



Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ALUMA-BRAZE™ All-In-One Flux Cored Aluminum Brazing Alloy
Product form: Mixture
Type of product: Alloy
Product group: Trade product
Other means of identification: ALUMINUM 05

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

Main use category: Professional use, Industrial use
Use of the substance/mixture: Braze Wire + Flux
Use of the substance/mixture: Welding and soldering products, flux products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Uniweld Products, Inc.
2850 Ravenswood Road
Ft. Lauderdale, FL 33312, USA
800-323-2111 • 954-584-2000
info@uniweld.com • www.uniweld.com

1.4. Emergency telephone number

Emergency number: Global: +44 1865 407333 (NCEC) USA: +1 202 464 2554 (NCEC)

2. Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity — Repeated exposure, Category 2 H373
Full text of H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP): Danger

Hazardous ingredients: Cesium Tetrafluoro Aluminate

Hazard statements (CLP): H318 - Causes serious eye damage.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP): P260 - Do not breathe vapours, gas, fume, dust.
P280 - Wear eye protection, protective clothing, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor.

2.3. Other hazards

No additional information available

3. Composition/information on ingredients

3.1. Other hazards

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|--------|---|
| Aluminium (Al) substance with national workplace exposure limit(s) (GB) | (CAS-No.) 7429-90-5 (EC-No.) 231-072-3;231-072-3b (REACH-no) 01-2119529243-45-XXXX | < 30 | Not classified |
| Cesium Tetrafluoro Aluminate | (CAS-No.) 138577-01-2 (EC-No.) 604-086-6 (REACH-no) 01-2120792839-30-XXXX | 1 – 20 | Eye Dam. 1, H318 STOT RE 2, H373 |
| Copper (Cu) substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB) | (CAS-No.) 7440-50-8 (EC-No.) 231-159-6 (REACH-no) 01-2119480154-42-XXXX | < 1 | Not classified |
| dichloromethane; methylene chloride substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB) | (CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3 | < 0.1 | Carc. 2, H351 |

4. First aid measures

4.1. Description of first aid measures

First-aid measures general: Get medical advice/attention if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects: Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: May cause irritation to skin.

Symptoms/effects after eye contact: Serious damage to eyes.

Symptoms/effects after ingestion: May cause irritation to the digestive tract.

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

Treat symptomatically. Call a doctor.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

| | |
|--|------------------------------|
| Fire hazard: | Not flammable. |
| Explosion hazard: | No direct explosion hazard. |
| Reactivity in case of fire: | Not known. |
| Hazardous decomposition products in case of fire: | Toxic fumes may be released. |

5.3. Advice for firefighters

| | |
|--|--|
| Precautionary measures fire: | Exercise caution when fighting any chemical fire. |
| Firefighting instructions: | Fight fire with normal precautions from a reasonable distance. |
| Protection during firefighting: | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|--------------------------|-----------------------------------|
| General measures: | Avoid contact with skin and eyes. |
|--------------------------|-----------------------------------|

6.1.1. For non-emergency personnel

| | |
|--|--|
| Protective equipment: | Do not attempt to take action without suitable protective equipment. Refer to section 8.2. |
| Emergency procedures: | Ventilate spillage area. Do not breathe fume, dust. Avoid contact with skin and eyes. |
| Measures in case of dust release: | Where excessive dust may result, use approved respiratory protection equipment. |

6.1.2. For emergency responders

| | |
|------------------------------|---|
| Protective equipment: | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures: | Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|-------------------|
| For containment: | Collect spillage. |
|-------------------------|-------------------|

| | |
|---------------------------------|--|
| Methods for cleaning up: | Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. |
|---------------------------------|--|

| | |
|---------------------------|---|
| Other information: | Dispose of materials or solid residues at an authorized site. |
|---------------------------|---|

6.4. Reference to other sections

| | |
|--|---|
| For further information refer to section 8: | "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations". |
|--|---|

7. Handling and storage

7.1. Precautions for safe handling

| | |
|---|---|
| Additional hazards when processed: | If dusts of this product are generated, avoid inhalation, skin and eye contact. |
|---|---|

| | |
|---------------------------------------|---|
| Precautions for safe handling: | Ensure good ventilation of the work station. Do not breathe vapours, gas, fume, dust. Avoid contact with skin and eyes. Wear personal protective equipment. |
|---------------------------------------|---|

| | |
|--------------------------|---|
| Hygiene measures: | Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
|--------------------------|---|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--------------------------------|---|
| Technical measures: | Does not require any specific or particular technical measures. |
| Storage conditions: | Store in a well-ventilated place. Keep cool. |
| Incompatible materials: | Strong acids. Strong bases. Strong oxidizing agents. |
| Storage area: | Store in a well-ventilated place. |
| Packaging materials: | Keep only in original container. |

7.3. Specific end use(s)

No additional information available.

8. Exposure controls/personal protection

8.1. Control parameters

| dichloromethane; methylene chloride (75-09-2) | | |
|--|-------------------------------|--|
| United Kingdom | Local Name | Dichloromethane |
| United Kingdom | WEL TWA (mg/m ³) | 353 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 706 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 200 ppm |
| United Kingdom | Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Aluminium (Al) (7429-90-5) | | |
| United Kingdom | Local Name | Aluminium |
| United Kingdom | WEL TWA (mg/m ³) | 2 mg/m ³ alkyl compounds, 2 mg/m ³ salts, soluble 10 mg/m ³ metal, inhalable dust 4 mg/m ³ metal, respirable dust |
| Copper (Cu) (7440-50-8) | | |
| United Kingdom | Local Name | Copper |
| United Kingdom | WEL TWA (mg/m ³) | 0.2 mg/m ³ fume (as Cu) 1 mg/m ³ and compounds, dusts and mists (as Cu) |
| United Kingdom | WEL STEL (mg/m ³) | 2 mg/m ³ and compounds, dusts and mists (as Cu) |

8.2. Exposure controls

| | |
|---|--|
| Appropriate engineering controls: | Ensure good ventilation of the work station. |
| Personal protective equipment: | Avoid all unnecessary exposure. PPE compliant to the recommended EN/ISO or equivalent standards should be selected. |
| Materials for protective clothing: | Wear suitable coveralls to prevent exposure to the skin. |
| Hand protection: | Protective gloves. When material is heated, wear thermal-insulated gloves to protect against burns. |
| Eye protection: | Chemical goggles or face shield. |
| Skin and body protection: | Wear suitable protective clothing. |
| Respiratory protection: | Wear appropriate mask. Where exposure through inhalation may occur from handling or use, respiratory protection equipment is required. Exposure limits for airborne contaminants must not be exceeded. |
| Environmental exposure controls: | Avoid release to the environment. |

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state: | Solid |
| Appearance: | Silver-gray alloy. Metallic wire, rod, strip |
| Colour: | Silver grey |
| Odour: | No data available |
| Odour threshold: | No data available |
| pH: | No data available |
| Relative evaporation rate (butylacetate=1): | No data available |
| Melting point: | No data available |
| Freezing point: | Not applicable |
| Boiling point: | No data available |
| Flash point: | Not applicable |
| Auto-ignition temperature: | Not applicable |
| Decomposition temperature: | No data available |
| Flammability (solid, gas): | Non flammable |
| Vapour pressure: | No data available |
| Relative vapour density at 20 °C: | No data available |
| Relative density: | No data available |
| Solubility: | No data available |
| Partition coefficient n-octanol/water (Log Pow): | No data available |
| Viscosity, kinematic: | Not applicable |
| Viscosity, dynamic: | No data available |
| Explosive properties: | No data available |
| Oxidising properties: | No data available |
| Explosive limits: | Not applicable |

9.2. Other information

No additional information available.

10. Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

dichloromethane; methylene chloride (75-09-2)

| | |
|-----------|-----------------------|
| LD50 oral | 2500 mg/kg bodyweight |
|-----------|-----------------------|

Cesium Tetrafluoro Aluminate (138577-01-2)

| | |
|-----------------|--------------|
| LD50 oral rat | ≥ 2000 mg/kg |
| LD50 dermal rat | ≥ 2000 mg/kg |

Copper (Cu) (7440-50-8)

| | |
|----------------------------|---|
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: other: MAFF 4200 (1985) |
| LC50 inhalation rat (mg/l) | > 5.11 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method) |

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified

12. Ecological information

12.1. Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

dichloromethane; methylene chloride (75-09-2)

| | |
|--------------------------------|--------------------|
| EC50 other aquatic organisms 1 | 244 mg/l waterflea |
|--------------------------------|--------------------|

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

dichloromethane; methylene chloride (75-09-2)

| | |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.25 |
|---|------|

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No additional information available.

13. Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional legislation (waste): | Disposal must be done according to official regulations. |
| Waste treatment methods: | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| 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. sorting instructions. |
| Ecology - waste materials: | Avoid release to the environment. |

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|----------------|----------------|----------------|----------------|
| 14.1. UN number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN number shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

14.6. Special precautions for user

| | |
|----------------------------------|----------------|
| Overland transport | Not applicable |
| Transport by sea | Not applicable |
| Air transport | Not applicable |
| Inland waterway transport | Not applicable |
| Rail transport | Not applicable |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. Other information

Issue Date: 12 - October - 2022

Version #: 01

Disclaimer:

All information in this Safety Data Sheet is believed to be accurate and reliable. However, no guarantee or warranty of any kind is made with regards to the accuracy of information or the suitability of the recommendations contained herein. It is the user's responsibility to assess the safety and toxicity of this product under their own conditions of use and to comply with all applicable laws and regulations.

Full text of H- and EUH-statements:

| | |
|------------|--|
| Carc. 2 | Carcinogenicity, Category 2. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1. |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2. |
| H318 | Causes serious eye damage. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

SDS EU (REACH Annex II) - Llewellyn

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.