

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 29 November 2017 Revision date: 17 October 2017 Version: 2.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture

Trade name : HANDY ONE® AL 822

Product code : A00000203
Product group : Trade product

1.2. Recommended use and restrictions on use

Recommended use : Alloys for brazing/soldering and other metallurgical processes

1.3. Supplier

Lucas-Milhaupt Toronto 290 Carlingview Drive M9W 5G1 Rexdale - Canada T +1 (416) 675-1860

LM SDSinfo@lucasmilhaupt.com - www.lucasmilhaupt.com

1.4. Emergency telephone number

Emergency number : CHEMTREC Within the USA and Canada: 1-800-424-9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Substances and Mixtures which, in contact with water, emit flammable gases, Category 2

Acute toxicity (oral), Category 4

H302

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400

Combustible Dust

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA)







Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : May form combustible dust concentrations in air

H261 - In contact with water releases flammable gases.

H302 - Harmful if swallowed. H400 - Very toxic to aquatic life.

Precautionary statements (GHS CA) : P223 - Do not allow contact with water.

P231+P232 - Handle under inert gas. Protect from moisture. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P302+P335+P334 - IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or

wrap in wet bandages. P330 - Rinse mouth.

P370+P378 - In case of fire: Use media other than water to extinguish.

P391 - Collect spillage.

P402+P404 - Store in a dry place. Store in a closed container.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Zinc	C.I. Pigment Black 16 / C.I. Pigment Metal 6 / Zinc (metallic) / Pigment Black 16	(CAS-No.) 7440-66-6	65 - 80	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
Aluminum cesium fluoride	Aluminium cesium fluoride	(CAS-No.) 138577-01-2	10 - 25	Not classified
Aluminum	Aluminium / Aluminium metal / Aluminium, metal / Aluminum metal / Aluminum, elemental / Aluminum, metal / C.I. 77000 / CI 77000 / Aluminum (metal) / Aluminium powder (stabilized) / Aluminium powder (stabilized) / Aluminium powder / Pigment Metal 1 / Aluminum powder	(CAS-No.) 7429-90-5	1 - 20	Water-react. 2, H261 Comb. Dust

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. 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. Rinse mouth.

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

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry powder. Foam. Water spray.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Water.

5.3. Specific hazards arising from the hazardous product

Fire hazard : Flammable solid. May form combustible dust concentrations in air.

5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.

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

6.3. Reference to other sections

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

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Handle under inert gas. Protect from moisture. Do not allow contact with water. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Avoid dust formation.

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

: Ground/bond container and receiving equipment.

Storage conditions

: Protect from moisture. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool. Protect from sunlight. Keep away from ignition sources. Store locked up. Keep container tightly closed.

2 mg/m³ (as ZnO)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Aluminum (7429-90-5)						
USA - ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (respirable particulate matter)				
USA - OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)				
Canada (Quebec)	VEMP (mg/m³)	10 mg/m³				
Alberta	OEL TWA (mg/m³)	10 mg/m³ (dust)				
British Columbia	OEL TWA (mg/m³)	1 mg/m³ (respirable)				
Manitoba	OEL TWA (mg/m³)	1 mg/m³ (respirable particulate matter)				
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (metal dust)				
Newfoundland & Labrador	OEL TWA (mg/m³)	1 mg/m³ (respirable particulate matter)				
Nova Scotia	OEL TWA (mg/m³)	1 mg/m³ (respirable particulate matter)				
Nunavut	OEL STEL (mg/m³)	20 mg/m³ (metal-dust)				
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (metal-dust)				
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³ (metal-dust)				
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (metal-dust)				
Ontario	OEL TWA (mg/m³)	1 mg/m³ (respirable)				
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m³ (respirable particulate matter)				
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (dust)				
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (dust)				
Zinc (7440-66-6)						

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

ACGIH TWA (mg/m3)

8.3. Individual protection measures/Personal protective equipment

Hand protection:

USA - ACGIH

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

: No data available Appearance Colour : No data available : No data available Odour Odour threshold No data available : No data available рΗ Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : No data available : Not applicable Freezing point Boiling point : No data available Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available

Flammability (solid, gas) : In contact with water releases flammable gases, Flammable solid.

Vapour pressure : No data available
Vapour pressure at 50 °C : No data available
Relative density : Not applicable
Solubility : No data available
Log Pow : No data available
Explosive limits : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : Flammable solid.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : In contact with water releases flammable gases.

Conditions to avoid : Water, humidity. Heat. No flames, no sparks. Eliminate all sources of ignition. Avoid contact

with hot surfaces. Avoid dust formation.

Incompatible materials : Acids

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Harmful if swallowed.

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

ATE CA (oral) 787.5 mg/kg bodyweight

	/=
Zinc	(7440-66-6)
0	(

LD50 oral rat 630 mg/kg
ATE CA (oral) 630 mg/kg bodyweight

 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

STOT-single exposure : Not classified

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: Not classified

STOT-repeated exposure

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after eye contact : Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life.

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Not classified

Zinc (7440-66-6)

EC50 96h algae (1) 0.11 - 0.271 mg/l (Species: Pseudokirchneriella subcapitata [static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

Aluminum cesium fluoride (138577-01-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Aluminum (7429-90-5)

Listed on the Canadian DSL (Domestic Substances List)

Zinc (7440-66-6)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

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Aluminum cesium fluoride (138577-01-2)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Aluminum (7429-90-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

Zinc (7440-66-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

SECTION 16: Other information

Date of issue : 29 November 2017 : 17 October 2017 Revision date

Full text of H-statements:

H261	In contact with water releases flammable gases.	
H302	Harmful if swallowed.	
H400	Very toxic to aquatic life.	

SDS Canada (GHS)

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.

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