

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Uncoated Aluminum metal, 3XXX

#### 1.2. Other means of identification

Synonyms : Aluminum Can Body Stock: Alloy 3104, Temper H19, 30XXX, 31XXX, ENAW3003, 3004A, 3105A, 3207A, HS35,

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Primary (industrial) metal sheet

#### 1.4. Supplier's details

##### Manufacturer

Aluminum Dynamics, LLC  
3413 Charleigh D.Ford Jr Drive  
Columbus, MS, 39701  
USA  
T (662) 352-0500

#### 1.5. Emergency phone number

Emergency number : For 24 hour emergency information call:  
CHEMTREC (800) 424-9300

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Specific target organ toxicity — Repeated exposure, Category 1

Combustible dust

Causes damage to organs through prolonged or repeated exposure.

May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.].

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: May form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.]

Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

: Do not breathe dust, fume, gas, mist, vapors, spray.  
Wash hands, forearms and face thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Get medical advice or attention if you feel unwell.

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

Not a fire hazard unless in particle form. Suspensions of aluminum dust in air may pose a severe explosion hazard. May become reactive with water or self-heating when cut, sanded, drilled, or otherwise processed.

### 2.5. Unknown acute toxicity

Not applicable

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name      | Product identifier | Conc.<br>(% w/w) Weight* |
|-----------|--------------------|--------------------------|
| Aluminum  | CAS-No.: 7429-90-5 | 80 – 100                 |
| Manganese | CAS-No.: 7439-96-5 | 0.1 – 2.5                |
| Silicon   | CAS-No.: 7440-21-3 | 0.1 – 2.5                |

Comments : \*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
- Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Chronic symptoms : Causes damage to organs through prolonged or repeated exposure.

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : For aluminum fires, use a class D dry-powder extinguisher (Lith-X).  
Unsuitable extinguishing media : Do not use water jet. Do not use water or halogen agents.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible dust. Products of combustion may include, and are not limited to: oxides of carbon. Flammable solid or self heating if cut drilled sanded etc. May be flammable and explosive when in dust cloud, depending on the concentration of the powder in a given area and the particle size of the powder. Aluminum oxides. magnesium oxide. Manganese oxide. Silicone dioxide. Zinc oxide.

Explosion hazard : Airborne dust in sufficient concentrations when confined and exposed to a sufficient ignition source can explode. Not a fire hazard unless in particle form. Suspensions of aluminum dust in air may pose a severe explosion hazard. A potential for explosion exists for a mixture of fine and coarse particles if at least 15% to 20% of the material is finer than 44 microns (325 mesh). Buffing and polishing generate finer material than grinding, sawing, and cutting.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6 Accidental release measures

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

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Use only non-sparking tools.

#### For non-emergency personnel

No additional information available

#### For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

For further information refer to section 8: "Exposure controls/personal protection"

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling
- : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapors. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Avoid generating and breathing dust. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Use only in well ventilated areas.
- Hygiene measures
- : Wash contaminated clothing before reuse. Wash hands, forearms, and face thoroughly after handling. Keep away from any possible contact with water, because of violent reaction and possible flash fire.
- Technical measures
- : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Maintain air gap between stacks/pallets.

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

- Storage conditions
- : Keep away from sources of ignition. Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Store in dust-tight, dry, labelled containers. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area.
- Incompatible materials for storage
- : Keep away from any possible contact with water, because of violent reaction and possible flash fire applies only if if cut drilled sanded etc

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

| Aluminum (7429-90-5)                       |                                                                                                            |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------|
| USA - ACGIH® - Threshold Limit Values      |                                                                                                            |
| Local name                                 | Aluminum, metal and insoluble compounds                                                                    |
| ACGIH® TLV® TWA                            | 1 mg/m³ (respirable particulate matter)                                                                    |
| Remark (ACGIH®)                            | TLV® Basis: Pneumoconiosis; LRT irr; neurotoxicity. Notations: A4 (Not classifiable as a Human Carcinogen) |
| ACGIH® chemical category                   | Not Classifiable as a Human Carcinogen                                                                     |
| Regulatory reference                       | ACGIH 2025                                                                                                 |
| USA - OSHA - Occupational Exposure Limits  |                                                                                                            |
| Local name                                 | Aluminum Metal (as Al)                                                                                     |
| OSHA PEL TWA                               | 15 mg/m³ (total dust)<br>5 mg/m³ (respirable fraction)                                                     |
| Regulatory reference (US-OSHA)             | OSHA Annotated Table Z-1                                                                                   |
| USA - NIOSH - Occupational Exposure Limits |                                                                                                            |
| Local name                                 | Aluminum Metal (as Al)                                                                                     |
| NIOSH REL (TWA)                            | 10 mg/m³ (total dust)<br>5 mg/m³ (respirable dust)                                                         |
| NIOSH REL 10h TWA                          | 10 mg/m³ (Total dust)<br>5 mg/m³ (Respirable fraction)                                                     |

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

|                                                      |                                                                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aluminum (7429-90-5)</b>                          |                                                                                                                                      |
| Regulatory reference (US-NIOSH)                      | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))                                                              |
| <b>Manganese (7439-96-5)</b>                         |                                                                                                                                      |
| <b>USA - ACGIH® - Threshold Limit Values</b>         |                                                                                                                                      |
| ACGIH® TLV® TWA                                      | 0.1 mg/m³ (inhalable particulate matter)                                                                                             |
| ACGIH® chemical category                             | Not Classifiable as a Human Carcinogen                                                                                               |
| <b>USA - OSHA - Occupational Exposure Limits</b>     |                                                                                                                                      |
| OSHA PEL (Ceiling)                                   | 5 mg/m³ (fume)                                                                                                                       |
| <b>USA - IDLH - Occupational Exposure Limits</b>     |                                                                                                                                      |
| IDLH                                                 | 500 mg/m³                                                                                                                            |
| <b>USA - NIOSH - Occupational Exposure Limits</b>    |                                                                                                                                      |
| NIOSH REL (TWA)                                      | 1 mg/m³ (fume)                                                                                                                       |
| NIOSH REL (STEL)                                     | 3 mg/m³                                                                                                                              |
| <b>Silicon (7440-21-3)</b>                           |                                                                                                                                      |
| <b>USA - OSHA - Occupational Exposure Limits</b>     |                                                                                                                                      |
| Local name                                           | Silicon                                                                                                                              |
| OSHA PEL TWA                                         | 15 mg/m³ (total dust)<br>5 mg/m³ (respirable fraction)                                                                               |
| Regulatory reference (US-OSHA)                       | OSHA Annotated Table Z-1                                                                                                             |
| <b>USA - Cal/OSHA - Occupational Exposure Limits</b> |                                                                                                                                      |
| Local name                                           | Silicon                                                                                                                              |
| Cal/OSHA PEL (OEL TWA)                               | 10 mg/m³ (Total dust)<br>5 mg/m³ (Respirable fraction)                                                                               |
| Regulatory reference                                 | California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1) |
| <b>USA - NIOSH - Occupational Exposure Limits</b>    |                                                                                                                                      |
| Local name                                           | Silicon                                                                                                                              |
| NIOSH REL (TWA)                                      | 10 mg/m³ (total dust)<br>5 mg/m³ (respirable dust)                                                                                   |
| NIOSH REL 10h TWA                                    | 10 mg/m³ (Total dust)<br>5 mg/m³ (Respirable fraction)                                                                               |
| Regulatory reference (US-NIOSH)                      | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))                                                              |

### Exposure limit values of other components

|                                              |                                                              |
|----------------------------------------------|--------------------------------------------------------------|
| <b>Lead (7439-92-1)</b>                      |                                                              |
| <b>USA - ACGIH® - Threshold Limit Values</b> |                                                              |
| ACGIH® TLV® TWA                              | 0.05 mg/m³                                                   |
| ACGIH® chemical category                     | Confirmed Animal Carcinogen with Unknown Relevance to Humans |

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

| Lead (7439-92-1)                           |                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USA - ACGIH® - Biological Exposure Indices |                                                                                                                                                                                                                                                                                    |
| BEI (BLV)                                  | 200 µg/l Parameter: Lead - Medium: blood - Sampling time: not critical (Note: Persons applying this BEI are encouraged to counsel female workers of child-bearing age about the risk of delivering a child with a PbB (lead in blood level) over the current CDC reference value.) |
| USA - OSHA - Occupational Exposure Limits  |                                                                                                                                                                                                                                                                                    |
| OSHA PEL TWA                               | 50 µg/m³                                                                                                                                                                                                                                                                           |
| USA - IDLH - Occupational Exposure Limits  |                                                                                                                                                                                                                                                                                    |
| IDLH                                       | 100 mg/m³                                                                                                                                                                                                                                                                          |
| USA - NIOSH - Occupational Exposure Limits |                                                                                                                                                                                                                                                                                    |
| NIOSH REL (TWA)                            | 0.05 mg/m³                                                                                                                                                                                                                                                                         |

### 8.2. Appropriate engineering controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Ensure good ventilation of the work station. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e, there is not leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. |
| Environmental exposure controls  | : Avoid release to the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                             |
| Wear suitable gloves. Consult glove manufacturer's product information on material suitability and material thickness.                                                                                                                                                                                                                                                                                                              |
| <b>Eye protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                              |
| Safety glasses or goggles are recommended when using product.                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Skin and body protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                    |
| Wear suitable protective clothing                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Respiratory protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                      |
| In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment. |

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                |                               |
|----------------|-------------------------------|
| Physical state | : Solid                       |
| Color          | : Gray Silver                 |
| Odor           | : Odorless                    |
| Odor threshold | : No data available           |
| pH             | : No data available           |
| Melting point  | : 482 – 660 °C (900 - 1220°F) |
| Freezing point | : No data available           |

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

|                                       |                                                                                                                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Boiling point                         | : No data available                                                                                                                                                                                                                  |
| Flash point                           | : No data available                                                                                                                                                                                                                  |
| Flammability (solid, gas)             | : Not flammable Not a fire hazard unless in particle form. Suspensions of aluminum dust in air may pose a severe explosion hazard. May become reactive with water or self-heating when cut, sanded, drilled, or otherwise processed. |
| Vapor pressure                        | : No data available                                                                                                                                                                                                                  |
| Relative vapor density at 20°C        | : No data available                                                                                                                                                                                                                  |
| Relative density                      | : 2.5 – 2.9                                                                                                                                                                                                                          |
| Solubility                            | : No data available                                                                                                                                                                                                                  |
| Partition coefficient n-octanol/water | : No data available                                                                                                                                                                                                                  |
| Auto-ignition temperature             | : No data available                                                                                                                                                                                                                  |
| Decomposition temperature             | : No data available                                                                                                                                                                                                                  |
| Viscosity, kinematic                  | : No data available                                                                                                                                                                                                                  |
| Explosion limits                      | : No data available                                                                                                                                                                                                                  |
| Explosive properties                  | : May form combustible dust concentrations in air - applies only if cut drilled sanded etc                                                                                                                                           |
| Particle characteristics              | : No data available                                                                                                                                                                                                                  |

| Aluminum                  |                          |
|---------------------------|--------------------------|
| Boiling point             | 2467 °C (at 101.325 hPa) |
| Auto-ignition temperature | 590 °C                   |
| Vapor pressure            | 0.00013 hPa (at 974 °C)  |

| Manganese      |                      |
|----------------|----------------------|
| Vapor pressure | 1 mm Hg (at 1292 °C) |

| Silicon       |                                       |
|---------------|---------------------------------------|
| Boiling point | 2355 – 3265 °C Atm. press.: 101,3 kPa |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions. May form combustible dust concentrations in air.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Avoid dust formation. Incompatible materials. For wetted coil of foil: In coils of aluminum foil immersed in water, a vigorous oxidation reaction may occur, producing hydrogen gas and heat. When the coils are removed from the cooling effect of the water, this reaction accelerates, large amounts of steam are produced, the temperature rises significantly, and hydrogen gas can reach concentrations over the lower explosive limit (4.1%): this can result in an explosive rupture of the coils. Rupture of a coil may occur even when the coil is only partly immersed in water, and the immersion time is short.

### 10.5. Incompatible materials

Molten aluminum. Strong oxidizing agents

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Aluminum (7429-90-5)

|                     |                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------|
| LD50 oral rat       | > 15900 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                |
| LC50 inhalation rat | > 0.888 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |

#### Manganese (7439-96-5)

|                     |                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat       | 9 g/kg (Source: NLM_CIP)                                                                                                                       |
| LC50 inhalation rat | > 5.14 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)) |

#### Silicon (7440-21-3)

|                    |                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------|
| LD50 oral rat      | > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 5000 mg/kg body weight Animal: rabbit                                                   |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified

#### Aluminum (7429-90-5)

|                           |                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (animal/male, F0/P) | 1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Silicon (7440-21-3)

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| NOAEL (animal/male, F0/P) | 5000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other: |
|---------------------------|-------------------------------------------------------------------------|

STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified.

#### Aluminum (7429-90-5)

|                                                  |                                                                                                                                                 |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEC (inhalation, rat, dust/mist/fume, 90 days) | 0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)                                         |
| NOAEL (subchronic,oral,animal/male,90 days)      | 1034 mg/kg body weight Animal: dog, Animal sex: male, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)   |
| NOAEL (subchronic,oral,animal/female,90 days)    | 1087 mg/kg body weight Animal: dog, Animal sex: female, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents) |

#### Manganese (7439-96-5)

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
|------------------------|-----------------------------------------------------------------|



# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

| Silicon (7440-21-3)                 |                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral,rat,90 days)            | > 5000 mg/kg body weight Animal: rat, Animal sex: male                                                                                        |
| Aspiration hazard                   | : Not classified                                                                                                                              |
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract.                                                                                              |
| Symptoms/effects after skin contact | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.                                                            |
| Symptoms/effects after eye contact  | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                          |
| Chronic symptoms                    | : Causes damage to organs through prolonged or repeated exposure.                                                                             |
| Other information                   | : Likely routes of exposure: ingestion, inhalation, skin and eye.                                                                             |

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

|                                                           |                                                                   |
|-----------------------------------------------------------|-------------------------------------------------------------------|
| Ecology - general                                         | : May cause long-term adverse effects in the aquatic environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                  |

| Aluminum (7429-90-5) |                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 72h - Algae [1] | 1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |

| Manganese (7439-96-5) |                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]       | > 3.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)          |
| EC50 - Crustacea [1]  | > 1.6 mg/l Test organisms (species): Daphnia magna                                                  |
| EC50 72h - Algae [1]  | 4.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2]  | 2.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC (chronic)        | 1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '8 d'                               |

| Silicon (7440-21-3)  |                                                                                                                                            |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 72h - Algae [1] | ≈ 250 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |

### 12.2. Persistence and degradability

| Uncoated Aluminum metal, 3XXX |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Not established.   |
| Aluminum (7429-90-5)          |                    |
| Persistence and degradability | Rapidly degradable |
| Manganese (7439-96-5)         |                    |
| Persistence and degradability | Rapidly degradable |

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

### Silicon (7440-21-3)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

### 12.3. Bioaccumulative potential

### Uncoated Aluminum metal, 3XXX

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

|                              |                           |
|------------------------------|---------------------------|
| Ozone                        | : Not classified          |
| Fluorinated greenhouse gases | : No                      |
| Other information            | : No other effects known. |

## SECTION 13 Disposal considerations

|                                            |                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 14 Transport information

In accordance with DOT

### 14.1. UN number

|              |                 |
|--------------|-----------------|
| UN-No. (DOT) | : Not regulated |
|--------------|-----------------|

### 14.2. UN Proper Shipping Name

|                            |                 |
|----------------------------|-----------------|
| Proper Shipping Name (DOT) | : Not regulated |
|----------------------------|-----------------|

### 14.3. Transport hazard class(es)

**DOT**

|                                  |                 |
|----------------------------------|-----------------|
| Transport hazard class(es) (DOT) | : Not regulated |
|----------------------------------|-----------------|

### 14.4. Packing group

|                     |                 |
|---------------------|-----------------|
| Packing group (DOT) | : Not regulated |
|---------------------|-----------------|

### 14.5. Environmental hazards

|                   |                                           |
|-------------------|-------------------------------------------|
| Other information | : No supplementary information available. |
|-------------------|-------------------------------------------|

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

Not applicable

# Uncoated Aluminum metal, 3XXX

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

No additional information available

#### 15.3. State regulations



#### WARNING:

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16 Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024

Revision date : 8/31/2026

Issue date : 8/31/2026

Other information : None. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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Safety Data Sheet (SDS), USA

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