



# SAFETY DATA SHEET

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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 ALPOLISH

Registration number -

Synonyms None.

Product code 992

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

Identified uses Polishing paste for polishing aluminium vehicle wheels. For industrial, professional, and consumer use only.

Uses advised against Uses other than the recommended use.

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

Company name Howmet Wheel Systems

Howmet-Kőfém Kft.

Address 1-15 Verseci út  
8000 Székesfehérvár  
Hungary

Telephone number +36 22 531 200

E-mail SDSRequests@howmet.com

### 1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

CHEMTREC For Dangerous Goods Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC 24/7 at:

International +1-703-527-3887

Canada, USA (800) 424-9300

## 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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

### 2.2. Label elements

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

Contains: Aluminium oxide (non-fibrous)

Hazard pictograms None.

Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

#### Precautionary statements

Prevention Not assigned.

Response Not assigned.

Storage Not assigned.

Disposal Not assigned.

Supplemental information on the label None.

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight. The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                 | %    | CAS-No. / EC No.       | REACH Registration No. | Index No. | Notes |
|-------------------------------|------|------------------------|------------------------|-----------|-------|
| Aluminium oxide (non-fibrous) | ≥ 30 | 1344-28-1<br>215-691-6 | -                      | -         |       |
| Classification: -             |      |                        |                        |           |       |

**Composition comments** All concentrations are in percent by weight.

## 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

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| Inhalation   | Move to fresh air. Call a physician if symptoms develop or persist.                      |
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact  | Rinse with water. Get medical attention if irritation develops and persists.             |
| Ingestion    | Rinse mouth. Get medical attention if symptoms occur.                                    |

**4.2. Most important symptoms and effects, both acute and delayed** Direct contact with eyes may cause temporary irritation. Prolonged or excessive inhalation may cause respiratory tract irritation.

**4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Suitable extinguishing media   | Use extinguishing agent suitable for type of surrounding fire. |
| Unsuitable extinguishing media | None known.                                                    |

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed. Combustion products may include: aluminium oxide.

#### 5.3. Advice for firefighters

|                                               |                                                                                                                                                          |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Special protective equipment for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                            |
| Special fire fighting procedures              | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. |

## SECTION 6: Accidental release measures

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

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| For non-emergency personnel | Wear appropriate personal protective equipment.                                     |
| For emergency responders    | Keep unnecessary personnel away. For personal protection, see 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** Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Absorb spillage with suitable absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

#### 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

#### 7.1. Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

#### 7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### Austria. MAK List Components

| Components                                    | Type | Value    | Form                 |
|-----------------------------------------------|------|----------|----------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | MAK  | 5 mg/m3  | Respirable fraction. |
|                                               |      | 5 mg/m3  | Respirable fume.     |
|                                               | STEL | 10 mg/m3 | Inhalable fraction.  |
|                                               |      | 20 mg/m3 | Inhalable fraction.  |
|                                               |      | 10 mg/m3 | Respirable fume.     |
|                                               |      | 10 mg/m3 | Respirable fraction. |

##### Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

| Components                                    | Type | Value   | Form                 |
|-----------------------------------------------|------|---------|----------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 1 mg/m3 | Respirable fraction. |

##### Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

| Components                                    | Type | Value     | Form                 |
|-----------------------------------------------|------|-----------|----------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 10 mg/m3  | Inhalable fraction.  |
|                                               |      | 1,5 mg/m3 | Respirable fraction. |

##### Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

| Components                                    | Type | Value    | Form             |
|-----------------------------------------------|------|----------|------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | MAC  | 4 mg/m3  | Respirable dust. |
|                                               |      | 10 mg/m3 | Total dust.      |

##### Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

| Components                                    | Type | Value     | Form             |
|-----------------------------------------------|------|-----------|------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 0,1 mg/m3 | Respirable dust. |

##### Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

| Components                                    | Type | Value    | Form        |
|-----------------------------------------------|------|----------|-------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | STEL | 4 mg/m3  | Respirable. |
|                                               |      | 10 mg/m3 | Total       |
|                                               | TLV  | 5 mg/m3  | Total       |
|                                               |      | 2 mg/m3  | Respirable. |

**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             |
|-----------------------------------------------------|------|-----------|------------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 4 mg/m3   | Inhalable dust.  |
|                                                     |      | 1,5 mg/m3 | Respirable dust. |

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

| Components                                          | Type | Value      | Form                 |
|-----------------------------------------------------|------|------------|----------------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | AGW  | 10 mg/m3   | Inhalable fraction.  |
|                                                     |      | 1,25 mg/m3 | Respirable fraction. |

**Greece. OELs, Presidential Decree No. 307/1986, as amended**

| Components                                          | Type | Value    | Form        |
|-----------------------------------------------------|------|----------|-------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 5 mg/m3  | Respirable. |
|                                                     |      | 10 mg/m3 | Inhalable   |

**Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended**

| Components                                          | Type | Value   | Form        |
|-----------------------------------------------------|------|---------|-------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 5 mg/m3 |             |
|                                                     |      | 2 mg/m3 | Respirable. |

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

| Components                                          | Type | Value    |  |
|-----------------------------------------------------|------|----------|--|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 10 mg/m3 |  |

**Ireland. OELVs, Schedules 1 & 2, Code of Practise for Chemical Agents and Carcinogens Regulations**

| Components                                          | Type | Value    | Form                  |
|-----------------------------------------------------|------|----------|-----------------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 4 mg/m3  | Respirable dust.      |
|                                                     |      | 10 mg/m3 | Total inhalable dust. |

**Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended**

| Components                                          | Type | Value   | Form                   |
|-----------------------------------------------------|------|---------|------------------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 6 mg/m3 | Decomposition aerosol. |
|                                                     |      | 4 mg/m3 |                        |

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

| Components                                          | Type | Value     | Form                 |
|-----------------------------------------------------|------|-----------|----------------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 2,5 mg/m3 | Inhalable fraction.  |
|                                                     |      | 1,2 mg/m3 | Respirable fraction. |

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)**

| Components                                          | Type | Value   | Form                 |
|-----------------------------------------------------|------|---------|----------------------|
| Aluminium oxide<br>(non-fibrous) (CAS<br>1344-28-1) | TWA  | 1 mg/m3 | Respirable fraction. |

**Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)**

| Components                                    | Type | Value   | Form    |
|-----------------------------------------------|------|---------|---------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | STEL | 5 mg/m3 | Aerosol |
|                                               | TWA  | 2 mg/m3 | Aerosol |

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

| Components                                    | Type | Value     | Form                 |
|-----------------------------------------------|------|-----------|----------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 4 mg/m3   | Inhalable fraction.  |
|                                               |      | 0,1 mg/m3 | Respirable fraction. |

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended**

| Components                                    | Type | Value     | Form                 |
|-----------------------------------------------|------|-----------|----------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | KTV  | 20 mg/m3  | Inhalable fraction.  |
|                                               |      | 2,5 mg/m3 | Respirable fraction. |

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended**

| Components                                    | Type | Value      | Form                 |
|-----------------------------------------------|------|------------|----------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 10 mg/m3   | Inhalable fraction.  |
|                                               |      | 1,25 mg/m3 | Respirable fraction. |

**Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)**

| Components                                    | Type | Value    |
|-----------------------------------------------|------|----------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 10 mg/m3 |

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

| Components                                    | Type | Value   | Form             |
|-----------------------------------------------|------|---------|------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 5 mg/m3 | Total dust.      |
|                                               |      | 2 mg/m3 | Respirable dust. |

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte**

| Components                                    | Type | Value    | Form                         |
|-----------------------------------------------|------|----------|------------------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 24 mg/m3 | Respirable dust and/or fume. |
|                                               |      | 3 mg/m3  | Respirable dust.             |
|                                               |      | 3 mg/m3  | Respirable dust and/or fume. |

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

| Components                                    | Type | Value    | Form             |
|-----------------------------------------------|------|----------|------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | TWA  | 4 mg/m3  | Respirable dust. |
|                                               |      | 10 mg/m3 | Inhalable dust.  |

## Biological limit values

**Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended**

| Components                                    | Value          | Determinant | Specimen            | Sampling Time |
|-----------------------------------------------|----------------|-------------|---------------------|---------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | 0,25 µmol/mmol | Aluminium   | Creatinine in urine | *             |
|                                               | 0,06 mg/g      | Aluminium   | Creatinine in urine | *             |

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

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte**

| Components                                    | Value   | Determinant | Specimen            | Sampling Time |
|-----------------------------------------------|---------|-------------|---------------------|---------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) | 50 µg/g | Aluminium   | Creatinine in urine | *             |

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

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

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

## 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.

## Individual protection measures, such as personal protective equipment

**General information** 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 one or more of the following depending on hazard of task: chemical splash goggles, face shield, safety glasses with side shields. Eye protection should meet standard EN 166.

### Skin protection

**- Hand protection** Wear suitable gloves tested to EN374. Suitable gloves can be recommended by the glove supplier.

**- Other** Wear suitable protective clothing.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear a CEN approved respirator, with appropriate cartridge or canister, suitable for airborne concentration levels present. Appropriate respirator selection should be made by a qualified professional. Follow guidance on selection, use, care and maintenance in accordance with EN 529. Recommended use: Wear CEN approved respirator with filter type P1 or equivalent protection.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** 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                                                     | Liquid.         |
| Colour                                                   | Light blue.     |
| Odour                                                    | Slight.         |
| Melting point/freezing point                             | Not determined. |
| Boiling point or initial boiling point and boiling range | Not determined. |
| Flammability                                             | Not determined. |

### Upper/lower flammability or explosive limits

**Explosive limit - lower ( %)** Not determined.

|                                                                  |                                               |
|------------------------------------------------------------------|-----------------------------------------------|
| <b>Explosive limit – upper (%)</b>                               | Not determined.                               |
| <b>Flash point</b>                                               | Not determined.                               |
| <b>Auto-ignition temperature</b>                                 | Not determined.                               |
| <b>Decomposition temperature</b>                                 | Not determined.                               |
| <b>pH</b>                                                        | 8,5                                           |
| <b>Kinematic viscosity</b>                                       | Not determined.                               |
| <b>Solubility</b>                                                |                                               |
| <b>Solubility (water)</b>                                        | Not determined.                               |
| <b>Partition coefficient (n-octanol/water) (log value)</b>       | Not applicable for mixtures.                  |
| <b>Vapour pressure</b>                                           | Not determined.                               |
| <b>Density and/or relative density</b>                           |                                               |
| <b>Density</b>                                                   | Not determined.                               |
| <b>Relative density</b>                                          | Not determined.                               |
| <b>Vapour density</b>                                            | Not determined.                               |
| <b>Particle characteristics</b>                                  | Not applicable, material is a liquid.         |
| <b>9.2. Other information</b>                                    |                                               |
| <b>9.2.1. Information with regard to physical hazard classes</b> | No relevant additional information available. |
| <b>9.2.2. Other safety characteristics</b>                       | No relevant additional information 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>                | Contact with incompatible materials.                                                          |
| <b>10.5. Incompatible materials</b>             | Acids. Chlorine.                                                                              |
| <b>10.6. Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                |

## SECTION 11: Toxicological information

|                                                 |                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b>                      | Occupational exposure to the substance or mixture may cause adverse effects.                                                       |
| <b>Information on likely routes of exposure</b> |                                                                                                                                    |
| <b>Inhalation</b>                               | Prolonged inhalation may be harmful.                                                                                               |
| <b>Skin contact</b>                             | Prolonged or repeated exposure may cause minor irritation.                                                                         |
| <b>Eye contact</b>                              | Direct contact with eyes may cause temporary irritation.                                                                           |
| <b>Ingestion</b>                                | May cause discomfort if swallowed.                                                                                                 |
| <b>Symptoms</b>                                 | Direct contact with eyes may cause temporary irritation. Prolonged or excessive inhalation may cause respiratory tract irritation. |

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

|                       |                                   |
|-----------------------|-----------------------------------|
| <b>Acute toxicity</b> | Not expected to be acutely toxic. |
|-----------------------|-----------------------------------|

| <b>Components</b>                             | <b>Species</b>                                                    | <b>Test Results</b> |
|-----------------------------------------------|-------------------------------------------------------------------|---------------------|
| Aluminium oxide (non-fibrous) (CAS 1344-28-1) |                                                                   |                     |
| <u><b>Acute</b></u>                           |                                                                   |                     |
| <b>Oral</b>                                   |                                                                   |                     |
| LD50                                          | Rat                                                               | > 5000 mg/kg/day    |
| <b>Skin corrosion/irritation</b>              | Based on available data, the classification criteria are not met. |                     |
| <b>Serious eye damage/eye irritation</b>      | Based on available data, the classification criteria are not met. |                     |
| <b>Respiratory sensitisation</b>              | Based on available data, the classification criteria are not met. |                     |
| <b>Skin sensitisation</b>                     | Based on available data, the classification criteria are not met. |                     |
| <b>Germ cell mutagenicity</b>                 | Based on available data, the classification criteria are not met. |                     |

|                                                           |                                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------|
| <b>Carcinogenicity</b>                                    | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>                              | Based on available data, the classification criteria are not met. |
| <b>Specific target organ toxicity - single exposure</b>   | Based on available data, the classification criteria are not met. |
| <b>Specific target organ toxicity - repeated exposure</b> | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>                                  | Based on available data, the classification criteria are not met. |
| <b>Mixture versus substance information</b>               | No information available.                                         |

#### 11.2. Information on other hazards

|                                        |                                                                                                                                                                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endocrine disrupting properties</b> | This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight. |
| <b>Other information</b>               | The hazard assessment has been made based on similar products.                                                                                                                                                                                                                                          |

## SECTION 12: Ecological information

|                                                        |                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1. Toxicity</b>                                  | Based on available data, the classification criteria are not met for hazardous to the aquatic environment.                                                                                                                                                                                                 |
| <b>12.2. Persistence and degradability</b>             | The product contains inorganic compounds which are not biodegradable.                                                                                                                                                                                                                                      |
| <b>12.3. Bioaccumulative potential</b>                 | No data available.                                                                                                                                                                                                                                                                                         |
| <b>Partition coefficient n-octanol/water (log Kow)</b> | Not applicable for mixtures.                                                                                                                                                                                                                                                                               |
| <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 substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                                                                         |
| <b>12.6. Endocrine disrupting properties</b>           | This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight. |
| <b>12.7. Other adverse effects</b>                     | No data available.                                                                                                                                                                                                                                                                                         |

## 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.                        |
| <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. |
| <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.                                                                                                                       |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.                                                                                                                                                     |

## SECTION 14: Transport information

#### ADR

|                                           |                                   |
|-------------------------------------------|-----------------------------------|
| <b>14.1. UN number</b>                    | Not regulated as dangerous goods. |
| <b>14.2. UN proper shipping name</b>      | Not regulated as dangerous goods. |
| <b>14.3. Transport hazard class(es)</b>   |                                   |
| <b>Class</b>                              | Not assigned.                     |
| <b>Subsidiary risk</b>                    | -                                 |
| <b>Hazard No. (ADR)</b>                   | Not assigned.                     |
| <b>Tunnel restriction code</b>            | Not assigned.                     |
| <b>14.4. Packing group</b>                | -                                 |
| <b>14.5. Environmental hazards</b>        | No.                               |
| <b>14.6. Special precautions for user</b> | Not assigned.                     |

## RID

|                                    |                                   |
|------------------------------------|-----------------------------------|
| 14.1. UN number                    | Not regulated as dangerous goods. |
| 14.2. UN proper shipping name      | Not regulated as dangerous goods. |
| 14.3. Transport hazard class(es)   |                                   |
| Class                              | Not assigned.                     |
| Subsidiary risk                    | -                                 |
| 14.4. Packing group                | -                                 |
| 14.5. Environmental hazards        | No.                               |
| 14.6. Special precautions for user | Not assigned.                     |

## ADN

|                                    |                                   |
|------------------------------------|-----------------------------------|
| 14.1. UN number                    | Not regulated as dangerous goods. |
| 14.2. UN proper shipping name      | Not regulated as dangerous goods. |
| 14.3. Transport hazard class(es)   |                                   |
| Class                              | Not assigned.                     |
| Subsidiary risk                    | -                                 |
| 14.4. Packing group                | -                                 |
| 14.5. Environmental hazards        | No.                               |
| 14.6. Special precautions for user | Not assigned.                     |

## IATA

|                                    |                                   |
|------------------------------------|-----------------------------------|
| 14.1. UN number                    | Not regulated as dangerous goods. |
| 14.2. UN proper shipping name      | Not regulated as dangerous goods. |
| 14.3. Transport hazard class(es)   |                                   |
| Class                              | Not assigned.                     |
| Subsidiary risk                    | -                                 |
| 14.4. Packing group                | -                                 |
| 14.5. Environmental hazards        | No.                               |
| 14.6. Special precautions for user | Not assigned.                     |

## IMDG

|                                    |                                   |
|------------------------------------|-----------------------------------|
| 14.1. UN number                    | Not regulated as dangerous goods. |
| 14.2. UN proper shipping name      | Not regulated as dangerous goods. |
| 14.3. Transport hazard class(es)   |                                   |
| Class                              | Not assigned.                     |
| Subsidiary risk                    | -                                 |
| 14.4. Packing group                | -                                 |
| 14.5. Environmental hazards        |                                   |
| Marine pollutant                   | No.                               |
| EmS                                | Not assigned.                     |
| 14.6. Special precautions for user | Not assigned.                     |

14.7. Maritime transport in bulk according to IMO instruments Not established.

## 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**

Aluminium oxide (non-fibrous) (CAS 1344-28-1)

**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 authorisation, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended**  
**- Conditions of restriction given for the associated entry number should be considered**

Not listed.

**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.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

#### 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.

**Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances**

Aluminium oxide (non-fibrous) (CAS 1344-28-1)

Faserstäube, anorganische (außer Asbest), Künstlich hergestellte anorganische einkristalline Fasern (Whisker) aus Aluminoxid

#### France regulations

**France INRS Table of Occupational Diseases**

Not regulated.

#### 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: Agreement concerning the International Carriage of Dangerous Goods by Road.  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IMDG: International Maritime Dangerous Goods.  
IMO: International Maritime Organization.  
KTV: Short term exposure limit.  
MAC: Maximum Allowed Concentration.  
MAK: Maximum Workplace Concentrations (“Maximale Arbeitsplatzkonzentrationen”).  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
vPvB: Very persistent and very bioaccumulative.

#### References

ECHA: European Chemical Agency.  
IARC Monographs. Overall Evaluation of Carcinogenicity  
NLM: Hazardous Substances Data Base

#### 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

None.

**Training information**

Follow training instructions when handling this material.

**Disclaimer**

Howmet Wheel Systems cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

# ALPOLISH

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**Contains** Aluminium oxide (non-fibrous)

## Hazard statements

The mixture does not meet the criteria for classification.

Additional information is given in the Safety Data Sheet.



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