

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: A0091 - 9080
Product name: ZINCO ARGENTO
Chemical name and synonym: ZINCO SPRAY
UFI: CE50-U077-200X-AYV8

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

Intended use: 9080 ARGENTO - ZINCATURA A FREDDO IN AEROSOL.

1.3. Details of the supplier of the safety data sheet

Name: Talken Color Srl
Full address: via Don Milani 15
District and Country: 20025 Legnano (Mi)
Italia
Tel. 0331/579100
Fax 0331/579372

e-mail address of the competent person responsible for the Safety Data Sheet: tecnico@talkencolor.it

1.4. Emergency telephone number

For urgent inquiries refer to

CAV “
Ospedale Pediatrico Bambino Gesù”
–
Roma
Tel. (+39) 06.6859.3726
CAV “
Azienda Ospedaliera Università di Foggia”
–
Foggia
Tel. 800.183.459
CAV “
Azienda Ospedaliera A. Cardarelli”
–
Napoli
Tel. (+39) 081.545.3333
CAV Policlinico “
Umberto I”
–
Roma
Tel. (+39) 06.4997.8000
CAV Policlinico “
A. Gemelli”
–
Roma
Tel. (+39) 06.305.4343
CAV Azienda Ospedaliera “
Careggi”
U.O. Tossicologia Medica –
Firenze

Tel. (+39) 055.794.7819
CAV Centro Nazionale di Informazione Tossicologica –
Pavia
Tel. (+39) 0382.24.444
CAV Ospedale Niguarda –
Milano
Tel. (+39) 02.66.1010.29
CAV Azienda Ospedaliera Papa Giovanni XXIII –
Bergamo
Tel. 800.88.33.00
CAV Centro Antiveleni Veneto –
Verona
Tel. 800.011.858

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| | | |
|--|--------------|---|
| Aerosol, category 1 | H222 H229 | Extremely flammable aerosol. Pressurised container: may burst if heated. |
| Eye irritation, category 2 | H319 | Causes serious eye irritation. |
| Specific target organ toxicity - single exposure, category 3 | H336 | May cause drowsiness or dizziness. |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

| | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: may burst if heated. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

A0091 - 9080 - ZINCO ARGENTO

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

P501 Dispose of contents in different containers for steel

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P211 Do not spray on an open flame or other ignition source.

Contains: ACETONE
PROPAN-2-OL
BUTAN-1-OL
NAFTA SOLVENTE, AROMATICA LEGGERA

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

| Identification | Conc. % | Classification (EC) 1272/2008 (CLP) |
|----------------------------------|---------|---|
| ACETONE | | |
| INDEX 606-001-00-8 | 43,343 | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC 200-662-2 | | |
| CAS 67-64-1 | | |
| REACH Reg. 01-2119471330-49-XXXX | | |
| 2-BUTOXYETHANOL | | |
| INDEX 603-014-00-0 | 2,84 | Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315 |
| EC 203-905-0 | | LD50 Oral: 1200 mg/kg, ATE Inhalation mists/powders: 0,501 mg/l |
| CAS 111-76-2 | | |
| REACH Reg. 01-2119475108-36-XXXX | | |

A0091 - 9080 - ZINCO ARGENTO**DIACETONE ALCOHOL**

INDEX 603-016-00-1 2,308 Flam. Liq. 3 H226, Eye Irrit. 2 H319, STOT SE 3 H335

EC 204-626-7

CAS 123-42-2

REACH Reg. 01-2119473975-21

XYLENE

INDEX 601-022-00-9 1,336 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C
ATE Dermal: 1100 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l

EC 215-535-7

CAS 1330-20-7

REACH Reg. 01-2119488216-32-

XXX

PROPAN-2-OL

INDEX 603-117-00-0 1,178 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

EC 200-661-7

CAS 67-63-0

REACH Reg. 01-2119457558-25

BUTAN-1-OL

INDEX 603-004-00-6 1,111 Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
LD50 Oral: 790 mg/kg

EC 200-751-6

CAS 71-36-3

REACH Reg. 01-2119484630-38

NAPHTHA (PETROL.)**HYDROTREATED HEAVY**

INDEX 649-327-00-6 0,794 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066,
Classification note according to Annex VI to the CLP Regulation: P

EC 265-150-3

CAS 64742-48-9

REACH Reg. 01-2119463258-33-

XXXX

NAFTA SOLVENTE, AROMATICA**LEGGERA**

INDEX - 0,794 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336,
Aquatic Chronic 2 H411

EC 265-199-0

CAS 64742-95-6

bisortofosfato di trizinco

INDEX 030-011-00-6 0,465 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 231-944-3

CAS 7779-90-0

ETHYLBENZENE

INDEX 601-023-00-4 0,244 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,
Aquatic Chronic 3 H412
ATE Inhalation mists/powders: 1,5 mg/l

EC 202-849-4

CAS 100-41-4

REACH Reg. 01-2119489370-35-

XXX

N-BUTYL ACETATE

INDEX 607-025-00-1 0,053 Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1

CAS 123-86-4

REACH Reg. 01-2119485493-29

**NONYLPHENOL, BRANCHED AND
LINEAR, ETHOXYLATED (with
average molecular weight \leq 1 540
g/mol)**

INDEX 604-100-00-0 0,012 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10

EC 500-024-6

CAS 9016-45-9

TOLUENE

INDEX 601-021-00-3 0,00033 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9

CAS 108-88-3

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: 35,49 %

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Call a POISON CENTRE / doctor / . . . if you feel unwell.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting 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).

SECTION 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.

SECTION 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

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

| | | |
|-----|----------------|---|
| ESP | España | Límites de exposición profesional para agentes químicos en España 2023 Decreto Legislativo 9 Aprile 2008, n.81 EH40/2005 Workplace exposure limits (Fourth Edition 2020) Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; 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 98/24/EC; Directive 91/322/EEC. ACGIH 2023 |
| ITA | Italia | |
| GBR | United Kingdom | |
| EU | OEL EU | |
| | TLV-ACGIH | |

ACETONE

Threshold Limit Value

| Type | Country | TWA/8h | STEL/15min | Remarks / Observations |
|-----------|---------|--------|------------|------------------------|
| | | mg/m3 | ppm | |
| VLA | ESP | 1210 | 500 | |
| VLEP | ITA | 1210 | 500 | |
| WEL | GBR | 1210 | 500 | 3620 1500 |
| OEL | EU | 1210 | 500 | |
| TLV-ACGIH | | | 250 | 500 |

2-BUTOXYETHANOL

Threshold Limit Value

| Type | Country | TWA/8h | STEL/15min | Remarks / Observations |
|-----------|---------|--------|------------|------------------------|
| | | mg/m3 | ppm | |
| VLA | ESP | 98 | 20 | 245 50 SKIN |
| VLEP | ITA | 98 | 20 | 246 50 SKIN |
| WEL | GBR | 123 | 25 | 246 50 SKIN |
| OEL | EU | 98 | 20 | 246 50 SKIN |
| TLV-ACGIH | | 97 | 20 | |

ALUMINIUM POWDER (STABILISED)

Threshold Limit Value

| Type | Country | TWA/8h | STEL/15min | Remarks / Observations |
|------|---------|--------|------------|------------------------|
| | | mg/m3 | ppm | |
| VLA | ESP | 1 | | RESP |

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| | | | | | |
|-----------|-----|----|-----|--|---------|
| WEL | GBR | 10 | | | INHAL |
| WEL | GBR | 4 | | | RESP |
| TLV-ACGIH | | 1 | 0,9 | | RESP AI |

DIACETONE ALCOHOL

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | Remarks / Observations |
|-----------|---------|--------|-----|------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| VLA | ESP | 241 | 50 | | |
| WEL | GBR | 241 | 50 | 362 | 75 |
| TLV-ACGIH | | 238 | 50 | | |

XYLENE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | Remarks / Observations |
|-----------|---------|--------|-----|------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| VLA | ESP | 221 | 50 | 442 | 100 SKIN |
| VLEP | ITA | 221 | 50 | 442 | 100 SKIN |
| WEL | GBR | 220 | 50 | 441 | 100 SKIN |
| OEL | EU | 221 | 50 | 442 | 100 SKIN |
| TLV-ACGIH | | | 20 | | |

PROPAN-2-OL

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | Remarks / Observations |
|-----------|---------|--------|-----|------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| VLA | ESP | 500 | 200 | 1000 | 400 |
| WEL | GBR | 999 | 400 | 1250 | 500 |
| TLV-ACGIH | | 492 | 200 | 983 | 400 |

BUTAN-1-OL

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | Remarks / Observations |
|-----------|---------|--------|-----|------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| VLA | ESP | 61 | 20 | 154 | 50 |
| WEL | GBR | | | 154 | 50 SKIN |
| TLV-ACGIH | | 61 | 20 | | |

NAFTA SOLVENTE, AROMATICA LEGGERA

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | Remarks / Observations |
|-----------|---------|--------|-----|------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| TLV-ACGIH | | | | 32 | INHAL |

ETHYLBENZENE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | Remarks / Observations |
|------|---------|--------|-----|------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| | | | | | |

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| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| VLA | ESP | 441 | 100 | 884 | 200 | SKIN |
| VLEP | ITA | 442 | 100 | 884 | 200 | SKIN |
| WEL | GBR | 441 | 100 | 552 | 125 | SKIN |
| OEL | EU | 442 | 100 | 884 | 200 | SKIN |
| TLV-ACGIH | | 87 | 20 | | | |

N-BUTYL ACETATE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| VLA | ESP | 241 | 50 | 723 | 150 | |
| VLEP | ITA | 241 | 50 | 723 | 150 | |
| WEL | GBR | 724 | 150 | 966 | 200 | |
| OEL | EU | 241 | 50 | 723 | 150 | |
| TLV-ACGIH | | | 50 | | 150 | |

TOLUENE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| VLA | ESP | 192 | 50 | 384 | 100 | SKIN |
| VLEP | ITA | 192 | 50 | | | SKIN |
| WEL | GBR | 191 | 50 | 384 | 100 | SKIN |
| OEL | EU | 192 | 50 | 384 | 100 | SKIN |
| TLV-ACGIH | | | 20 | | | |

Legend:

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

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.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

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. Use a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Information |
|--|---|-------------|
| Appearance | aerosol | |
| Colour | silver | |
| Odour | characteristic of solvent | |
| Melting point / freezing point | not available | |
| Initial boiling point | not applicable | |
| Flammability | non applicabile per aerosol | |
| Lower explosive limit | not available | |
| Upper explosive limit | not available | |
| Flash point | not applicable | |
| Auto-ignition temperature | not available | |
| Decomposition temperature | not available | |
| pH | not available | |
| Kinematic viscosity | not available | |
| Solubility | solubile in acetone e/o diluente nitro | |
| Partition coefficient: n-octanol/water | not available | |
| Vapour pressure | not available | |
| Density and/or relative density | 0,753 | |
| Relative vapour density | not available | |
| Particle characteristics | not applicable | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

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9.2.2. Other safety characteristics

| | | |
|----------------------------|--|---------|
| VOC (Directive 2010/75/EU) | 89,09 % - 670,84 | g/litre |
| Explosive properties | durante l'uso puo' formare con l'aria miscele esplosive o infiammabili | |
| Oxidising properties | not applicable | |

SECTION 10. Stability and reactivity**10.1. Reactivity**

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

ACETONE

Decomposes under the effect of heat.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

DIACETONE ALCOHOL

Decomposes at temperatures above 90°C/194°F.

BUTAN-1-OL

Attacks various types of plastic materials.

N-BUTYL ACETATE

Decomposes on contact with: water.

TOLUENE

Avoid exposure to: light.

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.

ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.

2-BUTOXYETHANOL

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May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.

DIACETONE ALCOHOL

Risk of explosion on contact with: air,sources of heat.May react dangerously with: alkaline metals,amines,oxidising agents,acids.

XYLENE

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

BUTAN-1-OL

Reacts violently developing heat on contact with: aluminium,strong oxidising agents,strong reducing agents,hydrochloric acid.Forms explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.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.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong acids,sulphur.

10.4. Conditions to avoid

Avoid overheating.

ACETONE

Avoid exposure to: sources of heat,naked flames.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

DIACETONE ALCOHOL

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

BUTAN-1-OL

Avoid exposure to: sources of heat,naked flames.

N-BUTYL ACETATE

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

10.5. Incompatible materials

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

ACETONE

Incompatible with: acids,oxidising substances.

N-BUTYL ACETATE

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

10.6. Hazardous decomposition products

ACETONE

May develop: ketenes,irritant substances.

2-BUTOXYETHANOL

May develop: hydrogen.

ETHYLBENZENE

May develop: methane,styrene,hydrogen,ethane.

SECTION 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 hazard classes as defined in Regulation (EC) No 1272/2008Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

DIACETONE ALCOHOL

WORKERS: inhalation; contact with the skin.

XYLENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

N-BUTYL ACETATE

A0091 - 9080 - ZINCO ARGENTO

WORKERS: inhalation; contact with the skin.

TOLUENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**DIACETONE ALCOHOL**

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

XYLENE

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects**XYLENE**

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

ACUTE TOXICITY

| | |
|--|-------------|
| ATE (Inhalation - mists / powders) of the mixture: | > 5 mg/l |
| ATE (Oral) of the mixture: | >2000 mg/kg |
| ATE (Dermal) of the mixture: | >2000 mg/kg |

2-BUTOXYETHANOL

| | |
|---------------------------------|---|
| LD50 (Oral): | 1200 mg/kg Guinea pig |
| LC50 (Inhalation vapours): | 3 mg/l/4h Rat |
| ATE (Inhalation mists/powders): | 0,501 mg/l (figure used for calculation of the acute toxicity estimate of the mixture) |

DIACETONE ALCOHOL

| | |
|--------------|----------------|
| LD50 (Oral): | 4000 mg/kg Rat |
|--------------|----------------|

A0091 - 9080 - ZINCO ARGENTO**XYLENE**

| | |
|---------------------------------|---|
| LD50 (Dermal): | 4350 mg/kg Rabbit |
| ATE (Dermal): | 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) |
| LD50 (Oral): | 3523 mg/kg Rat |
| LC50 (Inhalation vapours): | 26 mg/l/4h Rat |
| ATE (Inhalation mists/powders): | 1,5 mg/l (figure used for calculation of the acute toxicity estimate of the mixture) |

PROPAN-2-OL

| | |
|----------------------------|------------------|
| LD50 (Dermal): | 12800 mg/kg Rat |
| LD50 (Oral): | 4710 mg/kg Rat |
| LC50 (Inhalation vapours): | 72,6 mg/l/4h Rat |

BUTAN-1-OL

| | |
|----------------------------|-------------------|
| LD50 (Dermal): | 3400 mg/kg Rabbit |
| LD50 (Oral): | 790 mg/kg Rat |
| LC50 (Inhalation vapours): | 8000 ppm/4h Rat |

NAPHTHA (PETROL.) HYDROTREATED HEAVY

| | |
|----------------|---------------------|
| LD50 (Dermal): | > 2000 mg/kg Rabbit |
| LD50 (Oral): | > 5000 mg/kg Rat |

ETHYLBENZENE

| | |
|----------------------------|--------------------|
| LD50 (Dermal): | 15354 mg/kg Rabbit |
| LD50 (Oral): | 3500 mg/kg Rat |
| LC50 (Inhalation vapours): | 17,2 mg/l/4h Rat |

N-BUTYL ACETATE

| | |
|----------------------------|---------------------|
| LD50 (Dermal): | > 5000 mg/kg Rabbit |
| LD50 (Oral): | > 6400 mg/kg Rat |
| LC50 (Inhalation vapours): | 21,1 mg/l/4h Rat |

NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight \leq 1 540 g/mol)

| | |
|----------------|-------------------|
| LD50 (Dermal): | 1780 mg/kg Rabbit |
| LD50 (Oral): | 1310 mg/kg Rat |

TOLUENE

| | |
|----------------------------|--------------------|
| LD50 (Dermal): | 12124 mg/kg Rabbit |
| LD50 (Oral): | 5580 mg/kg Rat |
| LC50 (Inhalation vapours): | 28,1 mg/l/4h Rat |

SKIN CORROSION / IRRITATION

Repeated exposure may cause skin dryness or cracking.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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

XYLENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

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

12.1. Toxicity**NAPHTHA (PETROL.) HYDROTREATED HEAVY**

| | |
|-----------------------------------|---|
| LC50 - for Fish | 8,2 mg/l/96h Pimephales promelas |
| EC50 - for Crustacea | 4,5 mg/l/48h Daphnia magna |
| EC50 - for Algae / Aquatic Plants | 3,1 mg/l/72h Pseudokirchnerella subcapitata |

bisortofosfato di trizinco

| | |
|-----------------|--------------|
| LC50 - for Fish | 0,9 mg/l/96h |
|-----------------|--------------|

12.2. Persistence and degradability**NONYLPHENOL, BRANCHED AND**

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LINEAR, ETHOXYLATED (with average
molecular weight $\leq 1\ 540$ g/mol)

Solubility in water > 10000 mg/l

Rapidly degradable
XYLENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable
TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable
ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable
BUTAN-1-OL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable
2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable
DIACETONE ALCOHOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable
PROPAN-2-OL

Rapidly degradable
ACETONE

Rapidly degradable
N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l

NAPHTHA (PETROL.) HYDROTREATED
HEAVY

Rapidly degradable

12.3. Bioaccumulative potential

NONYLPHENOL, BRANCHED AND
LINEAR, ETHOXYLATED (with average
molecular weight $\leq 1\ 540$ g/mol)

Partition coefficient: n-octanol/water 3,7

XYLENE

Partition coefficient: n-octanol/water 3,12

BCF 25,9

TOLUENE

Partition coefficient: n-octanol/water 2,73

BCF 90

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

BUTAN-1-OL

| | |
|--|-------|
| Partition coefficient: n-octanol/water | 1 |
| BCF | 3,16 |
| 2-BUTOXYETHANOL | |
| Partition coefficient: n-octanol/water | 0,81 |
| DIACETONE ALCOHOL | |
| Partition coefficient: n-octanol/water | -0,09 |
| PROPAN-2-OL | |
| Partition coefficient: n-octanol/water | 0,05 |
| ACETONE | |
| Partition coefficient: n-octanol/water | -0,23 |
| BCF | 3 |
| N-BUTYL ACETATE | |
| Partition coefficient: n-octanol/water | 2,3 |
| BCF | 15,3 |

12.4. Mobility in soil

Information not available

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 \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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

Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS
 IMDG: AEROSOLS
 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: NO
 IMDG: not marine pollutant
 IATA: NO

14.6. Special precautions for user

| | | | |
|------------|---------------------------------------|--------------------------------|------------------------------------|
| ADR / RID: | HIN - Kemler: -- | Limited Quantities: 1 L | Tunnel restriction code: (D) |
| | Special provision: 190, 327, 344, 625 | | |
| IMDG: | EMS: F-D, S-U | Limited Quantities: 1 L | |
| IATA: | Cargo: | Maximum quantity: 150 Kg | Packaging instructions: 203 |
| | Passengers: | Maximum quantity: 75 Kg | Packaging instructions: 203 |
| | Special provision: | A145, A167, A802 | |

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 40

Contained substance

Point 75

| | | |
|-------|-----|--|
| Point | 46a | NONYLPHENOL, BRANCHED AND LINEAR, ETHOXYLATED (with average molecular weight \leq 1 540 g/mol) |
|-------|-----|--|

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

| | |
|--------------------------|--|
| Aerosol 1 | Aerosol, category 1 |
| Aerosol 3 | Aerosol, category 3 |
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Flam. Liq. 3 | Flammable liquid, category 3 |
| Repr. 2 | Reproductive toxicity, category 2 |
| Acute Tox. 3 | Acute toxicity, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Asp. Tox. 1 | Aspiration hazard, category 1 |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, category 2 |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: may burst if heated. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H361d | Suspected of damaging the unborn child. |
| H331 | Toxic if inhaled. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H304 | May be fatal if swallowed and enters airways. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |

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| | |
|---------------|---|
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- 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
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- 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.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 03.