



## Safety Data Sheet ZINCO BRILLANTE SPRAY

Safety Data Sheet dated 13/12/2012, version 1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier  
Mixture identification:  
Trade name: ZINCO BRILLANTE SPRAY  
Trade code: 70.0080
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
- 1.3. Details of the supplier of the safety data sheet  
Company:  
ARECO ITALIA SPA Via Dell'Industria 72/74 20083 Vigano di Gaggiano (MI)  
ARECO ITALIA SPA TEL. +39 029085372 - +39 029086270  
Competent person responsible for the safety data sheet:  
info@arecoitalia.it
- 1.4. Emergency telephone number  
ARECO ITALIA SPA TEL. +39 029085372 - +39 029086270

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:  
Properties / Symbols:  
F+ Extremely flammable  
R Phrases:  
R12 Extremely flammable.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

Adverse physicochemical, human health and environmental effects:  
No other hazards

#### 2.2. Label elements



- Symbols:  
F+ Extremely flammable
- R Phrases:  
R12 Extremely flammable.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.
- S Phrases:  
S16 Keep away from sources of ignition - No smoking.  
S2 Keep out of reach of children.  
S23 Do not breathe spray.  
S43 In case of fire, use vaporized water or foam.  
S51 Use only in well-ventilated areas.  
S51 Use only in well-ventilated areas.  
S9 Keep container in a well-ventilated place.

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#### Special Provisions:

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of reach of children.

#### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

#### Other Hazards:

No other hazards

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

##### 15% - 20% propane

Index number: 601-003-00-5, CAS: 74-98-6, EC: 200-827-9

F+; R12; substance with a Community workplace exposure limit



2.2/1 Flam. Gas 1 H220



2.5 Press. Gas H280

##### 15% - 20% acetone; propan-2-one; propanone

Index number: 606-001-00-8, CAS: 67-64-1, EC: 200-662-2

F,Xi; R11-36-66-67



2.6/2 Flam. Liq. 2 H225



3.3/2 Eye Irrit. 2 H319



3.8/3 STOT SE 3 H336

##### 10% - 12.5% o-xylene

Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

Xn,Xi; R10-20/21-38



2.6/3 Flam. Liq. 3 H226



3.2/2 Skin Irrit. 2 H315



3.1/4/Dermal Acute Tox. 4 H312



3.1/4/Inhal Acute Tox. 4 H332

##### 7% - 10% butane

Index number: 601-004-00-0, CAS: 106-97-8, EC: 203-448-7


F+; R12; substance with a Community workplace exposure limit



2.2/1 Flam. Gas 1 H220

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 2.5 Press. Gas H280

3% - 5% butane

Index number: 601-004-00-0, CAS: 75-28-5, EC: 200-857-2

F+; R12; substance with a Community workplace exposure limit


 2.2/1 Flam. Gas 1 H220

 2.5 Press. Gas H280

0.5% - 1% Low boiling point hydrogen treated naphtha

Index number: 649-327-00-6, CAS: 64742-48-9, EC: 265-150-3

Xn; R10-66-65

 3.6/1B Carc. 1B H350


 3.5/1B Muta. 1B H340

 3.10/1 Asp. Tox. 1 H304

0.5% - 1% Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consist

Index number: 649-356-00-4, CAS: 64742-95-6, EC: 265-199-0

Xn,Xi,N; R51/53-37-10-65-66-67

 3.6/1B Carc. 1B H350

 3.5/1B Muta. 1B H340

 3.10/1 Asp. Tox. 1 H304

DECLP\*

0.1% - 0.25% zinc powder - zinc dust (stabilized)

Index number: 030-002-00-7, CAS: 7440-66-6, EC: 231-175-3

N; R50/53

\*DECLP: Substance classified accordingly to Note P of the Annex I of directive 67/548/EEC. The classification as a carcinogen need not apply if it can be shown that the substance contains less than 0.1% weight/weight of benzene

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#### SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed  
None

4.3. Indication of any immediate medical attention and special treatment needed  
Treatment:  
None

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#### SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use vaporized water or foam.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

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#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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#### SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

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Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

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

None in particular

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

propane - CAS: 74-98-6

TLV TWA - 1000 ppm - 0 mg/m<sup>3</sup>

VLE short - 1000 ppm

acetone; propan-2-one; propanone - CAS: 67-64-1

TLV TWA - ppm 500, A4

TLV STEL - ppm 750, A4

VLE 8h - ppm 500 mg/m<sup>3</sup> 1210

o-xylene - CAS: 1330-20-7

TLV TWA - ppm 100 ,A4

TLV STEL - ppm 150 ,A4

VLE 8h - ppm 50 - mg/m<sup>3</sup> 221 ,Skin

VLE short - ppm 100 - mg/m<sup>3</sup> 442 ,Skin

butane - CAS: 106-97-8

TLV TWA - 1000 ppm

butane - CAS: 75-28-5

TLV TWA - 1000 ppm - 0 mg/m<sup>3</sup>

VLE short - 1000 ppm

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

#### 8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

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### SECTION 9: Physical and chemical properties

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

Appearance and colour:

Liquid aspect (under pressure), typical colour.

Odour:

Characteristic of solvent

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Odour threshold:	N.A.	
pH:	N.A.	
Melting point / freezing point:	N.A.	
Initial boiling point and boiling range:	N.A.	
Solid/gas flammability:	Extremely flammable	
Upper/lower flammability or explosive limits:	N.A.	
Vapour density:	> of air.	
Flash point:	Inf. 0 ° C	
Evaporation rate:	N.A.	
Vapour pressure:	a 20°C - 4,0 bar	a 50°C - 8,0 bar
Relative density:	0,75 - 0,80 g/ml	
Solubility in water:	N0	
Solubility in oil:	SI	
Partition coefficient (n-octanol/water):	N.A.	
Auto-ignition temperature:	N.A.	
Decomposition temperature:	N.A.	
Viscosity:	N.A.	
Explosive properties:	N.A.	
Oxidizing properties:	N.A.	
9.2. Other information		
Miscibility:	N.A.	
Fat Solubility:	N.A.	
Conductivity:	N.A.	
Substance Groups relevant properties	N.A.	

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#### SECTION 10: Stability and reactivity

- 10.1. Reactivity
  - Stable under normal conditions
- 10.2. Chemical stability
  - Stable under normal conditions
- 10.3. Possibility of hazardous reactions
  - None
- 10.4. Conditions to avoid
  - Stable under normal conditions.
- 10.5. Incompatible materials
  - Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
  - None.

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#### SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
  - Toxicological information of the mixture:
    - N.A.
  - Toxicological information of the main substances found in the mixture:
    - acetone; propan-2-one; propanone - CAS: 67-64-1
      - LD50 (RABBIT) ORAL: 5300 MG/KG
    - o-xylene - CAS: 1330-20-7
      - LD50 (RAT) ORAL: 5000 MG/KG

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If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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#### SECTION 12: Ecological information

##### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

zinc powder - zinc dust (stabilized) - CAS: 7440-66-6

##### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 0.44 mg/l - Duration h: 96

##### 12.2. Persistence and degradability

None

N.A.

##### 12.3. Bioaccumulative potential

N.A.

##### 12.4. Mobility in soil

N.A.

##### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

##### 12.6. Other adverse effects

None

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#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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#### SECTION 14: Transport information

##### 14.1. UN number

ADR-UN number: 1950

IATA-Un number: 1950

IMDG-Un number: 1950

##### 14.2. UN proper shipping name

ADR-Shipping Name: AEROSOL

IATA-Technical name: AEROSOL

IMDG-Technical name: AEROSOL

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

ADR-Class: 2.5F

IATA-Class: 2.1

IATA-Label: 2.1

IMDG-Class: 2

##### 14.4. Packing group

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- ADR-Packing Group: -  
IATA-Packing group: -  
IMDG-Packing group: -
- 14.5. Environmental hazards  
Marine pollutant: Marine pollutant
- 14.6. Special precautions for user  
IATA-Passenger Aircraft: ----  
IATA-Cargo Aircraft: 203  
IMDG-Technical name: AEROSOL  
IMDG-Page: F-D, S-U  
IMDG-EMS: F-D, SU
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
N.A.

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#### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)  
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Dir. 2006/8/EC  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP)  
Regulation (EU) n. 453/2010 (Annex I)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
None
- Volatile Organic compounds - VOCs = 590.85 g/l  
Volatile CMR substances = 0.00 %  
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %  
Organic Carbon - C = 0.00
- Where applicable, refer to the following regulatory provisions :  
Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.  
Regulation (EC) nr 648/2004 (detergents).  
1999/13/EC (VOC directive)
- 15.2. Chemical safety assessment  
No

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#### SECTION 16: Other information

- Text of phrases referred to under heading 3:
- R10 Flammable.
  - R11 Highly flammable.
  - R12 Extremely flammable.
  - R20/21 Harmful by inhalation and in contact with skin.
  - R36 Irritating to eyes.
  - R37 Irritating to respiratory system.
  - R38 Irritating to skin.



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R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H350 May cause cancer.

H340 May cause genetic defects.

H304 May be fatal if swallowed and enters airways.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date.

It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of  
Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical  
Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of  
Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport  
Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"  
(ICAO).

IMDG: International Maritime Code for Dangerous Goods.

**Safety Data Sheet****ZINCO BRILLANTE SPRAY**

INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.
N.A.:	N.A.
N.D.:	