

PRODUCT INFORMATION SHEET

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

1.1. Product identifier

| | |
|-------------------------------------------------|-------------------------------------|
| Trade name or designation of the mixture | Aluminum Silicon Alloy |
| Registration number | - |
| Document number | L64 |
| Synonyms | AMC4632, AMC4632E, AMC4631, AMC4630 |
| Issue date | 27-August-2019 |
| Version number | 02 |
| Revision date | 04-May-2021 |
| Supersedes date | 27-August-2019 |

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

| | |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identified uses | Industrial uses: Uses of substances as such or in preparations at industrial sites Manufacture of basic metals, including alloys Manufacture of computer, electronic and optical products, electrical equipment General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Electricity, steam, gas water supply and sewage treatment Scientific research and development Other: Manufacture of medical and defense equipment |
| Uses advised against | Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Consumer uses: Private households (= general public = consumers) |

1.3. Details of the supplier of the product information sheet

Supplier

| | |
|-----------------------|-------------------------------------------------------|
| Company name | Materion Aerospace Metals Composites |
| Address | 1 R A E Road, Farnborough Hampshire GU14 6XE UK |
| Division | |
| Telephone | +1.216.383.4019 |
| e-mail | ehs@materion.com |
| Contact person | Theodore Knudson |

1.4. Emergency telephone number +1.216.383.4019

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

Health hazards

| | | |
|----------------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------|
| Skin sensitisation | Category 1 | H317 - May cause an allergic skin reaction. |
| Carcinogenicity | Category 2 | H351 - Suspected of causing cancer. |
| Specific target organ toxicity - repeated exposure | Category 1 (Respiratory system) | H372 - Causes damage to organs (respiratory system) through prolonged or repeated exposure by inhalation. |

Hazard summary Not available.

2.2. Label elements

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

Contains: Aluminium, COPPER FLAKES (COATED WITH ALIPHATIC ACID), Iron, magnesium, powder or turnings, NICKEL POWDER; [PARTICLE DIAMETER < 1MM], Silicon

Hazard pictograms



Signal word

Danger

Hazard statements

H317

May cause an allergic skin reaction.

H351

Suspected of causing cancer.

H372

Causes damage to organs (respiratory system) through prolonged or repeated exposure by inhalation.

Precautionary statements

Prevention

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P264

Wash thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P272

Contaminated work clothing should not be allowed out of the workplace.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P350

If on skin: Wash with plenty of water.

P308 + P313

If exposed or concerned: Get medical advice/attention.

P333 + P313

If skin irritation or rash occurs: Get medical advice/attention.

P363

Wash contaminated clothing before reuse.

Storage

P405

Store locked up.

Disposal

P501

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

Supplemental label information

For further information, please contact the Product Stewardship Department at +1.216.383.4019.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|----------------------------------------------------------------------------------------|-----------|------------------------|------------------------|--------------|-------|
| Aluminium | 71 - 87 | 7429-90-5 231-072-3 | - | 013-002-00-1 | |
| Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410 | | | | | T |
| Silicon | 9 - 24 | 7440-21-3 231-130-8 | - | - | |
| Classification: - | | | | | |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) | 1,8 - 2,2 | 7440-50-8 231-159-6 | 01-2119480154-42-0080 | - | |
| Classification: - | | | | | |
| Iron | 1,6 - 2 | 7439-89-6 231-096-4 | - | - | |
| Classification: STOT RE 1;H372 | | | | | |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] | 0,7 - 1,1 | 7440-02-0 231-111-4 | 01-2119438727-29-0049 | 028-002-00-7 | |
| Classification: Skin Sens. 1;H317, STOT SE 3;H335, Carc. 2;H351, STOT RE 2;H373 | | | | | 7,S |
| magnesium, powder or turnings | 0,5 - 0,7 | 7439-95-4 231-104-6 | - | - | |
| Classification: Flam. Sol. 1;H228, Self-heat. 2;H252, Water-React. 2;H261 | | | | | T |

SECTION 4: First aid measures

General information If exposed or concerned: get medical attention/advice. If you feel unwell, seek medical advice (show the label where possible). 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

Prolonged exposure may cause chronic effects.

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

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

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Powder. Dry sand.

Unsuitable extinguishing media Water. Do not use water jet as an extinguisher, as this will spread the fire. Carbon dioxide (CO₂).

5.2. Special hazards arising from the substance or mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear suitable protective equipment. Pressure-demand self-contained breathing apparatus must be worn by firefighters or any other persons potentially exposed to the particulate released during or after a fire.

Special firefighting procedures Water runoff can cause environmental damage.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel As supplied, this product poses no special release issues.

For emergency responders As supplied, this product poses no special release issues. Keep unnecessary personnel away.

6.2. Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Collect spillage. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas.

6.4. Reference to other sections

For personal protection, see section 8 of the PIS. For waste disposal, see section 13 of the PIS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use appropriate container to avoid environmental contamination. Do not empty into drains. Wear suitable gloves.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Use appropriate container to avoid environmental contamination. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a dry place. Keep out of the reach of children.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|---------------------------|
| Aluminium (CAS 7429-90-5) | MAK | 5 mg/m ³ | Respirable fraction. |
| | | 10 mg/m ³ | Inhalable fraction. |
| | STEL | 20 mg/m ³ | Inhalable fraction. |
| | | 10 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | MAK | 1 mg/m ³ | Inhalable fraction. |
| | | 0,1 mg/m ³ | Fume and respirable dust. |
| | STEL | 4 mg/m ³ | Inhalable fraction. |
| | | 0,4 mg/m ³ | Fume and respirable dust. |

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

| Components | Type | Value | Form |
|----------------------------------------------------------|------|-----------------------|-----------------|
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | STEL | 2 mg/m ³ | Inhalable dust. |
| | TWA | 0,5 mg/m ³ | Inhalable dust. |

Belgium. Exposure Limit Values

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 1 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m ³ | Dust and mist. |
| | | 0,2 mg/m ³ | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 1 mg/m ³ | |
| Silicon (CAS 7440-21-3) | TWA | 10 mg/m ³ | |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|------------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 2 mg/m ³ | |
| | | 10 mg/m ³ | Dust. |
| | | 1,5 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,1 mg/m ³ | |
| Iron (CAS 7439-89-6) | TWA | 6 mg/m ³ | Inhalable fraction. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,05 mg/m ³ | |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|------------------|
| Aluminium (CAS 7429-90-5) | MAC | 4 mg/m ³ | Respirable dust. |
| | | 10 mg/m ³ | Total dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | MAC | 1 mg/m ³ | |
| | | 0,2 mg/m ³ | Dust and fume. |
| | | 2 mg/m ³ | |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | MAC | 2 mg/m ³ | Dust and fume. |
| | | 0,5 mg/m ³ | |

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

| Components | Type | Value | Form |
|-------------------------|------|----------------------|------------------|
| Silicon (CAS 7440-21-3) | MAC | 4 mg/m ³ | Respirable dust. |
| | | 10 mg/m ³ | Total dust. |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|-------|
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,2 mg/m ³ | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 1 mg/m ³ | |

Czech Republic. OELs. Government Decree 361

| Components | Type | Value | Form |
|------------------------------------------------------------|---------|-----------------------|---------------------|
| Aluminium (CAS 7429-90-5) | TWA | 10 mg/m ³ | Dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | Ceiling | 2 mg/m ³ | Dust. |
| | | 0,2 mg/m ³ | Fume. |
| | TWA | 1 mg/m ³ | Dust. |
| Iron (CAS 7439-89-6) | TWA | 0,1 mg/m ³ | Fume. |
| | TWA | 10 mg/m ³ | |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | Ceiling | 1 mg/m ³ | Aerosol, inhalable. |
| | TWA | 0,5 mg/m ³ | Aerosol, inhalable. |

Denmark. Exposure Limit Values

| Components | Type | Value | Form |
|------------------------------------------------------------|------|------------------------|------------------------------|
| Aluminium (CAS 7429-90-5) | TLV | 5 mg/m ³ | Dust and fume. |
| | | 5 mg/m ³ | Fume. |
| | | 2 mg/m ³ | Respirable dust and/or fume. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TLV | 1 mg/m ³ | Dust. |
| | | 0,1 mg/m ³ | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TLV | 0,05 mg/m ³ | Dust. |
| | | | |
| Silicon (CAS 7440-21-3) | TLV | 10 mg/m ³ | |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|---------------------------------|
| Aluminium (CAS 7429-90-5) | TWA | 4 mg/m ³ | Fine dust, respiratory fraction |
| | | 10 mg/m ³ | Total dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m ³ | Total dust. |
| | | 0,2 mg/m ³ | Fine dust. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,5 mg/m ³ | |
| | | | |
| Silicon (CAS 7440-21-3) | TWA | 5 mg/m ³ | Fine dust, respiratory fraction |

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

| Components | Type | Value | Form |
|------------|------|----------------------|----------------------|
| | | 10 mg/m ³ | Respirable fraction. |

Finland. Workplace Exposure Limits

| Components | Type | Value | Form |
|------------------------------------------------------------|------|------------------------|------------------------------|
| Aluminium (CAS 7429-90-5) | TWA | 1,5 mg/m ³ | Welding fume. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,1 mg/m ³ | Respirable dust and/or fume. |
| | | 0,02 mg/m ³ | Respirable. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,01 mg/m ³ | Respirable. |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|---------------|
| Aluminium (CAS 7429-90-5) | VME | 5 mg/m ³ | Dust. |
| Regulatory status: Indicative limit (VL) | | | |
| | | 5 mg/m ³ | Welding fume. |
| Regulatory status: Indicative limit (VL) | | | |
| | | 10 mg/m ³ | |
| Regulatory status: Indicative limit (VL) | | | |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | VLE | 2 mg/m ³ | Dust. |
| Regulatory status: Indicative limit (VL) | | | |
| | VME | 1 mg/m ³ | Dust. |
| Regulatory status: Indicative limit (VL) | | | |
| | | 0,2 mg/m ³ | Fume. |
| Regulatory status: Indicative limit (VL) | | | |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | VME | 1 mg/m ³ | |
| Regulatory status: Indicative limit (VL) | | | |
| Silicon (CAS 7440-21-3) | VME | 10 mg/m ³ | |
| Regulatory status: Indicative limit (VL) | | | |

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 (CAS 7429-90-5) | TWA | 4 mg/m ³ | Inhalable dust. |
| | | 1,5 mg/m ³ | Respirable dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,01 mg/m ³ | Respirable fraction. |

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

| Components | Type | Value | Form |
|----------------------------------------------------------|------|-------------------------|----------------------|
| Aluminium (CAS 7429-90-5) | AGW | 10 mg/m ³ | Inhalable fraction. |
| | | 1,25 mg/m ³ | Respirable fraction. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | AGW | 0,03 mg/m ³ | Inhalable fraction. |
| | | 0,006 mg/m ³ | Respirable fraction. |

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

| Components | Type | Value | Form |
|---------------------------|------|----------------------|---------------|
| Aluminium (CAS 7429-90-5) | TWA | 5 mg/m ³ | Inhalable |
| | | 10 mg/m ³ | Welding fume. |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------|--------------------|
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | STEL | 10 mg/m3 | Respirable. |
| | | 10 mg/m3 | Pyrophoric powder. |
| | | 2 mg/m3 | Dust. |
| | TWA | 1 mg/m3 | Dust. |
| | | 0,2 mg/m3 | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 1 mg/m3 | |
| Silicon (CAS 7440-21-3) | TWA | 5 mg/m3 | Respirable. |
| | | 10 mg/m3 | Inhalable |

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

| Components | Type | Value | Form |
|------------------------------------------------------------|---------|-----------|-------------|
| Aluminium (CAS 7429-90-5) | TWA | 6 mg/m3 | Respirable. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | STEL | 4 mg/m3 | |
| | | 0,4 mg/m3 | Smoke. |
| | | 1 mg/m3 | |
| | TWA | 0,1 mg/m3 | Smoke. |
| | | 0,1 mg/m3 | |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | Ceiling | 0,1 mg/m3 | |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|------------|------------------|
| Aluminium (CAS 7429-90-5) | STEL | 10 mg/m3 | Dust. |
| | TWA | 5 mg/m3 | Dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m3 | Total dust. |
| | | 0,1 mg/m3 | Respirable dust. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,05 mg/m3 | Dust. |
| | | | |
| Silicon (CAS 7440-21-3) | TWA | 0,7 mg/m3 | |
| | | 0,5 ppm | |

Ireland. Occupational Exposure Limits

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------|-----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 1 ppm | Respirable dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m3 | Dust and mist. |
| | | 0,2 mg/m3 | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,5 mg/m3 | |
| | | | |
| Silicon (CAS 7440-21-3) | TWA | 4 mg/m3 | Respirable dust. |
| | | 10 mg/m3 | Total inhalable dust. |

Italy. Occupational Exposure Limits

| Components | Type | Value | Form |
|---------------------------|------|---------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 1 mg/m3 | Respirable fraction. |

Italy. Occupational Exposure Limits Components

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|---------------------|
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m ³ | Dust and mist. |
| | | 0,2 mg/m ³ | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 1,5 mg/m ³ | Inhalable fraction. |

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

| Components | Type | Value |
|------------------------------------------------------------|------|------------------------|
| Aluminium (CAS 7429-90-5) | TWA | 2 mg/m ³ |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | STEL | 1 mg/m ³ |
| | TWA | 0,5 mg/m ³ |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,05 mg/m ³ |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 5 mg/m ³ | Inhalable fraction. |
| | | 2 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m ³ | Inhalable fraction. |
| | | 0,2 mg/m ³ | Respirable fraction. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,5 mg/m ³ | |

Netherlands. OELs (binding)

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|---------------------|
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,1 mg/m ³ | Inhalable fraction. |

Norway. Administrative Norms for Contaminants in the Workplace

| Components | Type | Value | Form |
|------------------------------------------------------------|------|------------------------|--------------------|
| Aluminium (CAS 7429-90-5) | TLV | 5 mg/m ³ | Welding fume. |
| | | 5 mg/m ³ | Pyrophoric powder. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TLV | 1 mg/m ³ | Dust. |
| | | 0,1 mg/m ³ | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TLV | 0,05 mg/m ³ | |
| Silicon (CAS 7440-21-3) | TLV | 10 mg/m ³ | |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 2,5 mg/m ³ | Inhalable fraction. |
| | | 1,2 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,2 mg/m ³ | |

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

| Components | Type | Value | Form |
|----------------------------------------------------------------|------|------------------------|------|
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,25 mg/m ³ | |

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

| Components | Type | Value | Form |
|------------------------------------------------------------------|------|-----------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 1 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m ³ | Dust and mist. |
| | | 0,2 mg/m ³ | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 1,5 mg/m ³ | Inhalable fraction. |

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

| Components | Type | Value | Form |
|------------------------------------------------------------------|------|-----------------------|-------|
| Aluminium (CAS 7429-90-5) | STEL | 3 mg/m ³ | Fume. |
| | | 10 mg/m ³ | Dust. |
| | TWA | 3 mg/m ³ | Dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | STEL | 1 mg/m ³ | Fume. |
| | | 1,5 mg/m ³ | Dust. |
| | TWA | 0,2 mg/m ³ | Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | STEL | 0,5 mg/m ³ | Dust. |
| | | 0,5 mg/m ³ | |
| | TWA | 0,1 mg/m ³ | |

Slovakia. OELs for carcinogens and mutagens. Regulation No. 46/2002 on carcinogenic and mutagenic substances

| Components | Type | Value | Form |
|----------------------------------------------------------------|------|------------------------|---------------------|
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,05 mg/m ³ | Inhalable fraction. |

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

| Components | Type | Value | Form |
|------------------------------------------------------------------|------|-----------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 4 mg/m ³ | Inhalable fraction. |
| | | 1,5 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 1 mg/m ³ | Inhalable fraction. |
| | | 0,2 mg/m ³ | Respirable fume. |
| Iron (CAS 7439-89-6) | TWA | 6 mg/m ³ | |
| Silicon (CAS 7440-21-3) | TWA | 4 mg/m ³ | Respirable fraction. |
| | | 10 mg/m ³ | Inhalable fraction. |

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

| Components | Type | Value | Form |
|----------------------------------------------------------------|------|-------------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 10 mg/m ³ | Inhalable fraction. |
| | | 1,25 mg/m ³ | Respirable fraction. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,006 mg/m ³ | Respirable fraction. |

Spain. Occupational Exposure Limits Components

| Components | Type | Value | Form |
|------------------------------------------------------------|------|---------------------------------------------|------------------------|
| Aluminium (CAS 7429-90-5) | TWA | 5 mg/m ³ 10 mg/m ³ | Welding fume. Dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,1 mg/m ³ | Respirable fraction. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 1 mg/m ³ | |

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

| Components | Type | Value | Form |
|------------------------------------------------------------|------|--------------------------------------------|---------------------------------|
| Aluminium (CAS 7429-90-5) | TWA | 5 mg/m ³ 2 mg/m ³ | Total dust. Respirable dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | TWA | 0,01 mg/m ³ | Respirable dust. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,5 mg/m ³ | Total dust. |

Switzerland. SUVA Grenzwerte am Arbeitsplatz Components

| Components | Type | Value | Form |
|------------------------------------------------------------|------|-----------------------|----------------------|
| Aluminium (CAS 7429-90-5) | TWA | 3 mg/m ³ | Respirable fraction. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | STEL | 0,2 mg/m ³ | Inhalable fraction. |
| | TWA | 0,1 mg/m ³ | Inhalable fraction. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,5 mg/m ³ | Inhalable fraction. |
| Silicon (CAS 7440-21-3) | TWA | 3 mg/m ³ | Respirable fraction. |

UK. EH40 Workplace Exposure Limits (WELs) Components

| Components | Type | Value | Form |
|------------------------------------------------------------|------|----------------------------------------------|-------------------------------------|
| Aluminium (CAS 7429-90-5) | TWA | 4 mg/m ³ 10 mg/m ³ | Respirable dust. Inhalable dust. |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | STEL | 2 mg/m ³ | Inhalable dusts and mists. |
| | TWA | 1 mg/m ³ 0,2 mg/m ³ | Inhalable dusts and mists. Fume. |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | TWA | 0,5 mg/m ³ | |
| Silicon (CAS 7440-21-3) | TWA | 4 mg/m ³ 10 mg/m ³ | Respirable dust. Inhalable dust. |

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

| Components | Value | Determinant | Specimen | Sampling Time |
|---------------------------|----------|-------------|----------|---------------|
| Aluminium (CAS 7429-90-5) | 200 mg/l | Aluminium | Urine | * |

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

Czech Republic. Limit Values for Indicators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

| Components | Value | Determinant | Specimen | Sampling Time |
|----------------------------------------------------------|-----------------|-------------|---------------------|---------------|
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | 0,077 µmol/mmol | Nickel | Creatinine in urine | * |

Czech Republic. Limit Values for Indicators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.

| Components | Value | Determinant | Specimen | Sampling Time |
|------------|-----------|-------------|---------------------|---------------|
| | 0,04 mg/g | Nickel | Creatinine in urine | * |

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

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health

| Components | Value | Determinant | Specimen | Sampling Time |
|-------------------------------------------------------------|------------|-------------|----------|---------------|
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | 0,1 umol/l | Nickel | Urine | * |

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

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

| Components | Value | Determinant | Specimen | Sampling Time |
|---------------------------|---------|-------------|----------|---------------|
| Aluminium (CAS 7429-90-5) | 50 µg/g | Aluminium | Urine | * |

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

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

| Components | Value | Determinant | Specimen | Sampling Time |
|-------------------------------------------------------------|-----------------|-------------|---------------------|---------------|
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | 0,02 mg/g | Nickel | Creatinine in urine | * |
| | 0,038 µmol/mmol | Nickel | Creatinine in urine | * |

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

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

| Components | Value | Determinant | Specimen | Sampling Time |
|---------------------------|---------|-------------|---------------------|---------------|
| Aluminium (CAS 7429-90-5) | 60 µg/g | Aluminium | Creatinine in urine | * |

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

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

| Components | Value | Determinant | Specimen | Sampling Time |
|-------------------------------------------------------------|---------|-------------|---------------------|---------------|
| Aluminium (CAS 7429-90-5) | 60 µg/g | Aluminium | Creatinine in urine | * |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | 45 µg/l | Nickel | 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.

Exposure guidelines

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

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) 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 approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury is present, particularly during operations that generate dust, mist or fume. |
| Skin protection | |
| - Hand protection | Wear gloves to prevent contact with particulate or solutions. Wear gloves to prevent metal cuts and skin abrasions during handling. |
| - Other | Protective overgarments or work clothing must be worn by persons who may become contaminated with particulate during activities. |
| Respiratory protection | When airborne exposures exceed or have the potential to exceed the occupational exposure limits, approved respirators must be used as specified by an Industrial Hygienist or other qualified professional. Respirator users must be medically evaluated to determine if they are physically capable of wearing a respirator. Quantitative and/or qualitative fit testing and respirator training must be satisfactorily completed by all personnel prior to respirator use. Users of tight fitting respirators must be clean shaven on those areas of the face where the respirator seal contacts the face. Use pressure-demand airline respirators when performing jobs with high potential exposures such as changing filters in a baghouse air cleaning device. |
| Thermal hazards | Not applicable. |
| 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 | Inform appropriate managerial or supervisory personnel of all environmental releases. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|-----------------------|------------------------|
| Physical state | Solid. |
| Form | Solid. |
| Colour | Silver. Grey metallic. |

Odour None.

Odour threshold Not applicable.

pH Not applicable.

Melting point/freezing point > 548 °C (> 1018,4 °F) estimated / Not applicable.

Initial boiling point and boiling range Not applicable.

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) None known.

Upper/lower flammability or explosive limits

| | |
|---------------------------------------|-----------------|
| Flammability limit - lower (%) | Not applicable. |
| Flammability limit - upper (%) | Not applicable. |
| Explosive limit - lower (%) | Not applicable. |
| Explosive limit – upper (%) | Not applicable. |

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density Not applicable.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient (n-octanol/water) Not applicable.

Auto-ignition temperature Not applicable.

Decomposition temperature Not applicable.

Viscosity Not applicable.

Explosive properties Not explosive.

Oxidising properties Not oxidising.

9.2. Other information

| | |
|------------------|----------------------------------|
| Density | 2,80 g/cm ³ estimated |
| Specific gravity | 2,8 estimated |

SECTION 10: Stability and reactivity

| | |
|------------------------------------------|-------------------------------------------------------------|
| 10.1. Reactivity | Not available. |
| 10.2. Chemical stability | Material is stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| 10.4. Conditions to avoid | Contact with incompatible materials. |
| 10.5. Incompatible materials | Strong oxidising agents. |
| 10.6. Hazardous decomposition products | No hazardous decomposition products are known. |

SECTION 11: Toxicological information

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

Information on likely routes of exposure

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| Inhalation | Prolonged inhalation may be harmful. |
| Skin contact | No adverse effects due to skin contact are expected. |
| Eye contact | Direct contact with eyes may cause temporary irritation. |
| Ingestion | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. |

Symptoms Direct contact with eyes may cause temporary irritation.

11.1. Information on toxicological effects

| | |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Acute toxicity | Not applicable. |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. |
| Serious eye damage/eye irritation | Direct contact with eyes may cause temporary irritation. |
| Respiratory sensitisation | Not a respiratory sensitizer. |
| Skin sensitisation | This product is not expected to cause skin sensitisation. |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |

Carcinogenicity

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

Not listed.

IARC Monographs. Overall Evaluation of Carcinogenicity

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) 2B Possibly carcinogenic to humans.

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

Aluminium (CAS 7429-90-5) Carcinogenic, Category 1A
NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) Carcinogenic, Category 2.

| | |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------|
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Causes damage to organs () through prolonged or repeated exposure by inhalation. |
| Aspiration hazard | Not an aspiration hazard. |
| Mixture versus substance information | No information available. |
| Other information | Not available. |

SECTION 12: Ecological information

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

| Product | Species | | Test Results |
|------------------------------------------------------------|---------|-----------------------------------------------------------------|--------------------------------|
| Aluminum Silicon Alloy | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Fish | LC50 | Fish | 1,475 mg/l, 96 hours estimated |
| Components | Species | | Test Results |
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Blue crab (<i>Callinectes sapidus</i>) | 0,0031 mg/l |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) | 0,0219 - 0,0446 mg/l, 96 hours |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | | | |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) | 0,06 mg/l, 4 days |

* Estimates for product may be based on additional component data not shown.

| | |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12.2. Persistence and degradability | No data is available on the degradability of this product. |
| 12.3. Bioaccumulative potential | No data available. |
| Partition coefficient n-octanol/water (log Kow) | Not available. |
| Bioconcentration factor (BCF) | Not available. |
| 12.4. Mobility in soil | No data available. |
| 12.5. Results of PBT and vPvB assessment | Not a PBT or vPvB substance or mixture. |
| 12.6. Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

12.7. Additional information

Estonia Dangerous substances in soil Data

| | |
|---------------------------------------------------------------|-----------------------|
| COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8) | Copper (Cu) 100 mg/kg |
| | Copper (Cu) 150 mg/kg |
| | Copper (Cu) 500 mg/kg |
| NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0) | Nickel (Ni) 150 mg/kg |
| | Nickel (Ni) 50 mg/kg |
| | Nickel (Ni) 500 mg/kg |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | 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. |
| EU waste code | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Disposal methods/information | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. |
| Special precautions | Dispose in accordance with all applicable regulations. |

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

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 (CAS 7429-90-5)

COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8)

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

Restrictions on use**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Aluminium (CAS 7429-90-5)

NICKEL POWDER; [PARTICLE DIAMETER < 1MM] (CAS 7440-02-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Aluminium (CAS 7429-90-5)

COPPER FLAKES (COATED WITH ALIPHATIC ACID) (CAS 7440-50-8)

magnesium, powder or turnings (CAS 7439-95-4)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. Pregnant women should not work with the product, if there is the least risk of exposure.

National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture Not available.

Training information Not available.

Disclaimer This document has been prepared using data from sources considered to be technically reliable and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws, statutes and regulations.

To avoid any misunderstandings or incorrect assumptions by the receiver of the safety information, it should be made clear that the supplied information is not in the form of a Safety Data Sheet (SDS), but is actually a voluntary Product Information Sheet closely following the guidelines of the Safety Data Sheet – COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 (REACH/SDS).

Other information Revised information in Section 16.