

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 01.07.2015

Version number 1

Revision: 01.07.2015

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

- **1.1 Product identifier**
- **Trade name:** *Chain & Cable new*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / the mixture** *Lubricant*
- **Product intended for:** *The consumer market.*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Shimano*  
*Industrieweg 24*  
*NL-8071 CT Nunspeet*  
*Tel: +31 (0)34 1272264*  
*Fax: -*
- **1.4 Emergency telephone number:** *Shimano +31 (0)34 1272264*

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

*Flam. Aerosol 2 H223-H229 Flammable aerosol. Pressurised container: May burst if heated.*



GHS08 health hazard

*Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.*



GHS07

*Eye Irrit. 2 H319 Causes serious eye irritation.*

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The product is classified and labelled according to the CLP regulation.*

- **Hazard pictograms** **GHS02, GHS07, GHS08**

- **Signal word** **Danger**

- **Hazard-determining components of labelling:**

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, ≤2% aromatics**

- **Hazard statements**

**H223-H229 Flammable aerosol. Pressurised container: May burst if heated.**

**H319 Causes serious eye irritation.**

**H304 May be fatal if swallowed and enters airways.**

- **Precautionary statements**

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

**P102 Keep out of reach of children.**

**P103 Read label before use.**

**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.**

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

**P280 Wear protective gloves/protective clothing/eye protection/face protection.**

**P264 Wash thoroughly after handling.**

**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.**

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P305+P351+P338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 **If eye irritation persists:** Get medical advice/attention.

P331 **Do NOT induce vomiting.**

P405 Store locked up.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

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.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

|                                    |  |         |
|------------------------------------|--|---------|
| EC number: 919-164-8               | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, <2% aromatics<br>⚠ Asp. Tox. 1, H304 | 25-50%  |
| CAS: 67-63-0<br>EINECS: 200-661-7  | propan-2-ol<br>⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336         | 2.5-10% |
| CAS: 107-41-5<br>EINECS: 203-489-0 | 2-methylpentane-2,4-diol<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319              | 2.5-10% |

· **Ingredients according EC/648/2004**

|                        |       |
|------------------------|-------|
| aliphatic hydrocarbons | ≥ 30% |
|------------------------|-------|

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Not applicable.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** In case of insufficient ventilation, wear suitable respiratory equipment.

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· **Additional information**

At higher temperatures the Spraycan can burst witch can cause an explosion.  
Cool endangered spraycans with water spray.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Wear protective clothing.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol (2.5-10%)

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm

Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

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**107-41-5 2-methylpentane-2,4-diol (2.5-10%)**

|     |  |
|-----|--|
| WEL | Short-term value: 123 mg/m <sup>3</sup> , 25 ppm |
|     | Long-term value: 123 mg/m <sup>3</sup> , 25 ppm  |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

· **Protection of hands:**



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Aerosol

Colour: According to product specification

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 82 °C

· **Flash point:** 12 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** > 200 °C

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|   |  |
|---|--|
| · <b>Decomposition temperature:</b>               | Not determined.                            |
| · <b>Self-igniting:</b>                           | Product is not selfigniting.               |
| · <b>Danger of explosion:</b>                     | Not determined.                            |
| · <b>Explosion limits:</b>                        |  |
| Lower:  | 0.6 Vol %                                  |
| Upper:  | 12.0 Vol %                                 |
| · <b>Vapour pressure at 20 °C:</b>                | 43 hPa                                     |
| · <b>Density at 20 °C:</b>                        | 0.81 g/cm <sup>3</sup>                     |
| · <b>Relative density</b>                         | Not determined.                            |
| · <b>Vapour density</b>                           | Not determined.                            |
| · <b>Evaporation rate</b>                         | Not applicable.                            |
| · <b>Solubility in / Miscibility with water:</b>  | Not miscible or difficult to mix.          |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |  |
| Dynamic:  | Not determined.                            |
| Kinematic:  | Not determined.                            |
| · <b>Solvent content:</b>                         |  |
| Organic solvents:                                 | 50.0 %                                     |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:**

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, <2% aromatics**

|            |          |                                 |
|------------|----------|---------------------------------|
| Oral       | LD50     | >5000 mg/kg (rat) (OESO 401)    |
| Dermal     | LD50     | >5000 mg/kg (rabbit) (OESO 402) |
| Inhalative | LC50/4 h | 4951 mg/l (rat) (OESO 403)      |

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritation.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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Irritant

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### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Not applicable.

### SECTION 14: Transport information

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b><br>· <b>ADR, IMDG, IATA</b>                                     | UN1950   |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR</b><br>· <b>IMDG</b><br>· <b>IATA</b> | 1950 AEROSOLS<br>AEROSOLS<br>AEROSOLS, flammable |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR</b>                                |  |
|      |  |
| · <b>Class</b><br>· <b>Label</b>  | 2 5F Gases.<br>2.1                               |
| · <b>IMDG, IATA</b>   |  |
|      |  |
| · <b>Class</b><br>· <b>Label</b>  | 2.1<br>2.1                                       |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                 | Void   |

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|  |  |
|--|--|
| · <b>14.5 Environmental hazards:</b>   |  |
| · <b>Marine pollutant:</b>   | No   |
| · <b>14.6 Special precautions for user</b>   | Warning: Gases.                                |
| · <b>Danger code (Kemler):</b>   | -  |
| · <b>EMS Number:</b>   | F-D,S-U  |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.                                |
| · <b>Transport/Additional information:</b>   |  |
| · <b>ADR</b>   |  |
| · <b>Limited quantities (LQ)</b>   | 1L   |
| · <b>Excepted quantities (EQ)</b>  | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>Transport category</b>  | 2  |
| · <b>Tunnel restriction code</b>   | D  |
| · <b>IMDG</b>  |  |
| · <b>Limited quantities (LQ)</b>   | 1L   |
| · <b>Excepted quantities (EQ)</b>  | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>UN "Model Regulation":</b>  | UN1950, AEROSOLS, 2.1                          |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The aerosol is an aerosol with a two-compartment system. The product, without propellant, is contained in the inner compartment (bag of foil). Between the bag (with product) and the can is pressurized air, which puts pressure on the bag and propels the product outside when the nozzle is pushed.  
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Aerosol 2: Flammable aerosols, Hazard Category 2

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*  
*Asp. Tox. 1: Aspiration hazard, Hazard Category 1*

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· **\* Data compared to the previous version altered.**

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