm<br>600 mg/m3        |
|                                                           |       | 250 ppm                     |
|                                                           | TWA   | 350 mg/m3                   |
| Talc (CAS 14807-96-6)                                     |       | 150 ppm                     |
|                                                           | TWA   | 2 mg/m3<br>Total dust.      |
|                                                           |       | 1 mg/m3<br>Respirable dust. |

**Switzerland. SUVA Grenzwerte am Arbeitsplatz Components**

| Type                                                      | Value | Form                            |
|-----------------------------------------------------------|-------|---------------------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | STEL  | 2400 mg/m3                      |
|                                                           |       | 1000 ppm                        |
|                                                           | TWA   | 1200 mg/m3                      |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) |       | 500 ppm                         |
|                                                           | STEL  | 1000 mg/m3                      |
|                                                           |       | 400 ppm                         |
| Talc (CAS 14807-96-6)                                     | TWA   | 500 mg/m3                       |
|                                                           |       | 200 ppm                         |
|                                                           | TWA   | 3 mg/m3<br>Respirable fraction. |

**UK. EH40 Workplace Exposure Limits (WELs) Components**

| Type                                                      | Value | Form                        |
|-----------------------------------------------------------|-------|-----------------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | STEL  | 3620 mg/m3                  |
|                                                           |       | 1500 ppm                    |
|                                                           | TWA   | 1210 mg/m3                  |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) |       | 500 ppm                     |
|                                                           | STEL  | 1250 mg/m3                  |
|                                                           |       | 1250 ppm                    |
| Talc (CAS 14807-96-6)                                     | TWA   | 500 ppm                     |
|                                                           |       | 999 mg/m3                   |
|                                                           | TWA   | 400 ppm<br>Respirable dust. |

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU**

| Components                                        | Type | Value      |
|---------------------------------------------------|------|------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1) | TWA  | 1210 mg/m3 |
|                                                   |      | 500 ppm    |

**Biological limit values****Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)**

| Components                                                | Value       | Determinant | Specimen            | Sampling Time |
|-----------------------------------------------------------|-------------|-------------|---------------------|---------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)         | 20 mg/g     | Acetone     | Creatinine in urine | *             |
|                                                           | 20 mg/l     | Acetone     | Blood               | *             |
|                                                           | 0,34 mmol/l | Acetone     | Blood               | *             |
|                                                           | 39 mmol/mol | Acetone     | Creatinine in urine | *             |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | 50 mg/l     | Acetone     | Blood               | *             |
|                                                           | 50 mg/l     | Acetone     | Urine               | *             |
|                                                           | 0,86 umol/l | Acetone     | Urine               | *             |
|                                                           | 0,86 umol/l | Acetone     | Blood               | *             |

\* - For sampling details, please see the source document.

**France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)**

| Components                                        | Value    | Determinant | Specimen | Sampling Time |
|---------------------------------------------------|----------|-------------|----------|---------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1) | 100 mg/l | Acétone     | Urine    | *             |

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

| Components                                                | Value   | Determinant | Specimen | Sampling Time |
|-----------------------------------------------------------|---------|-------------|----------|---------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)         | 80 mg/l | ACETON      | Urine    | *             |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | 25 mg/l | ACETON      | Urine    | *             |
|                                                           | 25 mg/l | ACETON      | Blood    | *             |

\* - For sampling details, please see the source document.

**Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices**

| Components                                                | Value       | Determinant | Specimen | Sampling Time |
|-----------------------------------------------------------|-------------|-------------|----------|---------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1)         | 1380 µmol/l | Acetone     | Urine    | *             |
|                                                           | 80 mg/l     | Acetone     | Urine    | *             |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | 430 µmol/l  | Acetone     | Urine    | *             |
|                                                           | 25 mg/l     | Acetone     | Urine    | *             |

\* - For sampling details, please see the source document.

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

| Components                                        | Value      | Determinant | Specimen            | Sampling Time |
|---------------------------------------------------|------------|-------------|---------------------|---------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1) | 53,36 mg/g | Acetone     | Creatinine in urine | *             |
|                                                   | 80 mg/l    | Acetone     | Urine               | *             |

\* - For sampling details, please see the source document.

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

| Components                                        | Value   | Determinant | Specimen | Sampling Time |
|---------------------------------------------------|---------|-------------|----------|---------------|
| acetone; propan-2-one;<br>propanone (CAS 67-64-1) | 50 mg/l | Acetona     | Urine    | *             |

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

| Components                                                | Value   | Determinant | Specimen | Sampling Time |
|-----------------------------------------------------------|---------|-------------|----------|---------------|
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | 40 mg/l | Acetona     | Urine    | *             |

\* - For sampling details, please see the source document.

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

| Components                                                | Value   | Determinant | Specimen | Sampling Time |
|-----------------------------------------------------------|---------|-------------|----------|---------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            | 80 mg/l | ACETON      | Urine    | *             |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | 25 mg/l | ACETON      | Urine    | *             |
|                                                           | 25 mg/l | ACETON      | Blood    | *             |

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)**
**General population**

| Components                                                | Value            | Assessment factor | Notes                  |
|-----------------------------------------------------------|------------------|-------------------|------------------------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            |                  |                   |                        |
| Long-term, Systemic, Dermal                               | 62 mg/kg bw/day  | 20                |                        |
| Long-term, Systemic, Inhalation                           | 200 mg/m3        | 5                 |                        |
| Long-term, Systemic, Oral                                 | 62 mg/kg bw/day  | 2                 |                        |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) |                  |                   |                        |
| Long-term, Systemic, Dermal                               | 319 mg/kg bw/day | 2                 | Repeated dose toxicity |
| Long-term, Systemic, Inhalation                           | 89 mg/m3         | 2                 | Repeated dose toxicity |
| Long-term, Systemic, Oral                                 | 26 mg/kg bw/day  | 2                 | Repeated dose toxicity |

**Workers**

| Components                                                | Value            | Assessment factor | Notes |
|-----------------------------------------------------------|------------------|-------------------|-------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            |                  |                   |       |
| Long-term, Systemic, Dermal                               | 186 mg/kg bw/day |                   |       |
| Long-term, Systemic, Inhalation                           | 1210 mg/m3       |                   |       |
| Short-term, Local, Inhalation                             | 2420 mg/m3       |                   |       |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) |                  |                   |       |
| Long-term, Systemic, Dermal                               | 888 mg/kg bw/day | 1                 |       |
| Long-term, Systemic, Inhalation                           | 500 mg/m3        | 1                 |       |

**Predicted no effect concentrations (PNECs)**

| Components                                                | Value      | Assessment factor | Notes |
|-----------------------------------------------------------|------------|-------------------|-------|
| acetone; propan-2-one; propanone (CAS 67-64-1)            |            |                   |       |
| Freshwater                                                | 10,6 mg/l  | 50                |       |
| Marine water                                              | 1,06 mg/l  | 500               |       |
| Sediment (freshwater)                                     | 30,4 mg/kg |                   |       |
| Sediment (marine water)                                   | 3,04 mg/kg |                   |       |
| Soil                                                      | 29,5 mg/kg |                   |       |
| STP                                                       | 100 mg/l   | 10                |       |
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) |            |                   |       |
| Freshwater                                                | 140,9 mg/l | 1                 |       |
| Secondary poisoning                                       | 160 mg/kg  | 30                | Oral  |
| Sediment (freshwater)                                     | 552 mg/kg  |                   |       |
| Soil                                                      | 28 mg/kg   |                   |       |

**Exposure guidelines**
**Cyprus OEL: Skin designation**

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Can be absorbed through the skin.

**Hungary OELs: Skin designation**

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Can be absorbed through the skin.

**Iceland OELs: Skin designation**

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) Can be absorbed through the skin.

## Ireland Exposure Limit Values: Skin designation

Propan-2-ol; Isopropyl alcohol; Isopropanol  
(CAS 67-63-0)

Can be absorbed through the skin.

### 8.2. Exposure controls

#### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

#### Individual protection measures, such as personal protective equipment

##### General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

##### Eye/face protection

Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

##### Skin protection

##### - Hand protection

When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

##### - Other

Wear suitable protective clothing.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A)

##### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

#### Hygiene measures

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid.

#### Form

Aerosol.

#### Colour

White.

#### Odour

Solvent.

#### Melting point/freezing point

Not available.

#### Boiling point or initial boiling point and boiling range

Not available.

#### Flammability

Not available.

#### Flash point

Not available.

#### Auto-ignition temperature

Not available.

#### Decomposition temperature

Not available.

#### pH

Not applicable.

#### Kinematic viscosity

Not available.

#### Solubility

##### Solubility (water)

Insoluble in water

##### Partition coefficient

Not available.

##### (n-octanol/water) (log value)

#### Vapour pressure

Not available.

#### Density and/or relative density

##### Relative density

0,89 g/cm<sup>3</sup> 20 °C

#### Vapour density

Not available.

#### Particle characteristics

Not available.

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

#### 9.2.2. Other safety characteristics

##### Evaporation rate

Not available.

**SECTION 10: Stability and reactivity**

|                                                 |                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>10.1. Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>10.2. Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>10.3. Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>10.4. Conditions to avoid</b>                | Avoid high temperatures. Contact with incompatible materials.                                 |
| <b>10.5. Incompatible materials</b>             | Acids. Strong oxidising agents. Chlorine. Isocyanates.                                        |
| <b>10.6. Hazardous decomposition products</b>   | Carbon oxides.                                                                                |

**SECTION 11: Toxicological information**

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

**Information on likely routes of exposure**

|                     |                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.                                                                  |
| <b>Skin contact</b> | Based on available data, the classification criteria are not met.                                                                                                    |
| <b>Eye contact</b>  | Causes serious eye irritation.                                                                                                                                       |
| <b>Ingestion</b>    | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.                                                  |
| <b>Symptoms</b>     | May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |

**11.1. Information on toxicological effects**

**Acute toxicity** Based on available data, the classification criteria are not met.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

acetone; propan-2-one; propanone (CAS 67-64-1)

**Acute****Dermal**

|      |     |             |
|------|-----|-------------|
| LD50 | Rat | 15800 mg/kg |
|------|-----|-------------|

**Inhalation**

|      |     |                    |
|------|-----|--------------------|
| LC50 | Rat | 50,1 mg/l, 8 Hours |
|------|-----|--------------------|

**Oral**

|      |     |            |
|------|-----|------------|
| LD50 | Rat | 5800 mg/kg |
|------|-----|------------|

Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

**Acute****Inhalation**

|      |     |                    |
|------|-----|--------------------|
| LC50 | Rat | > 25000 mg/m3, 6 h |
|------|-----|--------------------|

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory sensitisation** Based on available data, the classification criteria are not met.

**Skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Risk of cancer cannot be excluded with prolonged exposure.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure** May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Not likely, due to the form of the product.

**Mixture versus substance information** Not available.

## 11.2. Information on other hazards

|                                        |                                                                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endocrine disrupting properties</b> | The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| <b>Other information</b>               | Not available.                                                                                                                                                                                                               |

## SECTION 12: Ecological information

|                       |                                                                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1. Toxicity</b> | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Components                                                | Species |                                | Test Results           |
|-----------------------------------------------------------|---------|--------------------------------|------------------------|
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) |         |                                |                        |
| Aquatic                                                   |         |                                |                        |
| Acute                                                     |         |                                |                        |
| Crustacea                                                 | LC50    | Brine shrimp (Artemia salina)  | > 10000 mg/l, 24 hours |
| Fish                                                      | LC50    | Bluegill (Lepomis macrochirus) | > 1400 mg/l, 96 hours  |

|                                            |                                                                              |
|--------------------------------------------|------------------------------------------------------------------------------|
| <b>12.2. Persistence and degradability</b> | No data is available on the degradability of any ingredients in the mixture. |
|--------------------------------------------|------------------------------------------------------------------------------|

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water (log Kow)

|                                             |       |
|---------------------------------------------|-------|
| acetone; propan-2-one; propanone            | -0,24 |
| Propan-2-ol; Isopropyl alcohol; Isopropanol | 0,05  |

|                                      |                |
|--------------------------------------|----------------|
| <b>Bioconcentration factor (BCF)</b> | Not available. |
|--------------------------------------|----------------|

|                               |                    |
|-------------------------------|--------------------|
| <b>12.4. Mobility in soil</b> | No data available. |
|-------------------------------|--------------------|

|                                                 |                                                                                                                           |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>12.5. Results of PBT and vPvB assessment</b> | This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|

|                                              |                                                                                                                                                                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.6. Endocrine disrupting properties</b> | The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                    |                                                                                                                |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>12.7. Other adverse effects</b> | The product contains volatile organic compounds which have a photochemical ozone creation potential.<br>GWP: 2 |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|

### 12.8. Additional information

#### Estonia Dangerous substances in soil Data

|                                                           |                                                                                                                                                                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0) | Chemical pesticides (As the total sum of the active substances)<br>0,5 mg/kg<br>Chemical pesticides (As the total sum of the active substances) 20 mg/kg<br>Chemical pesticides (As the total sum of the active substances) 5 mg/kg |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Residual waste</b>               | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).                                                                                                                                                                                        |
| <b>Contaminated packaging</b>       | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.                                                                                                                                                              |
| <b>EU waste code</b>                | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                                                                                                                                                                                                          |
| <b>Disposal methods/information</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                                                                                                                  |

## SECTION 14: Transport information

### ADR

|                                      |                     |
|--------------------------------------|---------------------|
| <b>14.1. UN number</b>               | UN1950              |
| <b>14.2. UN proper shipping name</b> | AEROSOLS, flammable |

**14.3. Transport hazard class(es)**

**Class** 2.1  
**Subsidiary risk** Not assigned.  
**Label(s)** 2.1  
**Hazard No. (ADR)** Not assigned.  
**Tunnel restriction code** D  
**ADR/RID - Classification** 5F  
**code:**

**14.4. Packing group** Not assigned.

**14.5. Environmental hazards** No

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**IATA**

**14.1. UN number** UN1950

**14.2. UN proper shipping name** Aerosols, flammable

**14.3. Transport hazard class(es)**

**Class** 2.1  
**Subsidiary risk** Not assigned.

**14.4. Packing group** Not assigned.

**14.5. Environmental hazards** No

**ERG Code** 10L

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

**Passenger and cargo aircraft** Allowed with restrictions.

**Cargo aircraft only** Allowed with restrictions.

**IMDG**

**14.1. UN number** UN1950

**14.2. UN proper shipping name** Aerosols, flammable

**14.3. Transport hazard class(es)**

**Class** 2.1  
**Subsidiary risk** Not assigned.

**14.4. Packing group** Not assigned.

**14.5. Environmental hazards**

**Marine pollutant** No

**EmS** F-D, S-U

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Maritime transport in bulk according to IMO instruments** Not applicable.

**ADR; IATA; IMDG**

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**  
Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**  
acetone; propan-2-one; propanone (CAS 67-64-1)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**  
Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**  
Not listed.

#### Restrictions on use

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see [https://ec.europa.eu/home-affairs/system/files/2021-11/list\\_of\\_competent\\_authorities\\_and\\_national\\_contact\\_points\\_en.pdf](https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf).

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**  
acetone; propan-2-one; propanone (CAS 67-64-1)  
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**  
Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**  
acetone; propan-2-one; propanone (CAS 67-64-1)  
Propan-2-ol; Isopropyl alcohol; Isopropanol (CAS 67-63-0)

**Other regulations** The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations** Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**15.2. Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).  
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).  
CAS: Chemical Abstract Service.  
Ceiling: Short Term Exposure Limit Ceiling value.  
CEN: European Committee for Standardization.  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
GWP: Global Warming Potential.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MAC: Maximum Allowed Concentration.  
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.

TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
VLE: Exposure Limit Value.  
VME: Exposure Average Value.  
VOC: Volatile organic compounds.  
vPvB: Very persistent and very bioaccumulative.  
STEL: Short-term Exposure Limit.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.

#### Revision information

None.

#### Training information

Follow training instructions when handling this material.

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