



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017
Version: 3
Language: en-CA,US
Date of print: 10/Jan/2017

ZINC ALU

Material number 110020

Page: 1 of 15

1. Product and company identification

Product identifier

Trade name: ZINC ALU

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

General use: Technical aerosol

Details of the supplier of the safety data sheet

Company name: WEICON Inc.
Street/POB-No.: 20 Steckle Place, Unit 20
Postal Code, city: Kitchener, Ontario N2E 2C3, CA
WWW: www.weicon.ca
E-mail: info@weicon.ca
Telephone: +1-519-896-5252
Telefax: +1-519-896-5254
Dept. responsible for information:
Product-Safety-Department
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)

Transport:

TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Form: Aerosol
Color: silver gray
Odor: solvent-like
Classification: Flammable Aerosol 1; Compressed Gas; Eye Irritation 2A;
Specific Target Organ Toxicity (Single Exposure) 3; Aquatic toxicity - chronic 2;

Hazard symbols:



Signal word:

Danger

Hazard statements:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

ZINC ALU

Material number 110020

Page: 2 of 15

Precautionary statements: Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing vapors/spray.
Wash hands and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
Collect spillage.
Store in a well-ventilated place.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Higher doses may have a narcotic effect.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Potentially explosive mixtures may form if adequate ventilation is not provided.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: A mixture of: Synthetic resin-binder, solvents and pigments



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

ZINC ALU

Material number 110020

Page: 3 of 15

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 67-64-1	Acetone	15 - 20 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 141-78-6	Ethyl acetate	15 - 20 %	Flammable Liquid 2. Eye Irritation 2A. Specific Target Organ Toxicity (Single Exposure) 3.
CAS 1330-20-7	Xylene (isomeric mixture)	5 - 10 %	Flammable Liquid 3. Acute Toxicity 4 (dermal). Acute Toxicity 4 (inhalative). Skin Irritation 2.
CAS 7429-90-5	Aluminium powder (phlegmatized)	< 10 %	Flammable Solid 1. Water-reactive 2.
CAS 64742-95-6	Solvent naphtha (petroleum), light arom	2.5 - 10 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64742-48-9	Naphtha (petroleum), hydrotreated heavy	1 - 10 %	Aspiration Toxicity 1.
CAS 64742-82-1	Naphtha (petroleum), hydrodesulfurized, heavy, pure (boiling temperature: 150-195°C)	1 - 2.5 %	Flammable Liquid 3. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 7440-66-6	Zinc powder-zinc dust (stabilized)	0.25 - 2.5 %	Aquatic toxicity - acute 1. Aquatic toxicity - chronic 1.
CAS 106-97-8	Butane	20 - 25 %	Flammable Gas 1. Compressed Gas.
CAS 74-98-6	Propane	20 - 25 %	Flammable Gas 1. .

Additional information: Naphtha (petroleum), hydrotreated heavy: < 0,1% benzene
Naphtha (petroleum), hydrodesulfurized, heavy: < 0,1% benzene
Solvent naphtha (petroleum), light arom: < 0,1% benzene

4. First aid measures

General information: Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing.
Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After swallowing: Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 4 of 15

Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. May cause drowsiness or dizziness.
Inhalation causes narcotic effects/intoxication. Dizziness, fatigue, headache. May cause respiratory irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

-97 °C

Auto-ignition temperature: not determined

Suitable extinguishing media:

Alcohol resistant foam, extinguishing powder, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

Water

Specific hazards arising from the chemical

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Heating will lead to pressure increase: Danger of bursting and explosion. Cool exposed containers with water spray.

May form dangerous gases and vapours in case of fire. Metal oxide smoke, carbon monoxide and carbon dioxide.

Potentially explosive vapor/air mixtures may form.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion. Cool exposed containers with water spray.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with the substance. Eliminate all ignition sources if safe to do so. Wear appropriate protective equipment. Keep unprotected people away. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Cordon off downwind area at risk and warn inhabitants.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

In case of release, notify competent authorities. Danger of explosion!

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

ZINC ALU

Material number 110020

Page: 5 of 15

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray.
Avoid contact with skin and eyes. Wear appropriate protective equipment.
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Take off immediately all contaminated clothing and wash it before reuse.

Precautions against fire and explosion:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

Storage

Requirements for storerooms and containers:
Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Store containers in upright position. Explosion protection required. Store locked up.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017
Version: 3
Language: en-CA,US
Date of print: 10/Jan/2017

Page: 6 of 15

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	Canada, Alberta: OEL 15 min	1800 mg/m ³ ; 750 ppm
		Canada, Alberta: OEL 8 hour	1200 mg/m ³ ; 500 ppm
		Canada, BC: OEL STEL	500 ppm
		Canada, BC: OEL TWA	250 ppm
		Canada, Québec: VECD	2380 mg/m ³ ; 1000 ppm
		Canada, Québec: VEMP	1190 mg/m ³ ; 500 ppm
		USA: ACGIH: STEL	500 ppm
		USA: ACGIH: TWA	250 ppm
		USA: NIOSH: TWA	590 mg/m ³ ; 250 ppm
		USA: OSHA: TWA	2400 mg/m ³ ; 1000 ppm
141-78-6	Ethyl acetate	Canada, Alberta: OEL 8 hour	1440 mg/m ³ ; 400 ppm
		Canada, BC: OEL TWA	150 ppm
		Canada, Québec: VEMP	1440 mg/m ³ ; 400 ppm
		USA: ACGIH: TWA	1440 mg/m ³ ; 400 ppm
		USA: NIOSH: TWA	1400 mg/m ³ ; 400 ppm
		USA: OSHA: TWA	1400 mg/m ³ ; 400 ppm
1330-20-7	Xylene (isomeric mixture)	Canada, BC: OEL STEL	150 ppm
		Canada, BC: OEL TWA	100 ppm
		USA: OSHA: TWA	435 mg/m ³ ; 100 ppm
7429-90-5	Aluminium powder (phlegmatized)	Canada, Alberta: OEL 8 hour	10 mg/m ³ (Metal Dust)
		Canada, Alberta: OEL 8 hour	5 mg/m ³ (Pyro powders, calculated as Al)
		Canada, BC: OEL TWA	1 mg/m ³
		Canada, Québec: VEMP	10 mg/m ³ Metals
		NIOSH: Ceiling	5 mg/m ³ (inhalable fraction)
		USA: ACGIH: TWA	1 mg/m ³
		USA: NIOSH: TWA	10 mg/m ³ (inhalable fraction)
		USA: NIOSH: TWA	5 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	15 mg/m ³ (inhalable fraction)
		USA: OSHA: TWA	5 mg/m ³ (respirable fraction)
106-97-8	Butane	Canada, Alberta: OEL 8 hour	1000 ppm
		Canada, BC: OEL STEL	750 ppm
		Canada, BC: OEL TWA	600 ppm
		Canada, Ontario: OEL TWA	800 ppm
		Canada, Québec: VEMP	1900 mg/m ³ ; 800 ppm
		USA: ACGIH: TWA	2370 mg/m ³ ; 1000 ppm
		USA: NIOSH: TWA	1900 mg/m ³ ; 800 ppm
		USA: NIOSH: TWA	1900 mg/m ³ ; 800 ppm
74-98-6	Propane	Canada, Alberta: OEL 8 hour	1000 ppm
		Canada, Québec: VEMP	1800 mg/m ³ ; 1000 ppm
		USA: NIOSH: TWA	1800 mg/m ³ ; 1000 ppm
		USA: OSHA: TWA	1800 mg/m ³ ; 1000 ppm



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 7 of 15

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
67-64-1	Acetone	USA: ACGIH-BEI, urine	25 mg/L	acetone	end of exposure or end of shift
1330-20-7	Xylene (isomeric mixture)	USA: ACGIH-BEI, urine	1.5 g/g creatinine	Methylhippuric acids	end of exposure or end of shift

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.
See also information in chapter 7, section storage.

Personal protection equipment (PPE)

- Eye/face protection:** Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Skin protection:** Flame retardant, antistatic and chemical resistant protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138 (Solvent resistant protective gloves).
Glove material: Butyl caoutchouc (butyl rubber) - Layer thickness: 0.7 mm
Breakthrough time: < 480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection:** Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.
The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product.
If higher concentrations occur: Wear self-contained breathing apparatus.
- General hygiene considerations:**
Use only non-sparking tools. Do not pierce or burn, even after use. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Do not breathe gas/vapor/spray. Avoid contact with skin and eyes.
Take off immediately all contaminated clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

- Appearance:** Physical state at 20 °C and 101.3 kPa: liquid
Form: Aerosol
Color: silver gray
- Odor:** solvent-like
- Odor threshold:** No data available
- pH value:** No data available
- Melting point/freezing point:** No data available
- Initial boiling point and boiling range:** -44 °C
- Flash point/flash point range:** -97 °C
- Evaporation rate:** No data available
- Flammability:** extremely flammable aerosol
- Explosion limits:** LEL (Lower Explosion Limit): not determined
UEL (Upper Explosive Limit): not determined



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

ZINC ALU

Material number 110020

Page: 8 of 15

Vapor pressure:	not determined
Vapor density:	not determined
Density:	not determined
Solubility:	not determined
Water solubility:	not determined
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not determined
Thermal decomposition:	No decomposition when used properly.
Viscosity, dynamic:	not determined
Viscosity, kinematic:	not determined
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	not determined

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	Contains gas under pressure; may explode if heated.
Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Incompatible materials:	Do not store together with combustible or self-igniting materials or any highly flammable solids.
Hazardous decomposition products:	May form dangerous gases and vapours in case of fire. Metal oxide smoke, carbon monoxide and carbon dioxide
Thermal decomposition:	No decomposition when used properly.



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017
Version: 3
Language: en-CA,US
Date of print: 10/Jan/2017

ZINC ALU

Material number 110020

Page: 9 of 15

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
Acute toxicity (oral): Based on available data, the classification criteria are not met.
Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2000 mg/kg.
Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 20 mg/L.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Eye damage/irritation: Eye Irritation 2A = Causes serious eye irritation.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Zinc powder-zinc dust (stabilized):
LD50, Rat, oral: > 2000 mg/kg
Information about Xylene:
LD50, dermal: 1100 mg/kg
Information about Aluminium powder (phlegmatized):
LC50, Rat, inhalative: > 5 mg/L/4h
For carcinogenic effects:
Information about Xylene (isomeric mixture):
IARC Rating: Group 3
OSHA Carcinogen: not listed
NTP Rating: not listed

Symptoms

After contact with skin:
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 10 of 15

Additional ecological information

Volatile organic compounds (VOC):

87.1 % by weight = 622.8 g/L

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Spray can must be completely empty for proper waste disposal.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.1
Labels: 2.1
Special provisions: N82
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail: 75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1950
Shipping name: UN 1950, AEROSOLS
TDG class: 2.1
Special provisions: 80, 107
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 75 L



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

ZINC ALU

Material number 110020

Page: 11 of 15

Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2.1, Subrisk-
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381,959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: yes
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
Class or division, Subsidiary risk: Class 2.1
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L

15. Regulatory information

National regulations - Canada

No data available



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 12 of 15

National regulations - U.S. Federal Regulations

Acetone:	TSCA Inventory: listed TSCA HPVC: not listed Clean Air Act: SOCMI Chemical: yes Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U002 RCRA Groundwater Monitoring: Methods 8240 / PQL 100 NIOSH Recommendations: Occupational Health Guideline: 0004*
Ethyl acetate:	TSCA Inventory: listed; EPA flags T TSCA HPVC: not listed Other Environmental Laws: CERCLA: RQ 5000 lbs. RCRA Hazardous Wastes: Code U112 NIOSH Recommendations: Occupational Health Guideline: 0260
Xylene (isomeric mixture):	TSCA Inventory: listed TSCA HPVC: not listed Carcinogen Status: IARC Rating: Group 3 OSHA Carcinogen: not listed NTP Rating: not listed Clean Air Act: Hazardous Air Pollutants: Code XO SOCMI Chemical: yes Clean Water Act: Hazardous Substances: RQ 100 lbs. Other Environmental Laws: CERCLA: RQ 100 lbs. RCRA Hazardous Wastes: Code U239 RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 5, 5 SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard
Aluminium powder (phlegmatized):	TSCA Inventory: listed TSCA HPVC: not listed Other Environmental Laws: SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0022
Naphtha (petroleum), hydrotreated heavy:	TSCA Inventory: listed; UVCB TSCA HPVC: not listed
Naphtha (petroleum), hydrodesulfurized, heavy, pure (boiling temperature: 150-195°C):	TSCA Inventory: listed; EPA flags XU TSCA HPVC: not listed CFR 49: § 172.101 Cl.3 UN-Nr. 1268



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 13 of 15

Zinc powder-zinc dust (stabilized):

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Water Act:
Priority Pollutant: yes
Other Environmental Laws:
CERCLA: RQ 1000* lbs.
RCRA Groundwater Monitoring: Methods 6010, 7950 / PQL
20, 50
SARA Title III Section 313, Toxic Release: Conc. 1.0% /
Threshold Standard

Butane:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis
for listing = f
NIOSH Recommendations:
Occupational Health Guideline: 0068*

Propane:

TSCA Inventory: listed
TSCA HPVC: not listed
Clean Air Act:
Accidental Release Prevention: Threshold 10000 lbs. / Basis
for listing = f
NIOSH Recommendations:
Occupational Health Guideline: 0524



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 14 of 15

National regulations - U.S. State Regulations

Acetone:

California Prop 65 List: None
Delaware Air Quality Management List:
DRQ: 5000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585: AAC: 89 - EL: 119 - OEL: 1780
Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9
Minnesota Haz. Substance:
Codes: AON - Ratings: 7.16 - Status: Title III
New York List of Hazardous Substances:
RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 750 ppm - 1800 mg - STEL: 1000 ppm - 2400 mg

Ethyl acetate:

Delaware Air Quality Management List:
DRQ: 5000 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585: AAC: 70 - EL: 93,3 - OEL: 1400 - Title 586: -
Main Hazardous Air Pollutants:
Me 2005: HAP - Hap Rpt: 20000
Massachusetts Haz. Substance codes: 2,4,5,6 F8
Minnesota Haz. Substance:
Codes: AO - Ratings: 6.83 - Status: Title III.
New York List of Hazardous Substances:
RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 400 ppm - 1400 mg

Xylene (isomeric mixture):

Delaware Air Quality Management List:
DRQ: 100 - RQ State: Federal Regulations Apply
Idaho Air Pollutant List:
Title 585 -- Title 586 --
Maine Hazardous Air Pollutants:
Me 2005: HAP - Hap Rpt: 2000
Massachusetts Haz. Substance codes: 2,4 F8 F9
Michigan Critical Material:
Note: - CMR: 44 - Parameter: 01330-20-7 - Annual Usage Parameter: 100
Minnesota Haz. Substance:
Codes: ANO - Ratings: 8.77 - Status: Air Pollutant. Title III.
TRI.
New Jersey RTK Hazardous Substance:
DOT: 1307 - Sub No.: 2014 - TPQ: -
New York List of Hazardous Substances:
RQ -- Air: 1000 - RQ -- Land: 1 - Note: No Note Associated with this chemical.
Pennsylvania Haz. Substance code: E
Washington Air Contaminant:
TWA: 100 ppm / 435 mg - STEL: 150 ppm / 655 mg



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

ZINC ALU

Material number 110020

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Page: 15 of 15

Butane:

Delaware Air Quality Management List:
 DRQ: F 1000** - RQ State: State requirements differs from Federal
 Massachusetts Haz. Substance codes: 4,5,6
 Minnesota Haz. Substance:
 Codes: A - Ratings: - - Status: Title III
 New Jersey RTK Hazardous Substance:
 DOT: 1011 - Sub No.: 0273 - TPQ: -
 Pennsylvania Haz. Substance code: -
 Washington Air Contaminant:
 TWA: 800 ppm - 1900 mg

Propane:

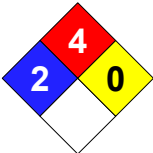
California Proposition 65 code: -
 Delaware Air Quality Management List:
 DRQ: F 1000** - RQ State: State requirements differs from Federal
 Massachusetts Haz. Substance codes: 2,4,5,6
 Minnesota Haz. Substance:
 Codes: AP - Ratings: - - Status: Title III
 New Jersey RTK Hazardous Substance:
 DOT: 1978 - Sub No.: 1594 - TPQ: -
 Pennsylvania Haz. Substance code: -
 Washington Air Contaminant:
 TWA: 1000 ppm - 1800 mg

16. Other information

Text for labeling:

Contains 15 - 20 % Acetone, 15 - 20 % Ethyl acetate, 5 - 10 % Xylene (isomeric mixture), < 10 % Aluminium powder (phlegmatized), 2.5 - 10 % Solvent naphtha (petroleum), light arom, 1 - 10 % Naphtha (petroleum), hydrotreated heavy, 1 - 2.5 % Naphtha (petroleum), hydrodesulfurized, heavy, pure (boiling temperature: 150-195°C), 0.25 - 2.5 % Zinc powder-zinc dust (stabilized), 20 - 25 % Butane, 20 - 25 % Propane. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:
 Health: 2 (Moderate)
 Fire: 4 (Severe)
 Reactivity: 0 (Minimal)

HMIS Version III Rating:
 Health: 2 (Moderate)
 Flammability: 4 (Severe)
 Physical Hazard: 0 (Minimal)
 Personal Protection: X = Consult your supervisor

HEALTH	2
FLAMMABILITY	4
PHYSICAL HAZARD	0
	X

Reason of change:

ADR/RID 2017, IMDG 2017

Date of first version:

21/Oct/2015

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.