

1 Identification of the substance/mixture and of the company/undertaking**Product identifier****Article number:** EN 1100 ANTICHIP UNDERBODY COATING**Relevant identified uses of the substance or mixture and uses advised against****Sector of Use****SU22** Professional uses: Public domain (administration, education, entertainment, services, craftsmen)**Product category PC9a** Coatings and paints, thinners, paint removers**Process category****PROC9** Transfer of substance or preparation into small containers (dedicated filling line, including weighing)**Environmental release category ERC2** Formulation of preparations**Article category AC1** Vehicles**Application of the substance / the preparation**

Sealant

Surface protection

Details of the supplier of the safety data sheet**Manufacturer/Supplier:****EN CHEMICALS S.A****57,009 KALOCHORI****THESSALONIKI, GREECE****Ph: +30 2310 755 428****email: sales@enchemicals.com****Further information obtainable from:****EN CHEMICALS S.A****57,009 KALOCHORI****THESSALONIKI, GREECE****Ph: +30 2310 755 428****email: sales@enchemicals.com****Emergency telephone number: +30 2310 755 428****2 Hazards identification****Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008****GHS02 flame****Flam. Liq. 2** **H225** **Highly flammable liquid and vapour.****GHS08 health hazard****Repr. 2** **H361d** **Suspected of damaging the unborn child.****STOT RE 2** **H373** **May cause damage to organs through prolonged or repeated exposure.****Asp. Tox. 1** **H304** **May be fatal if swallowed and enters airways.****GHS07****Skin Irrit. 2** **H315** **Causes skin irritation.****Aquatic Chronic 3** **H412** **Harmful to aquatic life with long lasting effects.****Classification according to Directive 67/548/EEC or Directive 1999/45/EC****Xn; Harmful****R48/20-63-65:** **Harmful: danger of serious damage to health by prolonged exposure through inhalation.**
Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed.**Xi; Irritant****R38:** **Irritating to skin.**

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**F; Highly flammable****R11:** Highly flammable.**R52/53-67:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.*Information concerning particular hazards for human and environment:*

In the gas volume of sealed packages vapours of flammable solvents, especially at action of heat, may accumulate. Keep away fire and ignition sources.

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.

Classification system:

The classification is according to the latest editions of the EU-lists adapting Directive 67/548/EEC on the classification, packaging and labelling of dangerous substances and extended by company and literature data.

*Label elements**Labelling according to EU guidelines:*

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

toluene








*Risk phrases:***11** Highly flammable.**48/20** Harmful: danger of serious damage to health by prolonged exposure through inhalation.**52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**63** Possible risk of harm to the unborn child.**65** Harmful: may cause lung damage if swallowed.**67** Vapours may cause drowsiness and dizziness.**38** Irritating to skin.*Safety phrases:***7/9** Keep container tightly closed and in a well-ventilated place.**16** Keep away from sources of ignition - No smoking.**23** Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).**25** Avoid contact with eyes.**36/37** Wear suitable protective clothing and gloves.**51** Use only in well-ventilated areas.**61** Avoid release to the environment. Refer to special instructions/safety data sheets.*Other hazards**Results of PBT and vPvB assessment***PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients***Chemical characterization: Mixtures**Description:* Mixture of hazardous substances*Dangerous components:*

CAS: 123-86-4	n-butyl acetate	10-15%
EINECS: 204-658-1	R10-66-67	
Index number: 607-025-00-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	

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CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane  Xn R48/20-62-65;  Xi R38;  F R11;  N R51/53 R67 Repr. Cat. 3  Flam. Liq. 2, H225;  Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	10-15%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene  Xn R48/20-63-65;  Xi R38;  F R11 R67 Repr. Cat. 3  Flam. Liq. 2, H225;  Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304;  Skin Irrit. 2, H315; STOT SE 3, H336	5-9%
CAS: 68131-99-7	polymer R18	< 2.5%
CAS: 95-63-6 EINECS: 202-436-9 Index number: 601-043-00-3	1,2,4-trimethylbenzene  Xn R20;  Xi R36/37/38;  N R51/53 R10  Flam. Liq. 3, H226;  Aquatic Chronic 2, H411;  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 2.5%
CAS: 108-67-8 EINECS: 203-604-4 Index number: 601-025-00-5	mesitylene  Xi R37;  N R51/53 R10  Flam. Liq. 3, H226;  Aquatic Chronic 2, H411;  STOT SE 3, H335	< 2.5%
CAS: 98-82-8 EINECS: 202-704-5 Index number: 601-024-00-X	cumene  Xn R65;  Xi R37;  N R51/53 R10  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H335	< 2.5%
CAS: 103-65-1 EINECS: 203-132-9 Index number: 601-024-00-X	propylbenzene  Xn R65;  Xi R37;  N R51/53 R10  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H335	< 2.5%

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

4 First aid measures

Description of 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; 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.

After swallowing: If symptoms persist consult doctor.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

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

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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:

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

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

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.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Store in a cool location.

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.

* 8 Exposure controls/personal protection

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

Control parameters

Ingredients with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppm

Long-term value: 724 mg/m³, 150 ppm

110-54-3 n-hexane

WEL Long-term value: 72 mg/m³, 20 ppm

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm

Long-term value: 191 mg/m³, 50 ppm

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

Exposure controls

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.

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

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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****Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 69°C

Flash point: -26°C

Autoignition temperature: 370°C

Self-igniting: Product is not selfigniting.

Danger of explosion: Risk of explosion by shock, friction, fire or other sources of ignition.

Explosion limits:

Lower: 1.2 Vol %

Upper: 7.5 Vol %

Vapour pressure at 20°C: 29 hPa

Density at 20°C: 1.276 g/cm³

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Solvent content:

Organic solvents: 23.3 %

Water: 0.1 %

VOC (EC) 459.2 g/l

Solids content (volume): 76.6 %

10 Stability and reactivity**Reactivity****Chemical stability**

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information*Information on toxicological effects**Acute toxicity:**LD/LC50 values relevant for classification:***123-86-4 n-butyl acetate**

Oral	LD50	13100 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21.0 mg/l (rat)

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

*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:

12 Ecological information*Toxicity**Aquatic toxicity:* No further relevant information available.*Ecotoxicological effects:**Remark:* Harmful to fish*Additional ecological information:**General notes:*

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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.

Harmful to aquatic organisms

*Results of PBT and vPvB assessment**PBT:* Not applicable.*vPvB:* Not applicable.**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***Land transport ADR/RID (cross-border)**ADR/RID class:* 3 (F1) Flammable liquids.*Danger code (Kemler):* 33*UN-Number:* 1263*Packaging group:* II*Hazard label:* 3*UN proper shipping name:* 1263 PAINT

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Tunnel restriction code D/E**Maritime transport IMDG:**

IMDG Class: 3
UN Number: 1263
Label 3
Packaging group: II
EMS Number: F-E,S-E
Marine pollutant: No
Proper shipping name: PAINT

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 3
UN/ID Number: 1263
Label 3
Packaging group: II
Proper shipping name: PAINT

UN "Model Regulation": UN1263, PAINT, 3, II

Special precautions for user Warning: Flammable liquids.

* **15 Regulatory information**

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* **16 Other information**

This information is based on our current 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.
 H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.
 H361f Suspected of damaging fertility.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.
 R11 Highly flammable.
 R18 In use, may form flammable/explosive vapour-air mixture.
 R20 Harmful by inhalation.
 R36/37/38 Irritating to eyes, respiratory system and skin.
 R37 Irritating to respiratory system.
 R38 Irritating to skin.
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R62 Possible risk of impaired fertility.
 R63 Possible risk of harm to the unborn child.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.

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R67 Vapours may cause drowsiness and dizziness.**Department issuing MSDS: Department of Quality Control****Contact:****EN CHEMICALS S.A****57,009 KALOCHORI****THESSALONIKI, GREECE****Ph: +30 2310 755 428****email: sales@enchemicals.com****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)****RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)****IMDG: International Maritime Code for Dangerous Goods****IATA: International Air Transport Association****IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)****ICAO: International Civil Aviation Organization****ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)****GHS: Globally Harmonized System of Classification and Labelling of Chemicals****VOC: Volatile Organic Compounds (USA, EU)****LC50: Lethal concentration, 50 percent****LD50: Lethal dose, 50 percent***** Data compared to the previous version altered.**

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