

Safety Data Sheet
SPEEDY CARBONIUM



Safety Data Sheet dated 9/11/2012, version 3
MOD.453/2010

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Mixture identification:

Trade name: SPEEDY CARBONIUM

Trade code: 6432.712

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

Use of the substance/mixture:

Antifouling paint

1.3 Details of the supplier of the safety data sheet

Company:

BOERO BARTOLOMEO S.p.A. - Via Macaggi 19 - 16121 Genova - Tel. +39 010 55001 - Fax +39 010 5500305 - CF/P. IVA/REG. IMPRESE DI GENOVA 00267120103

Brand Veneziani TM used Under License of Colorificio Zetagi S.r.l.

Competent person responsible for the safety data sheet:

sicurezzaprodotti@boero.it

1.4 Emergency telephone number

YACHT SYSTEMS S.r.l. - Tel.+39 040 3783911

opening hours 9.00 am - 5.00 pm

Centro Antiveleni - Ospedale San Martino - Genova - Tel.: +39 010 352808

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:

- Xn Harmful
- Xi Irritant
- N Dangerous for the environment

R Phrases:

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R32 Contact with acids liberates very toxic gas.

R38 Irritating to skin.

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

Adverse physicochemical, human health and environmental effects:

The main adverse physical-chemical effects for human health and the environment are listed in accordance with Sections 9 to 12 of the safety data sheet

2.2 Label elements



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Symbols:

- Xn Harmful
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R Phrases:

- R10 Flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R32 Contact with acids liberates very toxic gas.
- R38 Irritating to skin.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases:

- S2 Keep out of reach of children.
- S23 Do not breathe fumes
- S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- S36/37 Wear suitable protective clothing and gloves.
- S43 In case of fire use CO2 or chemical powder. Never use water.
- S46 If swallowed, seek medical advice immediately and show this container or label.

Contents:

- xylene
- zinc pyrithione

Notes:

- PACK2 The packing must have tactile indications of danger for blind people.

2.3 Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

Hazardous components within the meaning of EEC directive 67/548/EEC and Regulation EC 1272/2008 on classification, labelling and packaging of substances and mixtures and subsequent amendments, and classification:

20% - 25% zinc oxide

REACH No.: 01-2119463881-32-XXXX, Index number: 030-013-00-7, CAS: 1314-13-2, EC: 215-222-5

N; R50/53

■ 4.1/A1 Aquatic Acute 1 H400

■ 4.1/C1 Aquatic Chronic 1 H410

15% - 20% xylene

REACH No.: 01-2119488216-32-XXXX, Index number: 601-022-00-9, CAS:

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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

15% - 20% copper thiocyanate
Index number: 615-004-00-3, CAS: 1111-67-7, EC: 214-183-1
Xn; R20/21/22-32

3% - 5% ethylbenzene
Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4
F,Xn; R20-11
■ 2.6/2 Flam. Liq. 2 H225
■ 3.1/4/Inhal Acute Tox. 4 H332

1% - 3% zinc pyrithione
CAS: 13463-41-7, EC: 236-671-3
T,Xn,Xi,N; R22-23-38-41-50

1% - 3% solvent naphtha
Index number: 649-356-00-4, CAS: 64742-95-6, EC: 265-199-0
Xn,N; R51/53-66-67-10-65
■ 3.6/1B Carc. 1B H350
■ 3.5/1B Muta. 1B H340
■ 3.10/1 Asp. Tox. 1 H304
DECLP*

1% - 3% 1,2,4-trimethylbenzene
Index number: 601-043-00-3, CAS: 95-63-6, EC: 202-436-9
Xn,Xi,N; R10-20-36/37/38-51/53
■ 2.6/3 Flam. Liq. 3 H226
■ 3.3/2 Eye Irrit. 2 H319
■ 3.8/3 STOT SE 3 H335
■ 3.2/2 Skin Irrit. 2 H315
■ 4.1/C2 Aquatic Chronic 2 H411
■ 3.1/4/Inhal Acute Tox. 4 H332

0.25% - 0.5% mesitylene; 1,3,5-trimethylbenzene
Index number: 601-025-00-5, CAS: 108-67-8, EC: 203-604-4
Xi,N; R10-37-51/53
■ 2.6/3 Flam. Liq. 3 H226
■ 3.8/3 STOT SE 3 H335
■ 4.1/C2 Aquatic Chronic 2 H411

0.1% - 0.25% cumene

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Index number: 601-024-00-X, CAS: 98-82-8, EC: 202-704-5

Xn,Xi,N; R10-37-51/53-65

■ 2.6/3 Flam. Liq. 3 H226

■ 3.10/1 Asp. Tox. 1 H304

■ 3.8/3 STOT SE 3 H335

■ 4.1/C2 Aquatic Chronic 2 H411

299 mg/kg 2-methylpropan-1-ol; iso-butanol

REACH No.: 01-2119484609-23-XXXX, Index number: 603-108-00-1, CAS:

78-83-1, EC: 201-148-0

Xi; R10-37/38-41-67

■ 2.6/3 Flam. Liq. 3 H226

■ 3.8/3 STOT SE 3 H335

■ 3.2/2 Skin Irrit. 2 H315

■ 3.3/1 Eye Dam. 1 H318

■ 3.8/3 STOT SE 3 H336

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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- 4.2 Most important symptoms and effects, both acute and delayed
Harmful by inhalation.
Harmful in contact with skin.
Irritating to skin.
- 4.3 Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media
Suitable extinguishing media:
CO2, Foam, Chemical powders, according to the materials involved in the fire.
Extinguishing media which must not be used for safety reasons:
Do not use water jets
- 5.2 Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Avoid breathing the fumes.
- 5.3 Advice for fire-fighters
Use suitable breathing apparatus .
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.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove all sources of ignition.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.
- 6.2 Environmental precautions
Prevent penetration into soil/subsoil. Prevent run-off into surface water or sanitary sewer systems.
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 sections 8 and 13

7. HANDLING AND STORAGE

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7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mists.
Use localized ventilation system.
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 the containers tightly closed.
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
Keep away from food, drink and feed.
Incompatible materials:
Keep away from acids.
Instructions as regards storage premises:
Cool and adequately ventilated.

7.3 Specific end use(s)

See section 1.2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

zinc oxide

- CAS: 1314-13-2

TLV TWA: mg/m3 2

TLV STEL: mg/m3 10

xylene - CAS: 1330-20-7

VLE 8h: ppm 50 - mg/m3 221 ,Skin

VLE short: ppm 100 - mg/m3 442 ,Skin

TLV TWA: ppm 100 ,A4

TLV STEL: ppm 150 ,A4

ethylbenzene - CAS: 100-41-4

VLE 8h: ppm 100 mg/m3 442 ,Skin

VLE short: ppm 200 mg/m3 884 ,Skin

TLV TWA: ppm 100 A3

TLV STEL: ppm 125 A3

1,2,4-trimethylbenzene - CAS: 95-63-6

VLE 8h: ppm 20 mg/m3 100

mesitylene; 1,3,5-trimethylbenzene - CAS: 108-67-8

VLE 8h: ppm 20 mg/m3 100

cumene - CAS: 98-82-8

VLE 8h: ppm 20 mg/m3 100 ,Skin

VLE short: ppm 50 mg/m3 25 ,Skin

TLV TWA: ppm 50

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

TLV TWA: ppm 50

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DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

8.2 Exposure controls

Eye protection:

Use goggles/ facemask certified UNI EN 166.

Protection for skin:

Suitable protective clothing is required for complete skin protection: for example coveralls with long sleeves and trousers, rubber boots and apron, etc.

Protection for hands:

Use protective gloves: waterproof rubber gloves certified UNI EN 374.

Nitrile gloves provide good protection. Use care in selecting a penetration time of the gloves longer than the foreseen usage time.

Respiratory protection:

Use adequate protective respiratory equipment: a carbon filter mask with filters certified UNI EN 149 or dust masks certified UNI EN 140. Filters of types A and P1 or similar types may be considered.

Thermal Hazards:

None

Environmental exposure controls:

See sections 6 and 13

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance and colour: liquid
Colour: grey
Odour: N.A.
Odour threshold: N.A.
pH: N.A.
Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.
Solid/gas flammability: N.A.
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Flash point: 22 °C
Evaporation rate: N.A.
Vapour pressure: N.A.
Specific gravity (Kg/L) 20°C : 1.8000
Solubility in water: N.A.
Lipid solubility: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: min 3000 - max 5000
Methodology: BROOKFIELD (cP)
Explosive properties: N.A.

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Oxidizing properties: N.A.
9.2 Other information
Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.
Substance Groups relevant properties N.A.

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.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:
Harmful by inhalation and in contact with skin.
Irritant effects:
Eyes:
None
Skin:
Irritating to skin.
Inhalation:
None
Corrosive effects:
None
None
Sensitising effects:
None
Long-term effects:
None
Carcinogenic effects, mutagenic effects, toxic effects for reproduction:
None
There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.
Toxicological information on main components of the mixture:

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There are no data about toxicological effects of components. See section 3.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

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

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

12.2 Persistence and degradability

N.D.

12.3 Bioaccumulative potential

N.D.

12.4 Mobility in soil

N.D.

12.5 Results of PBT and vPvB assessment:

N.D.

List of substances dangerous for the environment and corresponding classification:

20% - 25% zinc oxide

CAS: 1314-13-2

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

1% - 3% zinc pyrithione

CAS: 13463-41-7

R50 Very toxic to aquatic organisms.

1% - 3% solvent naphtha

CAS: 64742-95-6

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

1% - 3% 1,2,4-trimethylbenzene

CAS: 95-63-6

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

0.25% - 0.5% mesitylene; 1,3,5-trimethylbenzene

CAS: 108-67-8

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

0.1% - 0.25% cumene

CAS: 98-82-8

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

vPvB Substances: None - PBT Substances: None

12.6 Other adverse effects

N.D.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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Recover if possible. In so doing, comply with the local and national regulations currently in force. Directives 91/156/CEE, 91/689/CEE, 94/62/CE.

14. TRANSPORT INFORMATION

- 14.1 UN number:
UN 1263
- 14.2 Proper shipping name: Paint.
- 14.3 Transport hazard class(es) and Packing Group:
3 PG III
- 14.4 Environmental hazards
Marine Pollutant: Yes
- 14.5 Special Precautions for User
None
- 14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable
- Other informations
Land transport ADR/RID/ADN
ADR Classification code: F1
Maximum quantity for Limited Quantities: 5L/Kg
Tunnels code :D/E
Transport category: 3
- Maritime transport (IMDG)
Maximum quantity for Limited Quantities: 5L/Kg
EmS number: F-E/S-E
Stowage provisions: A
- Air transport (IATA/ICAO)
Maximum quantity for Limited Quantities: 5L/Kg
Pkg. inst. passenger and cargo aircraft: 309
Pkg. inst. cargo aircraft only: 310
Erg-code: 3L

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 67/548/EEC and subsequent amendments (Classification, packaging and labelling of dangerous substances).
- Dir. 99/45/EEC and subsequent amendments (Classification, packaging and labelling of dangerous preparations).
- Dir. 89/391/CEE and subsequent amendments (Risks related to chemical agents at work and Occupational exposure limit values).
- Regulation (CE) n. 1907/2006 and Regulation (CE) 453/2010 and subsequent amendments (concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH).
- Regulation (CE) n.1272/2008 and subsequent amendments (on classification, labelling and packaging of substances and mixtures - CLP).
- International Maritime Dangerous Goods Code, IATA Dangerous Goods Regulation, International Carriage of Dangerous Goods by Road (ADR).

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Where applicable, refer to the following regulatory provisions :

Directive 96/82/EC (control of major-accident hazards involving dangerous substances) and subsequent amendments.

Regulation (EC) No. 648/2004 (detergents).

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

Regulation (EC) No 689/2006 concerning the export and import of dangerous chemicals.

15.2 Chemical Safety Assessment

No

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R22 Harmful if swallowed.

R23 Toxic by inhalation.

R32 Contact with acids liberates very toxic gas.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R50 Very toxic to aquatic organisms.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H225 Highly flammable liquid and vapour.

H350 May cause cancer.

H340 May cause genetic defects.

H304 May be fatal if swallowed and enters airways.

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H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

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.
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.

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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.