

## Safety Data Sheet

### 1. Identification

#### 1.1. Product identifier

Code: Z358/USA  
 Product name: Lamellar 98 % zinc  
 Chemical name and synonym: Protective zinc

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

Intended use: Metallic Coating (MCP) 1.25 MAX MIR.

Identified Uses	Industrial	Professional	Consumer
Industrial Use	✓	-	-
Professional Use	-	✓	-

#### 1.3. Details of the supplier of the safety data sheet

Name: AMBRO-SOL S.R.L.  
 Full address: Via per Pavone del Mella n.21  
 District and Country: 25020 Cigole (BS)  
 Italia

Tel. +39 030 9959674

Fax +39 030 959265

e-mail address of the competent person  
 responsible for the Safety Data Sheet

quality@ambro-sol.com

#### 1.4. Emergency telephone number

For urgent inquiries refer to

American Association of Poison Control Centers: +1 (800) 222-1222

### 2. Hazards identification

**Note:** This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

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

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement

Hazard pictograms:

Aerosol, category 1

Extremely flammable aerosol.

Pressurised gas

Contains gas under pressure; may burst if heated.

Aspiration hazard, category 1

May be fatal if swallowed and enters airways.

Skin irritation, category 2

Causes skin irritation.

Specific target organ toxicity - single exposure, category 3

May cause drowsiness or dizziness.



Signal words:

Danger

Hazard statements:

- H222** Extremely flammable aerosol.
- H280** Contains gas under pressure; may burst if heated.
- H304** May be fatal if swallowed and enters airways.
- H315** Causes skin irritation.
- H336** May cause drowsiness or dizziness.

Precautionary statements:

Prevention:

- P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211** Do not spray on an open flame or other ignition source.
- P251** Do not pierce or burn, even after use.
- P261** Avoid breathing dust / fume / gas / mist / vapours / spray.
- P280** Wear protective gloves.
- P271** Use only outdoors or in a well-ventilated area.
- P264** Wash hands thoroughly after handling.

Response:

- P312** Call a POISON CENTER / doctor / . . . / if you feel unwell.
- P332+P313** If skin irritation occurs: Get medical advice / attention.
- P304+P340** IF INHALED: remove person to fresh air and keep comfortable for breathing.
- P302+P352** IF ON SKIN: wash with plenty of water / . . .
- P362+P364** Take off contaminated clothing and wash it before reuse.

Storage:

- P410+P412** Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
- P410+P403** Protect from sunlight. Store in a well-ventilated place.
- P403+P233** Store in a well-ventilated place. Keep container tightly closed.
- P405** Store locked up.

Disposal:

- P501** Dispose of contents / container in compliance with current regulations.

**2.2. Other hazards**

Environmental classification as for Reg. (EU) 1272/2008 (CLP):

The product is classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

Classification and Hazard Statement

Hazardous to the aquatic environment, chronic toxicity, category 2

Toxic to aquatic life with long lasting effects.

Hazard pictograms:



## Hazard statements:

**H411** Toxic to aquatic life with long lasting effects.

## Precautionary statements:

## Prevention:

**P273** Avoid release to the environment.

## Response:

**P391** Collect spillage.

## Storage:

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## Disposal:

**P501** Dispose of contents / container in compliance with current regulations.

## Additional hazards

Information not available

### 3. Composition/information on ingredients

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Identification	Conc. %	Classification:
<b>PROPANE</b>		
CAS 74-98-6	21.66	Flammable gas, category 1 H220, Liquefied gas H280
EC 200-827-9		
INDEX 601-003-00-5		
<b>Hydrocarbons, C6, isoalkanes</b>		
CAS 64742-49-0	13.47	Flammable liquid, category 2 H225, Aspiration hazard, category 1 H304, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H336, Hazardous to the aquatic environment, chronic toxicity, category 2 H411
EC 265-151-9		
INDEX 649-328-00-1		
<b>Dimethyl carbonate</b>		
CAS 616-38-6	10.5	Flammable liquid, category 2 H225
EC 210-478-4		
INDEX 607-013-00-6		
<b>XYLENE (MIXTURE OF ISOMERS)</b>		
CAS 1330-20-7	9.94	Flammable liquid, category 3 H226, Acute toxicity, category 4 H312, Acute toxicity, category 4 H332, Skin irritation, category 2 H315
EC 215-535-7		

INDEX 601-022-00-9

**BUTANE**

CAS 106-97-8 9.28 Flammable gas, category 1 H220, Liquefied gas H280

EC 203-448-7

INDEX 601-004-00-0

**TALC**

CAS 69012-64-2 5.25 Acute toxicity, category 4 H332, Specific target organ toxicity - single exposure, category 3 H335

EC 273-761-1

INDEX 606-005-00-X

**N-BUTYL ACETATE**

CAS 123-86-4 4.7 Flammable liquid, category 3 H226, Specific target organ toxicity - single exposure, category 3 H336

EC 204-658-1

INDEX 607-025-00-1

**Aluminium powder (stabilised)**

CAS 7429-90-5 2.9 Flammable solid, category 1 H228, Substance or mixture which in contact with water emits flammable gas, category 2 H261

EC 231-072-3

INDEX 013-002-00-1

**Zinc powder (stabilised)**

CAS 7440-66-6 1.66 Hazardous to the aquatic environment, acute toxicity, category 1 H400 M=10, Hazardous to the aquatic environment, chronic toxicity, category 1 H410 M=10

EC 231-175-3

INDEX 030-001-01-9

**ETHYL ACETATE**

CAS 141-78-6 1.63 Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H336

EC 205-500-4

INDEX 607-022-00-5

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 30.94 %

## 4. First-aid measures

### 4.1. Description of first aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

**INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

**5. Fire-fighting measures****5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

**6.2. Environmental precautions**

Do not disperse in the environment.

**6.3. Methods and material for containment and cleaning up**

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**7. Handling and storage****7.1. Precautions for safe handling**

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

**7.3. Specific end use(s)**

Information not available

**8. Exposure controls/personal protection**

**8.1. Control parameters**

Regulatory References:

USA	NIOSH-REL	NIOSH publication No. 2005-149, 3th printing, 2007.
USA	OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
USA	CAL/OSHA-PEL	California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2018

**PROPANE**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-		1000		
OSHA	USA	1800	1000		
CAL/OSHA	USA	1800	1000		
NIOSH	USA	1800	1000		

**Hydrocarbons, C6, isoalkanes**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	0	0	72	0

**XYLENE (MIXTURE OF ISOMERS)**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	434	100	651	150
OEL	EU	221	50	442	100 SKIN
OSHA	USA	435	100		
CAL/OSHA	USA	435	100	655 (C)	3000 (C)

**BUTANE**

**Threshold Limit Value**

**AMBRO-SOL S.R.L.**

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Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-		1000		
CAL/OSHA	USA	1.9	800		
NIOSH	USA	1900	800		

**TALC****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	2			

**N-BUTYL ACETATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	713	150	950	200
OSHA	USA	710	150		
CAL/OSHA	USA	710	150	950	200
NIOSH	USA	710	150	950	200

**Aluminium powder (stabilised)****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	1	0.9		
OSHA	USA	5			
NIOSH	USA	10			INHAL
NIOSH	USA	5			RESP

**ETHYL ACETATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	1441	400		
OEL	EU	734	200	1468	400
OSHA	USA	1400	400		
CAL/OSHA	USA	1.4	400		
NIOSH	USA	1400	400		

**QUARTZ****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH	-	0.025			
OSHA	USA	30			INHAL
OSHA	USA	10			RESP

CAL/OSHA	USA	0.3	INHAL
CAL/OSHA	USA	0.1	RESP
NIOSH	USA	0.05	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

TLV of solvent mixture: 531 mg/m3

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

**HAND PROTECTION**

None required.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (OSHA 29 CFR 1910.133).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a NIOSH certified combined filter should be worn (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

**9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	aerosol
Colour	light grey
Odour	characteristic of solvent
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	< 0 °C
Evaporation Rate	Not available
Flammability of solids and gases	flammable gas
Lower inflammability limit	Not available
Upper inflammability limit	Not available



Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	20°C 0,70 ÷ 0,74 g/ml
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	not applicable
Oxidising properties	not applicable

**9.2. Other information**

Total solids (250°C / 482°F)	28,82 %
VOC :	72,90 % - 1.22 MAX MIR

**10. Stability and reactivity**

**10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

N-BUTYL ACETATE

Decomposes on contact with: water.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

Dimethyl carbonate

May form explosive mixtures with: air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

Aluminium powder (stabilised)

Develops hydrogen on contact with: water.

Develops hydrogen on contact with: acids,alkalis,halogens,oxidising agents.

Zinc powder (stabilised)

Risk of explosion on contact with: ammonium nitrate,ammonium sulphide,barium peroxide,lead nitride,chlorates,chromium trioxide,sodium hydroxide,oxidising agents,performic acid,acids,tetrachloromethane,water.May react dangerously with: alkaline hydroxides,bromine pentafluoride,calcium chloride,fluorine,hexachloroethane,nitrobenzene,potassium dioxide,carbon disulphide,silver.Reacts with: strong acids,strong alkalis.May develop: hydrogen.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

#### 10.4. Conditions to avoid

Avoid overheating.

N-BUTYL ACETATE

Avoid exposure to: moisture,sources of heat,naked flames.

Zinc powder (stabilised)

Avoid exposure to: heat,moisture.

ETHYL ACETATE

Avoid exposure to: light,sources of heat,naked flames.

#### 10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

Dimethyl carbonate

Avoid contact with: oxidising agents,strong reducing agents.

N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc.

Zinc powder (stabilised)

Incompatible with: water,acids,strong alkalis.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

#### 10.6. Hazardous decomposition products

Information not available

## 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Information not available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

#### Interactive effects

Information not available

#### ACUTE TOXICITY

Zinc powder (stabilised)

LD50 (Oral) > 2000 mg/kg bw rat

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

## PROPANE

LC50 (Inhalation) 800000 ppm 15 min

## N-BUTYL ACETATE

LD50 (Oral) > 6400 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

LC50 (Inhalation) 21.1 mg/l/4h Rat

## Hydrocarbons, C6, isoalkanes

LD50 (Oral) 3790 mg/kg bw rat

LD50 (Dermal) 3500 mg/kg bw rabbit

LC50 (Inhalation) 34.73 mg/l/4h air (rat)

## Dimethyl carbonate

LD50 (Oral) 5000 mg/kg/bw rat

LD50 (Dermal) 2000 mg/kg/ bw rabbit

LC50 (Inhalation) 5.36 mg/l/4h rat

## Hydrocarbon resin

LD50 (Oral) > 50000 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Carcinogenicity Assessment:

1330-20-7XYLENE (MIXTURE OF ISOMERS)

ACGIH:: A4

IARC:3

69012-64-2TALC

ACGIH:: A1

7429-90-5Aluminium powder (stabilised)

ACGIH:: A4

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

## 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.

### 12.1. Toxicity

Zinc powder (stabilised)

LC50 - for Fish 112 µg/l/96h

EC50 - for Crustacea 155 µg/l/48h

Chronic NOEC for Fish 720 µg/l 84 days

Chronic NOEC for Crustacea 300 µg/l 3 months

Chronic NOEC for Algae / Aquatic Plants 20 µg/l 4 days

Hydrocarbons, C6, isoalkanes

LC50 - for Fish 8.41 mg/l/96h

EC50 - for Crustacea 4.7 mg/l/48h

EC50 - for Algae / Aquatic Plants 15.65 mg/l/72h

Chronic NOEC for Algae / Aquatic Plants 6.47 mg/l

Dimethyl carbonate

LC50 - for Fish 1134 mg/l/96h 4 days

EC50 - for Crustacea > 80 mg/l/48h

EC50 - for Algae / Aquatic Plants	> 70 mg/l/72h
Chronic NOEC for Fish	100 mg/l 4 days
Chronic NOEC for Crustacea	25 mg/l 21 days
Chronic NOEC for Algae / Aquatic Plants	> 50 mg/l 72 h

**12.2. Persistence and degradability**

**PROPANE**

Global Warming Potential (GWP): 3. Ozone Depletion Potential (ODP): 0.

**Aluminium powder (stabilised)**

Solubility in water 0 mg/l

Degradability: information not available

**Zinc powder (stabilised)**

Solubility in water 0.1 - 100 mg/l

Degradability: information not available

**XYLENE (MIXTURE OF ISOMERS)**

Solubility in water 100 - 1000 mg/l

Degradability: information not available

**TALC**

Solubility in water < 0.1 mg/l

**BUTANE**

Solubility in water 0.1 - 100 mg/l

Rapidly degradable

**PROPANE**

Solubility in water 0.1 - 100 mg/l

Rapidly degradable

**ETHYL ACETATE**

Solubility in water > 10000 mg/l

Rapidly degradable

**N-BUTYL ACETATE**

Solubility in water 1000 - 10000 mg/l

**Hydrocarbons, C6, isoalkanes**

Rapidly degradable

**Dimethyl carbonate**

Rapidly degradable

Hydrocarbon resin

Degradability: information not available

### 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3.12

BCF 25.9

BUTANE

Partition coefficient: n-octanol/water 1.09

PROPANE

Partition coefficient: n-octanol/water 1.09

ETHYL ACETATE

Partition coefficient: n-octanol/water 0.68

BCF 30

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2.3

BCF 15.3

### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2.73

N-BUTYL ACETATE

Partition coefficient: soil/water < 3

Hydrocarbons, C6, isoalkanes

Partition coefficient: soil/water 1.78

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects

Information not available

## 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA).

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not puncture or incinerate containers, even empty. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution

**14. Transport information**

**14.1. UN number**

ADR / RID, IMDG, 1950  
IATA:

**14.2. UN proper shipping name**

ADR / RID: AEROSOLS  
IMDG: AEROSOLS (Hydrocarbons, C6, isoalkanes)  
IATA: AEROSOLS, FLAMMABLE

**14.3. Transport hazard class(es)**

ADR / RID: Class: 2 Label: 2.1



IMDG: Class: 2 Label: 2.1



IATA: Class: 2 Label: 2.1



**14.4. Packing group**

ADR / RID, IMDG, -  
IATA:

**14.5. Environmental hazards**

ADR / RID: Environmentally Hazardous



IMDG: Marine Pollutant



IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

**14.6. Special precautions for user**

ADR / RID: HIN - Kemler: --

Limited  
Quantities: 1  
L

Tunnel  
restriction  
code: (D)

IMDG: Special Provision: -

EMS: F-D, S-U

Limited  
Quantities: 1  
L



IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 203
	Pass.:	Maximum quantity: 75 Kg	Packaging instructions: 203
	Special Instructions:	A145, A167, A802	

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

Information not relevant

**15. Regulatory information**

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

U.S. Federal Regulations

TSCA:

Clean Air Act Section 112(b):

1330-20-7 XYLENE (MIXTURE OF ISOMERS)

Clean Air Act Section 602 Class I Substances:

No component(s) listed.

Clean Air Act Section 602 Class II Substances:

No component(s) listed.

Clean Water Act –  
Priority Pollutants:

7440-66-6 Zinc powder (stabilised) (Zinc compounds)

Clean Water Act –  
Toxic Pollutants:

7440-66-6 Zinc powder (stabilised) (Zinc compounds)

DEA List I Chemicals (Precursor Chemicals):

No component(s) listed.

DEA List II Chemicals (Essential Chemicals):

No component(s) listed.

EPA List of Lists:

313 Category Code:

**Z358/USA - Lamellar 98 % zinc**

1330-20-7 XYLENE (MIXTURE OF ISOMERS)  
 7429-90-5 Aluminium powder (stabilised)  
 (Aluminum compounds, Aluminun  
 dust)  
 7440-66-6 Zinc powder (stabilised) (Zinc  
 compounds)

EPCRA 302 EHS TPQ:

No component(s) listed.

EPCRA 304 EHS RQ:

No component(s) listed.

CERCLA RQ:

1330-20-7 XYLENE (MIXTURE OF ISOMERS)  
 123-86-4 N-BUTYL ACETATE  
 7440-66-6 Zinc powder (stabilised) (Zinc  
 compounds)  
 141-78-6 ETHYL ACETATE

EPCRA 313 TRI:

1330-20-7 XYLENE (MIXTURE OF ISOMERS)  
 7429-90-5 Aluminium powder (stabilised)  
 (Aluminum compounds, Aluminun  
 dust)  
 7440-66-6 Zinc powder (stabilised) (Zinc  
 compounds)

RCRA Code:

1330-20-7 XYLENE (MIXTURE OF ISOMERS)  
 141-78-6 ETHYL ACETATE

CAA 112 (r) RMP TQ:

74-98-6 PROPANE (Alkanes, Alkanes  
 (aliphatic hydrocarbon alkanes, C1-  
 C4))  
 106-97-8 BUTANE (Alkanes)

State Regulations

Massachussets:

74-98-6 PROPANE (Alkanes, Alkanes  
 (aliphatic hydrocarbon alkanes, C1-  
 C4))  
 616-38-6 Dimethyl carbonate  
 1330-20-7 XYLENE (MIXTURE OF ISOMERS)  
 106-97-8 BUTANE (Alkanes)  
 69012-64-2 TALC  
 123-86-4 N-BUTYL ACETATE  
 7429-90-5 Aluminium powder (stabilised)  
 (Aluminum compounds, Aluminun  
 dust)  
 7440-66-6 Zinc powder (stabilised) (Zinc  
 compounds)

141-78-6

ETHYL ACETATE

Minnesota:

74-98-6

PROPANE (Alkanes, Alkanes  
(aliphatic hydrocarbon alkanes, C1-  
C4))

1330-20-7

XYLENE (MIXTURE OF ISOMERS)

106-97-8

BUTANE (Alkanes)

69012-64-2

TALC

123-86-4

N-BUTYL ACETATE

7429-90-5

Aluminium powder (stabilised)  
(Aluminum compounds, Aluminun  
dust)

141-78-6

ETHYL ACETATE

New Jersey:

74-98-6

PROPANE (Alkanes, Alkanes  
(aliphatic hydrocarbon alkanes, C1-  
C4))

616-38-6

Dimethyl carbonate

1330-20-7

XYLENE (MIXTURE OF ISOMERS)

106-97-8

BUTANE (Alkanes)

69012-64-2

TALC

123-86-4

N-BUTYL ACETATE

7429-90-5

Aluminium powder (stabilised)  
(Aluminum compounds, Aluminun  
dust)

7440-66-6

Zinc powder (stabilised) (Zinc  
compounds)

141-78-6

ETHYL ACETATE

New York:

1330-20-7

XYLENE (MIXTURE OF ISOMERS)

123-86-4

N-BUTYL ACETATE

7440-66-6

Zinc powder (stabilised) (Zinc  
compounds)

141-78-6

ETHYL ACETATE

Pennsylvania:

74-98-6

PROPANE (Alkanes, Alkanes  
(aliphatic hydrocarbon alkanes, C1-  
C4))

616-38-6

Dimethyl carbonate

1330-20-7

XYLENE (MIXTURE OF ISOMERS)

106-97-8

BUTANE (Alkanes)

123-86-4

N-BUTYL ACETATE

7429-90-5

Aluminium powder (stabilised)  
(Aluminum compounds, Aluminun  
dust)

7440-66-6

Zinc powder (stabilised) (Zinc  
compounds)

141-78-6

ETHYL ACETATE

California:

1330-20-7

XYLENE (MIXTURE OF ISOMERS)

106-97-8	BUTANE (Alkanes)
123-86-4	N-BUTYL ACETATE
7429-90-5	Aluminium powder (stabilised) (Aluminum compounds, Aluminum dust)
7440-66-6	Zinc powder (stabilised) (Zinc compounds)
141-78-6	ETHYL ACETATE

Proposition 65:International RegulationsSubstances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Canadian WHMIS

Information not available

**16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H280	Contains gas under pressure; may burst if heated.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 © RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112©)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

**GENERAL BIBLIOGRAPHY:**

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Communication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112© of the Clean Air Act
- Massachusetts 105 CMR Department of public health 670.000: "Right to Know"
- Minnesota Chapter 5206 Department Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.