

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.06.2017

V - 2

Revision: 16.06.2017

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

- **1.1 Product identifier**
 - **Trade name:** YACHTCARE ANTIFOULING STRIPPER
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
 - **Application of the substance / the mixture** Paint remover
 - **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
Vosschemie GmbH
Esinger Steinweg 50
D-25436 Uetersen
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de
 - **Further information obtainable from:**
Abteilung Labor / +49 (0)4122 717 0
s.schaller@vosschemie.de
 - **1.4 Emergency telephone number:**
Gif tinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240
-

SECTION 2: Hazards identification

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

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· Hazard pictograms



GHS02

· Signal word Warning

· Hazard statements

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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

P102 Keep out of reach of children.

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

P273 Avoid release to the environment.

P403+P235 Store in a well-ventilated place. Keep cool.

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

· 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:

CAS: 1119-40-0 EINECS: 214-277-2 Reg.nr.: 01-2119900156-49	dimethyl glutarate	25-50%
CAS: 111-90-0 EINECS: 203-919-7 Reg.nr.: 01-2119475105-42	Carbitol	10-<20%
CAS: 627-93-0 EINECS: 211-020-6 Reg.nr.: 01-2119911093-50	dimethyl adipate	10-<20%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	3.0-<10%
CAS: 110-12-3 EINECS: 203-737-8 Reg.nr.: 01-2119472300-51	5-methylhexan-2-one ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332	3.0-<10%

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

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Personal protection for the First Aider.
Take affected persons out of danger area and lay down.
Immediately remove any clothing soiled by the product.
- **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:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:** *Do not induce vomiting; call for medical help immediately.*
- **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:**
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*
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid contact with the eyes and skin.
- **6.2 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.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.

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Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

· 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.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Use only in well ventilated areas.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may form in empty receptacles.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Ground/bond container and receiving equipment.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

· 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:

110-12-3 5-methylhexan-2-one

WEL (Great Britain) Short-term value: 475 mg/m³, 100 ppm

Long-term value: 95 mg/m³, 20 ppm

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IOELV (EU)

Long-term value: 95 mg/m³, 20 ppm

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· DNELs		
1119-40-0 dimethyl glutarate		
Inhalative	Long-term exposure - local effects	5 mg/m ³ (general population) 8.3 mg/m ³ (worker)
111-90-0 Carbitol		
Oral	Long-term exposure - systemic effects	25 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	25 mg/kg bw/day (general population) 50 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	18.3 mg/m ³ (general population) 37 mg/m ³ (worker)
	Long-term exposure - local effects	9 mg/m ³ (general population) 18 mg/m ³ (worker)
627-93-0 dimethyl adipate		
Inhalative	Long-term exposure - systemic effects	5 mg/m ³ (general population) 8.3 mg/m ³ (worker)
Hydrocarbons, C9, aromatics		
Oral	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/day (general population) 25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	32 mg/m ³ (general population) 150 mg/m ³ (worker)
110-12-3 5-methylhexan-2-one		
Oral	Long-term exposure - systemic effects	7.25 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	7.25 mg/kg bw/day (general population) 8 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	25.2 mg/m ³ (general population) 95 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	733.0 mg/m ³ (general population) 818 mg/m ³ (worker)

· PNECs		
1119-40-0 dimethyl glutarate		
PNEC aqua	0.031 mg/l (freshwater)	
	0.0031 mg/l (marine water)	
	0.31 mg/l (intermittent releases)	
PNEC sediment	0.15 mg/kg (freshwater)	
	0.015 mg/kg (marine water)	
PNEC soil	0.113 mg/kg (soil dw)	
111-90-0 Carbitol		
PNEC aqua	0.74 mg/l (freshwater)	
	0.074 mg/l (marine water)	
	10 mg/l (intermittent releases)	
PNEC sediment	2.47 mg/kg (freshwater)	

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PNEC STP	0.274 mg/kg (marine water) 500 mg/l
PNEC soil	0.15 mg/kg (soil dw)
627-93-0 dimethyl adipate	
PNEC aqua	0.018 mg/l (freshwater) 0.0018 mg/l (marine water) 0.18 mg/l (intermittent releases)
PNEC sediment	0.16 mg/kg (freshwater)
110-12-3 5-methylhexan-2-one	
PNEC aqua	0.1 mg/l (freshwater) 0.01 mg/l (marine water) 1 mg/l (intermittent releases)
PNEC sediment	1.12 mg/kg (freshwater) 0.112 mg/kg (marine water)
PNEC STP	100 mg/l
PNEC soil	0.166 mg/kg (soil dw)

· **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

Store protective clothing separately.

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Ensure good ventilation/exhaustion at the workplace.

Adhere to the workplace limit values and / or other threshold values.

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.

Filter A/P2

· **Protection of hands:**



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

· **Material of gloves**

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.4 mm

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

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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**

Value for the permeation: Level ≤ 6 (> 480 min, EN 374)

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

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Fluid
Colour:	Cloudy
Odour:	Characteristic

· **pH-value:** Not determined

· **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	> 144 °C

· **Flash point:** > 36 °C

· **Ignition temperature:** 190 °C

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower:	1.2 Vol %
Upper:	11.6 Vol %

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 1 g/cm³

· **Vapour density:** Not determined

· **Solubility in / Miscibility with water:**

Emulsifiable.

· **Partition coefficient: n-octanol/water:** Not determined

· **Viscosity:**

Dynamic:	Not determined
Kinematic:	Not determined

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· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with strong acids and alkali.
Reacts with strong oxidising agents.
Used empty containers may contain product gases which form explosive mixtures with air.
Forms flammable gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

1119-40-0 dimethyl glutarate

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 11 mg/l (rat)

111-90-0 Carbitol

Oral	LD50	5500 mg/kg (rat)
Dermal	LD50	9143 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 5.2 mg/l (rat)

627-93-0 dimethyl adipate

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 11 mg/l (rat)

Hydrocarbons, C9, aromatics

Oral	LD 50	3492 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 3160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 /4h	> 6193 mg/m ³ (rat) (OECD Guideline 403, vapour)

110-12-3 5-methylhexan-2-one

Oral	LD50	5657 mg/kg (rat)
Dermal	LD 50	> 10 mg/kg (rabbit)
Inhalative	LC50 /4h	5000 ppm (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Generally the product does not irritate the skin.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

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· Subacute to chronic toxicity:

110-12-3 5-methylhexan-2-one

Oral	NOEL	200 mg/kg (rat) (90d)
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- **Additional toxicological information:** No further relevant information available.
- **Sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1119-40-0 dimethyl glutarate

EC50/48h	> 112 mg/l (daphnia magna)
EC50/72h	> 85 mg/l (algae)
LC50/96h (static)	30.9 mg/l (fish)

111-90-0 Carbitol

EC10	4000 mg/l (bacteria) (16h)
EC50/48h	1982 mg/l (daphnia magna)
EC50/96h	> 100 mg/l (desmodesmus subspicatus)
LC50/96h	6010 mg/l (Ictalurus punctatus)
	12900 mg/l (oncorhynchus mykiss)

627-93-0 dimethyl adipate

EC50/72h	112 - 150 mg/l (daphnia)
LC50/96h	18 - 24 mg/l (fish)

Hydrocarbons, C9, aromatics

EC50/48h	4.5 mg/l (daphnia magna)
EL50/48h	3.2 mg/l (daphnia) (OECD Guideline 202, mobility)
EL50/72h	2.9 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LL50/96h	9.2 mg/l (oncorhynchus aguabonita) (OECD Guideline 203)
	8.2 mg/l (pimephales promelas)
NOEC	0.5 mg/l (Pseudokirchneriella subcapitata) (72h)
	0.5 mg/l (daphnia magna) (48h)
	2.6 mg/l (pimephales promelas) (14d)
NOELR (aqua chron.)	2.144 mg/l (daphnia magna) (21d, calculated by a computer model)

110-12-3 5-methylhexan-2-one

EC50/48h	> 100 mg/l (daphnia magna) (OECD 202)
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EC50/72h	> 100 mg/l (<i>Pseudokirchneriella subcapitata</i>) (OECD 201)
LC50/96h	159 mg/l (<i>pimephales promelas</i>)
NOEC (aqua chron.)	> 91 mg/l (<i>daphnia magna</i>) (OECD 211)

· 12.2 Persistence and degradability

111-90-0 Carbitol

Biodegradation 90 % (OECD 301 E)

Hydrocarbons, C9, aromatics

Biodegradation > 70 % (OECD Guideline 301 F, 28d)

110-12-3 5-methylhexan-2-one

Biodegradation 67 % (OECD 301 D, 28d)

· 12.3 Bioaccumulative potential

111-90-0 Carbitol

log Pow < 1

log Kow -0.54

BCF < 100

· Behaviour in environmental systems:

· 12.4 Mobility in soil

110-12-3 5-methylhexan-2-one

log Koc 2.16

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

· 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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.

· Waste disposal key:

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· European waste catalogue

08 01 21*	waste paint or varnish remover
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· Uncleaned packaging:

· **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (5-METHYLHEXAN-2-ONE, Solvent naphtha (petroleum), light arom.) FLAMMABLE LIQUID, N.O.S. (5-METHYLHEXAN-2-ONE, Solvent naphtha (petroleum), light arom.)
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Flammable liquids. 30 F-E,S-E
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	5L 3 D/E

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.
- Seveso category P5c FLAMMABLE LIQUIDS
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 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**

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

• **Classification according to Regulation (EC) No 1272/2008**

- Flam. Liq. 3, H226
- Aquatic Chronic 3, H412

Classification procedure

- Bridging principle "Substantially similar mixtures"
- Calculation method

• **Department issuing SDS:** Abteilung Labor

• **Contact:** Frau S. Schaller

• **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- 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)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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