



Safety data sheet

According to 91/155 EEC

Printing date 01.09.2015

Revision: 01.09.2015

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

- **Product identifier**
- **Trade name:** CHAIN WAX 375 ml
- **Article number:** 418
- **Application of the substance / the preparation** Non - fling chain lubricant for high velocity chains
- **Details of the supplier of the safety data sheet**
- **Further information obtainable from:**
 WYNN OIL SOUTH AFRICA (PTY) LTD
 22 Mopedi Road,
 Sebenza, Edenvale
 1609
 Gauteng
 South Africa
 Tel: 2711 609 3708
 Fax: 2711 609 2218
 technical@wynns.co.za
- **Emergency telephone number:** Tel: 2711 609 3708

2 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

71-43-2	benzene T Carc. Cat. 1, Muta. Cat. 2 R45-46-48/23/24/25; Xn R65; Xi R36/38; F R11	20-50%
106-97-8	butane, pure F+ R12 H220	10-30%
9003-29-6	Polybutene R10-53 H226; H413	5-10%
108-88-3	toluene Xn R48/20-63-65; Xi R38; F R11 R67	1-10%

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

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R20-48: Harmful by inhalation. Danger of serious damage to health by prolonged exposure.

F+; Extremely flammable

R12: Extremely flammable.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 2)

Safety data sheet

According to 91/155 EEC

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Revision: 01.09.2015

Trade name: CHAIN WAX 375 ml

(Contd. of page 1)

- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurized container.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Code letter and hazard designation of product:**
Xn Harmful
F+ Extremely flammable
- **Hazard-determining components of labelling:**
benzene
- **Risk phrases:**
12 Extremely flammable.
20 Harmful by inhalation.
48 Danger of serious damage to health by prolonged exposure.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
2 Keep out of the reach of children.
9 Keep container in a well-ventilated place.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Special labelling of certain preparations:**
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.
- **Classification in accordance with Directive 75/324/EEC:** Extremely flammable

4 First aid measures

- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 3)

Safety data sheet

According to 91/155 EEC

Printing date 01.09.2015

Revision: 01.09.2015

Trade name: CHAIN WAX 375 ml

(Contd. of page 2)

- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized 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.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

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

71-43-2 benzene

OEL (South Africa) Long-term value: 3 mg/m³, 1 ppm

106-97-8 butane, pure

OEL (South Africa) Short-term value: 1780 mg/m³, 750 ppm
Long-term value: 1430 mg/m³, 600 ppm

(Contd. on page 4)

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Safety data sheet

According to 91/155 EEC

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Revision: 01.09.2015

Trade name: CHAIN WAX 375 ml

(Contd. of page 3)

108-88-3 toluene

OEL (South Africa)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 188 mg/m ³ , 50 ppm Sk
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **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.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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

9 Physical and chemical properties

- **General Information**

- **Appearance:**

Form:	Aerosol
Colour:	As per product specification
Odour:	Characteristic
Odour threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	0 °C

- **Flash point:** -60 °C

(Contd. on page 5)

Safety data sheet

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Revision: 01.09.2015

Trade name: CHAIN WAX 375 ml

(Contd. of page 4)

· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	365 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	8.5 Vol %
· Vapour pressure at 20 °C:	2100 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	54.0 %
VOC (EC)	54.00 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
71-43-2 benzene		
Oral	LD50	4894 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
Inhalative	LC50/4 h	9980 mg/l (mouse)
108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

(Contd. on page 6)

Safety data sheet

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Revision: 01.09.2015

Trade name: CHAIN WAX 375 ml

(Contd. of page 5)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing 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:
Harmful

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Harmful to aquatic organisms

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|---------------------|
| · UN-Number | UN1950 |
| · ADR, IMDG, IATA | |
| · UN proper shipping name | 1950 AEROSOLS |
| · ADR | AEROSOLS |
| · IMDG | AEROSOLS |
| · IATA | AEROSOLS, flammable |

- **Transport hazard class(es)**

- **ADR**



- **Class** 2 5F Gases.

(Contd. on page 7)

Safety data sheet


According to 91/155 EEC

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Revision: 01.09.2015

Trade name: CHAIN WAX 375 ml

(Contd. of page 6)

· Label	2.1
· IMDG, IATA	
	
· Class	2.1
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· Packing group	-
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Gases.
· Danger code (Kemler):	-
· EMS Number:	F-D,S-U
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Transport category	2
· Tunnel restriction code	D

15 Regulatory information

- **Labelling according to EU guidelines:**
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- **Hazard-determining components of labelling:**
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- **Special labelling of certain preparations:**
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(Contd. on page 8)

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Trade name: CHAIN WAX 375 ml

(Contd. of page 7)

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

· **Classification in accordance with Directive 75/324/EEC:** *Extremely flammable*

· **National regulations:**

Class	Share in %
III	30.0
NK	24.0

16 Other information

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**

H220 *Extremely flammable gas.*

H226 *Flammable liquid and vapour.*

H413 *May cause long lasting harmful effects to aquatic life.*

R10 *Flammable.*

R11 *Highly flammable.*

R12 *Extremely flammable.*

R36/38 *Irritating to eyes and skin.*

R38 *Irritating to skin.*

R45 *May cause cancer.*

R46 *May cause heritable genetic damage.*

R48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*

R48/23/24/25 *Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.*

R53 *May cause long-term adverse effects in the aquatic environment.*

R63 *Possible risk of harm to the unborn child.*

R65 *Harmful: may cause lung damage if swallowed.*

R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing MSDS:**

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