# Pilot WF Alu

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

### 1.1 Product identifier

**Product name** : Pilot WF Alu

**UFI** : 2E9S-H2CK-G00M-4V2Y

**Product code** : 31162

**Product description** : Waterborne paint.

**Product type** : Liquid.

**Other means of identification** : Not available.

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

Use in coatings - Industrial use

Use in coatings - Professional use

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

Jotun A/S
P.O.Box 2021
3202 Sandefjord
Norway

Tel: + 47 33 45 70 00
Fax: +47 33 45 72 42
E-mail: SDSJotun@jotun.no

### 1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :

**Signal word** : Warning.

## SECTION 2: Hazards identification

**Hazard statements** : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**General** : Not applicable.

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.
P273 - Avoid release to the environment.
P261 - Avoid breathing vapour.

**Response** : P391 - Collect spillage.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

**Storage** : Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)
1,2-benzisothiazol-3(2h)-one (BIT)
C(M)IT/MIT (3:1)

**Supplemental label elements** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|

## SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|---|---|---|---|
| dipropylene glycol methyl ether | REACH #: 01-2119450011-60<br>EC: 252-104-2<br>CAS: 34590-94-8 | ≤10 | Not classified. | - | [2] |
| 2-butoxyethanol | REACH #: 01-2119475108-36<br>EC: 203-905-0<br>CAS: 111-76-2<br>Index: 603-014-00-0 | ≤3 | Acute Tox. 4, H302<br>Acute Tox. 3, H331<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 | ATE [Oral] = 1200 mg/kg<br>ATE [Inhalation (vapours)] = 3 mg/l | [1] [2] |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) | EC: 264-843-8<br>CAS: 64359-81-5 | <0.1 | Acute Tox. 4, H302<br>Acute Tox. 2, H330<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | ATE [Oral] = 567 mg/kg<br>ATE [Inhalation (dusts and mists)] = 0.16 mg/l<br>Skin Corr. 1, H314: C ≥ 5%<br>Skin Irrit. 2, H315: 0.025% ≤ C < 5%<br>Eye Dam. 1, H318: C ≥ 3%<br>Eye Irrit. 2, H319: 0.025% ≤ C < 3%<br>Skin Sens. 1, H317: C ≥ 0.0015%<br>M [Acute] = 100<br>M [Chronic] = 100 | [1] |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | EC: 259-627-5<br>CAS: 55406-53-6<br>Index: 616-212-00-7 | <0.1 | Acute Tox. 4, H302<br>Acute Tox. 3, H331<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT RE 1, H372 (trachea)<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | ATE [Oral] = 500 mg/kg<br>ATE [Inhalation (dusts and mists)] = 0.5 mg/l<br>M [Acute] = 10<br>M [Chronic] = 1 | [1] |
| 1,2-benzisothiazol-3(2h)-one (BIT) | EC: 220-120-9<br>CAS: 2634-33-5<br>Index: 613-088-00-6 | <0.05 | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 | ATE [Oral] = 500 mg/kg<br>Skin Sens. 1, H317: C ≥ 0.05%<br>M [Acute] = 1 | [1] |
| copper dinitrate | EC: 221-838-5<br>CAS: 3251-23-8 | ≤0.02 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 | M [Acute] = 100 | [1] |
| C(M)IT/MIT (3:1) | REACH #: 01-2120764691-48<br>CAS: 55965-84-9<br>Index: 613-167-00-5 | <0.0015 | Acute Tox. 3, H301<br>Acute Tox. 2, H310<br>Acute Tox. 2, H330<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>EUH071 | ATE [Oral] = 53 mg/kg<br>ATE [Dermal] = 50 mg/kg<br>ATE [Inhalation (vapours)] = 0.5 mg/l<br>Skin Corr. 1B, H314: C ≥ 0.6%<br>Skin Irrit. 2, H315: 0.06% ≤ C < 0.6%<br>Eye Dam. 1, H318: | [1] |

## SECTION 3: Composition/information on ingredients

| | | | | | |
|---|---|---|---|---|---|
| | | | | C ≥ 0.6%<br>Eye Irrit. 2, H319: 0.06% ≤ C < 0.6%<br>Skin Sens. 1, H317: C ≥ 0.0015%<br>M [Acute] = 100<br>M [Chronic] = 100 | |
| zinc pyrithione | EC: 236-671-3<br>CAS: 13463-41-7 | ≤0.00063 | Acute Tox. 3, H301<br>Acute Tox. 2, H330<br>Eye Dam. 1, H318<br>Repr. 1B, H360D<br>STOT RE 1, H372<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>**See Section 16 for the full text of the H statements declared above.** | ATE [Oral] = 221 mg/kg<br>ATE [Inhalation (dusts and mists)] = 0.14 mg/l<br>M [Acute] = 1000<br>M [Chronic] = 10 | [1] [2] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

**Eye contact** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

**Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

**Over-exposure signs/symptoms**

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:
irritation
redness

## SECTION 4: First aid measures

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

See toxicological information (Section 11)

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, $CO_2$, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

**Notes on joint storage**

Keep away from: oxidising agents, strong alkalis, strong acids.

**Additional information on storage conditions**

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Seveso Directive - Reporting thresholds**

**Danger criteria**

| Category | Notification and MAPP threshold | Safety report threshold |
|---|---|---|
| E2 | 200 tonne | 500 tonne |

See Technical Data Sheet / packaging for further information.

## 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

# SECTION 8: Exposure controls/personal protection

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 8.1 Control parameters

**Occupational exposure limits**

| Product/ingredient name | Exposure limit values |
|---|---|
| dipropylene glycol methyl ether | **FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through skin. Notes: indicative limit value**<br>TWA: 300 mg/m³ 8 hours.<br>TWA: 50 ppm 8 hours. |
| 2-butoxyethanol | **FOR-2011-12-06-1358 (Norway, 6/2021). Absorbed through skin. Notes: indicative limit value**<br>TWA: 10 ppm 8 hours.<br>TWA: 50 mg/m³ 8 hours. |
| zinc pyrithione | **EU OEL (Europe, 2000).**<br>TWA: 0.35 mg/m³ 8 hours. |

## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|---|---|---|---|---|
| dipropylene glycol methyl ether | DNEL | Long term Dermal | 65 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 310 mg/m³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 37.2 mg/m³ | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 1.67 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Dermal | 15 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 36 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 37.2 mg/m³ | General population | Systemic |
| | DNEL | Long term Dermal | 121 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 283 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 308 mg/m³ | Workers | Systemic |
| 2-butoxyethanol | DNEL | Short term Dermal | 89 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 663 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 246 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 75 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 98 mg/m³ | Workers | Systemic |
| | DNEL | Short term Dermal | 44.5 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Inhalation | 426 mg/m³ | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 13.4 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 123 mg/m³ | General population [Consumers] | Local |
| | DNEL | Long term Dermal | 38 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 49 mg/m³ | General population | Systemic |

## SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|---|---|---|---|---|
| | | | | [Consumers] | |
| | DNEL | Long term Oral | 3.2 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 6.3 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 26.7 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 59 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 98 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 147 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 246 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 426 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 1091 mg/m³ | Workers | Systemic |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | DNEL | Long term Inhalation | 0.023 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 0.07 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 1.16 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 1.16 mg/m³ | Workers | Local |
| | DNEL | Long term Dermal | 2 mg/kg bw/day | Workers | Systemic |
| 1,2-benzisothiazol-3(2h)-one (BIT) | DNEL | Long term Dermal | 0.345 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.966 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.2 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 6.81 mg/m³ | Workers | Systemic |
| copper dinitrate | DNEL | Long term Oral | 0.041 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.082 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 1 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 1 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 137 mg/kg bw/day | Workers | Systemic |
| C(M)IT/MIT (3:1) | DNEL | Long term Inhalation | 0.02 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 0.02 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m³ | Workers | Local |
| | DNEL | Long term Oral | 0.09 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.11 mg/kg bw/day | General population | Systemic |
| zinc pyrithione | DNEL | Long term Dermal | 0.01 mg/kg bw/day | Workers | Systemic |

# SECTION 8: Exposure controls/personal protection

## PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|---|---|---|
| dipropylene glycol methyl ether | Fresh water | 19 mg/l | Assessment Factors |
| | Marine | 1.9 mg/l | Assessment Factors |
| | Fresh water sediment | 70.2 mg/kg dwt | Assessment Factors |
| | Marine water sediment | 7.02 mg/kg dwt | Assessment Factors |
| | Soil | 2.74 mg/kg | Assessment Factors |
| | Sewage Treatment Plant | 4168 mg/l | Assessment Factors |
| 2-butoxyethanol | Fresh water | 8.8 mg/l | - |
| | Marine | 0.88 mg/l | - |
| | Sewage Treatment Plant | 463 mg/l | - |
| | Fresh water sediment | 34.6 mg/kg dwt | - |
| | Marine water sediment | 3.46 mg/kg dwt | - |
| | Soil | 3.13 mg/kg dwt | - |
| | Secondary Poisoning | 20 mg/kg | - |

## 8.2 Exposure controls

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying to ISO 16321-1:2022 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
The breakthrough time must be greater than the end use time of the product.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Always ensure that gloves are free from defects and that they are stored and used correctly.
The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

#### Gloves

Wear suitable gloves tested to ISO 374-1:2016.
Recommended, gloves(breakthrough time) > 8 hours: butyl rubber (> 0.4 mm), Viton® (> 0.7 mm), neoprene (> 0.35 mm)
May be used, gloves(breakthrough time) 4 - 8 hours: 4H/Silver Shield® (> 0.07 mm), nitrile rubber (> 0.4 mm), polyvinyl alcohol (PVA) (> 0.3 mm)
Not recommended, gloves(breakthrough time) < 1 hour: PVC (> 0.5 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

## SECTION 8: Exposure controls/personal protection

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

**Environmental exposure controls** : Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Colour** : Aluminium

**Odour** : Characteristic.

**Odour threshold** : Not applicable.

**Melting point/freezing point** : 0

**Initial boiling point and boiling range** : Lowest known value: 100°C (212°F) (water). Weighted average: 115.05°C (239.1°F)

**Flammability** : Not applicable.

**Lower and upper explosion limit** : 0.6 - 14%

**Flash point** : Not applicable.

**Auto-ignition temperature** : Not applicable.

**Decomposition temperature** : Not available.

**pH** : 8 to 9

**Viscosity** : Kinematic (40°C): >20.5 $mm^2/s$

**Solubility in water** : cold water Easily soluble
hot water Easily soluble

**Partition coefficient: n-octanol/water** : Not available.

**Vapour pressure** : Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 2.98 kPa (22.35 mm Hg) (at 20°C)

**Evaporation rate** : Highest known value: 0.36 (water) Weighted average: 0.32compared with butyl acetate

**Density** : 1.059 $g/cm^3$

**Vapour density** : Highest known value: 7.5 (Air = 1) (propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol). Weighted average: 5.2 (Air = 1)

**Explosive properties** : Not available.

**Oxidising properties** : Not available.

**Particle characteristics**

**Median particle size** : Not applicable.

### 9.2 Other information

## SECTION 9: Physical and chemical properties

No additional information.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| 2-butoxyethanol | LD50 Oral | Guinea pig - Male, Female | 1414 mg/kg | - |
| | LD50 Oral | Rat - Male, Female | 1300 mg/kg | - |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | LD50 Oral | Rat | 1470 mg/kg | - |
| 1,2-benzisothiazol-3(2h)-one (BIT) | LC50 Inhalation Dusts and mists | Rat | 40 mg/l | 4 hours |
| | LD50 Oral | Rat | 485 mg/kg | - |
| copper dinitrate | LD50 Oral | Rat | 794 mg/kg | - |
| C(M)IT/MIT (3:1) | LD50 Oral | Rat | 53 mg/kg | - |
| zinc pyrithione | LC50 Inhalation Dusts and mists | Rat | 0.14 mg/l | 4 hours |
| | LD50 Dermal | Rat | 2000 mg/kg | - |
| | LD50 Oral | Rat | 221 mg/kg | - |

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| Pilot WF Alu | 48979.6 | N/A | N/A | 122.4 | N/A |
| 2-butoxyethanol | 1200 | N/A | N/A | 3 | N/A |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) | 567 | N/A | N/A | N/A | 0.16 |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | 500 | N/A | N/A | N/A | 0.5 |
| 1,2-benzisothiazol-3(2h)-one (BIT) | 500 | N/A | N/A | N/A | N/A |
| C(M)IT/MIT (3:1) | 53 | 50 | N/A | 0.5 | N/A |
| zinc pyrithione | 221 | N/A | N/A | N/A | 0.14 |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| dipropylene glycol methyl ether | Eyes - Mild irritant | Human | - | 8 mg | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| 2-butoxyethanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |

## SECTION 11: Toxicological information

| | | | | | |
|---|---|---|---|---|---|
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) | Eyes - Severe irritant | Mammal - species unspecified | - | - | - |
| | Skin - Severe irritant | Mammal - species unspecified | - | - | - |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | Eyes - Irritant | Mammal - species unspecified | - | - | - |
| 1,2-benzisothiazol-3(2h)-one (BIT) | Eyes - Irritant | Mammal - species unspecified | - | - | - |
| | Skin - Mild irritant | Mammal - species unspecified | - | - | - |
| copper dinitrate | Eyes - Severe irritant | Rabbit | - | 100 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 0.066666667 minutes 100 milligrams | - |
| | Skin - Severe irritant | Rabbit | - | 500 milligrams | - |
| zinc pyrithione | Eyes - Irritant | Mammal - species unspecified | - | - | - |

### Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|---|---|---|---|
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) | skin | Mammal - species unspecified | Sensitising |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | skin | Mammal - species unspecified | Sensitising |
| 1,2-benzisothiazol-3(2h)-one (BIT) | skin | Mouse | Sensitising |
| C(M)IT/MIT (3:1) | skin | Mammal - species unspecified | Sensitising |

### Mutagenicity

No known significant effects or critical hazards.

### Carcinogenicity

No known significant effects or critical hazards.

### Reproductive toxicity

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Teratogenicity

No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

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

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| 3-iodo-2-propynyl butylcarbamate (IPBC) | Category 1 | - | trachea |
| zinc pyrithione | Category 1 | - | - |

### Aspiration hazard

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

# SECTION 11: Toxicological information

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

# SECTION 12: Ecological information

## 12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| 2-butoxyethanol | Acute EC50 1000 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 1000 mg/l Marine water | Crustaceans - Chaetogammarus marinus - Young | 48 hours |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) | Acute EC50 0.0057 mg/l | Crustaceans - Daphnia magna | 48 hours |
| | Acute LC50 0.014 mg/l | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 0.0027 mg/l | Fish - Onchorhynchus mykiss | 96 hours |
| | Chronic NOEC 0.00056 mg/l | Fish | 97 days |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | Acute EC50 0.022 mg/l | Algae - Scenedesmus subspicatus | 72 hours |
| | Acute EC50 0.16 mg/l | Crustaceans - Daphnia magna | 48 hours |
| | Acute LC50 0.067 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 70 ppb Fresh water | Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| 1,2-benzisothiazol-3(2h)-one (BIT) | Acute EC50 0.15 mg/l | Algae - Slenastrum capricornutum | 72 hours |
| | Acute EC50 1.05 mg/l | Crustaceans - Daphnia magna | 96 hours |
| | Acute LC50 1.4 mg/l | Fish - Onchorhynchus mykiss | 96 hours |
| copper dinitrate | Acute LC50 9.5 µg/l Fresh water | Crustaceans - Ceriodaphnia dubia | 48 hours |
| | Acute LC50 15 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| C(M)IT/MIT (3:1) | Acute EC50 0.048 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 0.0052 mg/l | Algae - Skeletonema costatum | 48 hours |
| | Acute EC50 0.1 mg/l | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 0.22 mg/l | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute NOEC 0.00064 mg/l | Algae - Skeletonema costatum | 48 hours |
| | Chronic NOEC 0.0012 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Chronic NOEC 0.004 mg/l | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 0.098 mg/l | Fish - Oncorhynchus mykiss | 28 days |
| zinc pyrithione | Acute EC50 0.067 mg/l | Algae | 72 hours |
| | Acute EC50 0.051 mg/l | Daphnia | 48 hours |
| | Acute LC50 0.0104 mg/l | Fish | 96 hours |
| | Chronic NOEC 2.7 ppb Marine water | Daphnia - Daphnia magna | 21 days |

**Conclusion/Summary** : This material is toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

# SECTION 12: Ecological information

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| dipropylene glycol methyl ether | - | - | Readily |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) | - | - | Readily |
| 3-iodo-2-propynyl butylcarbamate (IPBC) | - | - | Readily |
| C(M)IT/MIT (3:1) | - | - | Not readily |

## 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| dipropylene glycol methyl ether | 0.004 | - | low |
| 2-butoxyethanol | 0.81 | - | low |
| C(M)IT/MIT (3:1) | - | 3.16 | low |
| zinc pyrithione | 0.9 | 11 | low |

## 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Mobility** : Not available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 13.1 Waste treatment methods

**Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Yes.

**Disposal considerations** : Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.
If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.
For further information, contact your local waste authority.

**European waste catalogue (EWC)**

The European Waste Catalogue classification of this product, when disposed of as waste, is:

## SECTION 13: Disposal considerations

| Waste code | Waste designation |
|---|---|
| 08 01 11* | Waste paint and varnish containing organic solvents or other dangerous substances |

**Packaging**

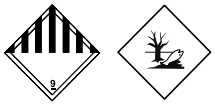
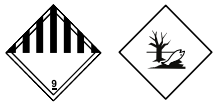
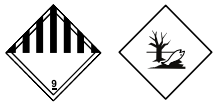
**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.
Empty containers must be scrapped or reconditioned.
Dispose of containers contaminated by the product in accordance with local or national legal provisions.

| Type of packaging | European waste catalogue (EWC) | |
|---|---|---|
| CEPE Guidelines | 15 01 10* | packaging containing residues of or contaminated by hazardous substances |

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number or ID number** | UN3082 | UN3082 | UN3082 | UN3082 |
| **14.2 UN proper shipping name** | Environmentally hazardous substance, liquid, n.o.s. (4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)) | Environmentally hazardous substance, liquid, n.o.s. (4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)) | Environmentally hazardous substance, liquid, n.o.s. (4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)). Marine pollutant (4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)) | Environmentally hazardous substance, liquid, n.o.s. (4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)) |
| **14.3 Transport hazard class(es)** | 9  | 9  | 9  | 9  |
| **14.4 Packing group** | III | III | III | III |
| **14.5 Environmental hazards** | Yes. | Yes. | Yes. | Yes. |

**Additional information**

**ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
**Hazard identification number** 90
**Tunnel code** (-)

**ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

## SECTION 14: Transport information

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
**Emergency schedules** F-A, S-F

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** : Not available.

**Industrial emissions (integrated pollution prevention and control) - Air** : Listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Listed

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Persistent Organic Pollutants

Not listed.

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

## SECTION 15: Regulatory information

### National regulations

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

### Norway

**Product registration number** : Under declaration

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**15.2 Chemical safety assessment** : Not applicable.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---|---|
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Aquatic Chronic 2, H411 | Calculation method |

### Full text of abbreviated H statements

## SECTION 16: Other information

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H360D | May damage the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Repr. 1B | REPRODUCTIVE TOXICITY - Category 1B |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 1 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 |

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**Notice to reader**

**The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.**

# SUMI
# Safe Use of Mixtures Information

## Pilot WF Alu

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

Indoor spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

**This safe use information is linked to SWED no.** : Professional spray painting, near-industrial setting Jotun_CEPE_PW_01_ABCA

**Product category(ies)** : Coatings and paints, thinners, paint removers

**Operational conditions**

**Place of use** : Indoor use

**Risk management measures (RMM)**

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type | ach (air changes per hour) | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Professional application of coatings and inks by spraying | PROC11 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Waste management | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |

See chapter 8 of this Safety Data Sheet for specifications.

# SUMI
# Safe Use of Mixtures Information

## Pilot WF Alu

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

Indoor painting by professionals with brush, roller, putty knife etc. with enhanced ventilation or LEV

**This safe use information is linked to SWED no.** : Professional low-energy painting, near-industrial setting Jotun_CEPE_PW_02_ACBA

**Product category(ies)** : Coatings and paints, thinners, paint removers

**Operational conditions**

**Place of use** : Indoor use

**Risk management measures (RMM)**

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type | ach (air changes per hour) | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | None | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | None | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Professional application of coatings and inks by brush or roller | PROC10 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Film formation - air drying | PROC04 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Cleaning | PROC05 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | None | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Waste management | PROC08a | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | None | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |

See chapter 8 of this Safety Data Sheet for specifications.

# SUMI
# Safe Use of Mixtures Information

## Pilot WF Alu

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

Indoor spray painting by professionals for specialist applications, with good general room ventilation plus respiratory protection

**This safe use information is linked to SWED no.** : Professional spray painting, indoor (Level II) Jotun_CEPE_PW_03b_ACBA

**Product category(ies)** : Coatings and paints, thinners, paint removers

**Operational conditions**

**Place of use** : Indoor use

**Risk management measures (RMM)**

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type | ach (air changes per hour) | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Professional application of coatings and inks by spraying | PROC11 | More than 4 hours | Local exhaust ventilation | Refer to relevant technical standards | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Waste management | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |

See chapter 8 of this Safety Data Sheet for specifications.

# SUMI
# Safe Use of Mixtures Information

## Pilot WF Alu

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

Indoor painting by professionals with brush or roller, with good general room ventilation (open doors/windows)

**This safe use information is linked to SWED no.** : Professional painting, indoor brush/roller Jotun_CEPE_PW_04_ABBA

**Product category(ies)** : Coatings and paints, thinners, paint removers

**Operational conditions**

**Place of use** : Indoor use

**Risk management measures (RMM)**

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type | ach (air changes per hour) | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Professional application of coatings and inks by brush or roller | PROC10 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | None | None | None |
| Cleaning | PROC05 | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Waste management | PROC08a | More than 4 hours | Enhanced (mechanical) room ventilation | 5 - 10 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |

See chapter 8 of this Safety Data Sheet for specifications.

# SUMI
# Safe Use of Mixtures Information

## Pilot WF Alu

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

Outdoor spray painting by professionals for specialist applications, with respiratory protection

**This safe use information is linked to SWED no.** : Professional spray painting, outdoor (Level II) Jotun_CEPE_PW_05b_BECB

**Product category(ies)** : Coatings and paints, thinners, paint removers

**Operational conditions**

**Place of use** : Outdoor use

**Risk management measures (RMM)**

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type | ach (air changes per hour) | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Professional application of coatings and inks by spraying | PROC11 | 1 to 4 hours | Outdoors | 3 - 5 | Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20. | Use eye protection according to EN 166. | Wear chemical-resistant gloves (tested to ISO 374-1:2016) in combination with 'basic' employee training. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | None | None | Wear suitable gloves tested to ISO 374-1:2016. |
| Cleaning | PROC05 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Waste management | PROC08a | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |

See chapter 8 of this Safety Data Sheet for specifications.

# SUMI
# Safe Use of Mixtures Information

## Pilot WF Alu

*This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.*

**General description of the process covered**

Outdoor painting by professionals with brush or roller

**This safe use information is linked to SWED no.** : Professional painting, outdoor brush/roller Jotun_CEPE_PW_06_AEBA

**Product category(ies)** : Coatings and paints, thinners, paint removers

**Operational conditions**

**Place of use** : Outdoor use

**Risk management measures (RMM)**

| Contributing activity | Process category (ies) | Maximum duration | Ventilation | | Respiratory | Eye | Hands |
|---|---|---|---|---|---|---|---|
| | | | Type | ach (air changes per hour) | | | |
| Preparation of material for application | PROC05 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Loading of application equipment and handling of coated parts before curing | PROC08a | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Professional application of coatings and inks by brush or roller | PROC10 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Film formation - force drying, stoving and other technologies | PROC04 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | None | None |
| Cleaning | PROC05 | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |
| Waste management | PROC08a | More than 4 hours | Outdoors | 3 - 5 | Wear a respirator conforming to EN140 with an assigned protection factor of at least 10. | Use eye protection according to EN 166. | Wear suitable gloves tested to ISO 374-1:2016. |

See chapter 8 of this Safety Data Sheet for specifications.