

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

Printing date 25.04.2013



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Revision: 25.04.2013

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

- **Product identifier**
 - **Trade name:** *CARSYSTEM ETCH PRIMER*
 - **Relevant identified uses of the substance or mixture and uses advised against** *Not determined*
 - **Application of the substance / the preparation** *Priming*
 - **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
 - **Emergency telephone number:**
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240, +49 (0)551 383180
-

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  *Xi; Irritant*
R41: Risk of serious damage to eyes.
 -  *F+; Extremely flammable*
R12: Extremely flammable.
 - R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.*
- **Information concerning particular hazards for human and environment:**
Has a narcotizing effect.

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At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

Warning! Pressurized container.

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, 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:**



Xi Irritant
F+ Extremely flammable

· **Risk phrases:**

- 12 Extremely flammable.
- 41 Risk of serious damage to eyes.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe spray.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 39 Wear eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

· **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.

Buildup of explosive mixtures possible without sufficient ventilation.

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

· **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 substances listed below with nonhazardous additions.

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· Dangerous components:		
CAS: 71-23-8 EINECS: 200-746-9 Reg.nr.: 01-2119486761-29	propan-1-ol Xi R41; F R11 R67 Flam. Liq. 2, H225; Eye Dam. 1, H318; STOT SE 3, H336	10-25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49 02-2119752542-40	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	2.5-10%
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether F+ R12 Flam. Gas 1, H220; Press. Gas, H280	2.5-10%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	butanol Xi R37/38-41 R10-67 Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing ≤ 0.1% butadiene (203-450-8)) F+ R12 Flam. Gas 1, H220; Press. Gas, H280	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	2.5-10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate R10 Flam. Liq. 3, H226	2.5-10%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38	butan-1-ol Xn R22; Xi R37/38-41 R10-67 Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-10%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35	1-methoxy-2-propanol R10-67 Flam. Liq. 3, H226; STOT SE 3, H336	1.0-2.5%

· **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:**

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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- **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:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **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
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Ensure adequate ventilation
Do not inhale gases / fumes / aerosols.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid contact with the eyes and skin.
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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**
Open and handle receptacle with care.

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Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

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

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· Information about fire - and explosion protection:

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Fumes can combine with air to form an explosive mixture.

Protect from heat.

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

Keep ignition sources away - Do not smoke.

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.

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.

Observe official regulations on storing packagings with pressurized containers.

· Information about storage in one common storage facility: Store away from foodstuffs.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

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.

· Control parameters

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

71-23-8 propan-1-ol

WEL (Great Britain)	Short-term value: 625 mg/m ³ , 250 ppm Long-term value: 500 mg/m ³ , 200 ppm Sk
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67-64-1 acetone

WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm

115-10-6 dimethyl ether

WEL (Great Britain)	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
IOELV (EU)	Long-term value: 1920 mg/m ³ , 1000 ppm

78-83-1 butanol

WEL (Great Britain)	Short-term value: 231 mg/m ³ , 75 ppm Long-term value: 154 mg/m ³ , 50 ppm
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106-97-8 butane (containing $\leq 0.1\%$ butadiene (203-450-8))

<i>WEL (Great Britain)</i>	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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108-65-6 2-methoxy-1-methylethyl acetate

<i>WEL (Great Britain)</i>	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
<i>IOELV (EU)</i>	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin

71-36-3 butan-1-ol

<i>WEL (Great Britain)</i>	Short-term value: 154 mg/m ³ , 50 ppm Sk
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107-98-2 1-methoxy-2-propanol

<i>WEL (Great Britain)</i>	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk
<i>IOELV (EU)</i>	Short-term value: 568 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Skin

· DNELs
71-23-8 propan-1-ol

<i>Oral</i>	Long-term exposure - systemic effects	61 mg/kg bw/day (general population)
<i>Dermal</i>	Long-term exposure - systemic effects	81 mg/kg bw/day (general population) 136 mg/kg bw/day (worker)
<i>Inhalative</i>	Acute/short-term exposure - systemic effects	1036 mg/m ³ (general population) 1723 mg/m ³ (worker)
	Long-term exposure - systemic effects	80 mg/m ³ (general population) 268 mg/m ³ (worker)

67-64-1 acetone

<i>Oral</i>	Long-term exposure - systemic effects	62 mg/kg bw/day (general population)
<i>Dermal</i>	Long-term exposure - systemic effects	62 mg/kg bw/day (general population) 186 mg/kg bw/day (worker)
<i>Inhalative</i>	Acute/short-term exposure - local effects	2420 mg/m ³ (worker)
	Acute/short-term exposure - systemic effects	1210 mg/m ³ (worker)
	Long-term exposure - systemic effects	200 mg/m ³ (general population) 1210 mg/m ³ (worker)

108-65-6 2-methoxy-1-methylethyl acetate

<i>Oral</i>	Long-term exposure - systemic effects	1.67 mg/kg bw/day (general population)
<i>Dermal</i>	Long-term exposure - systemic effects	54.8 mg/kg bw/day (general population) 153.5 mg/kg bw/day (worker)
<i>Inhalative</i>	Long-term exposure - systemic effects	33 mg/m ³ (general population) 275 mg/m ³ (worker)

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· PNECs	
71-23-8 propan-1-ol	
PNEC STP	96 mg/l (-)
PNEC aqua	10 mg/l (freshwater) 1 mg/l (marine water)
PNEC sediment	22.8 mg/kg (freshwater) 2.28 mg/kg (marine water)
PNEC soil	2.2 mg/kg (soil dw)
67-64-1 acetone	
PNEC STP	100 mg/l (-)
PNEC aqua	10.6 mg/l (freshwater) 1.06 mg/l (marine water) 21 mg/l (intermittent releases)
PNEC sediment	30.4 mg/kg (freshwater) 3.04 mg/kg (marine water)
PNEC soil	29.5 mg/kg (-)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC STP	100 mg/l (-)
PNEC aqua	0.635 mg/l (freshwater)
PNEC sediment	3.29 mg/kg (freshwater) 0.329 mg/kg (marine water)
PNEC soil	0.29 mg/kg (soil dw)

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

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Do not eat, drink, smoke or sniff while working.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.
- Use skin protection cream for skin protection.

· **Respiratory protection:**

- Ensure good ventilation/exhaustion at the workplace.
- Adhere to the workplace limit values and / or other threshold values.
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- 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.

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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

Preventive skin protection by use of skin-protecting agents is recommended.

· **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

· **Body protection:** Protective work clothing

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Aerosol

Colour: Grey

· **Odour:** Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** 240 °C

· **Self-igniting:** Product is not selfigniting.

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

· **Explosion limits:**

Lower: 2.1 Vol %

Upper: 13.5 Vol %

· **Vapour pressure at 20 °C:** 4000 hPa

· **Density at 20 °C:** 0.79 g/cm³

· **Solubility in / Miscibility with**

water: Not miscible or difficult to mix.

Organic solvents: 89.4 %

Solids content: 10.6 %

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· **Other information** No further relevant information available.**10 Stability and reactivity**

- **Reactivity** No decomposition if used and stored according to specifications.
- **Chemical stability** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Forms explosive gas mixture with air.
Danger of bursting.
- **Conditions to avoid** Avoid naked flames, sparks, other ignition sources and sunlight.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

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

· **LD/LC50 values relevant for classification:****71-23-8 propan-1-ol**

Oral	LD50	1870 mg/kg (rat)
Dermal	LD50	5040 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 33.8 mg/l (rat)

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 7400 mg/kg (rat) > 15800 mg/kg (rabbit)
Inhalative	LC50 /4h	76 mg/l (rat)

74-98-6 propane

Inhalative	LC 50 / 4h	> 31 mg/l (rat) (vapour)
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115-10-6 dimethyl ether

Inhalative	LC50 /4h	308 mg/l (rat)
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78-83-1 butanol

Oral	LD50	2460 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)

106-97-8 butane (containing ≤ 0.1% butadiene (203-450-8))

Inhalative	LC 50 / 4h	> 31 mg/l (rat) (vapour)
	LC50 /4h	> 13023 ppm (rat)

75-28-5 isobutane

Inhalative	LC50 /4h	> 13023 ppm (rat) (vapour)
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108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD 50	> 5000 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat) > 5000 mg/kg (rabbit)
Inhalative	LC0 /6h	> 4345 mg/l (rat) (6h, Vapour)

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	LC50 /4h	35.7 mg/l (rat)
	LC50 /6h	>23.8 mg/l (rat)
71-36-3 butan-1-ol		
Oral	LD50	2292 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)
Inhalative	LC50 /4h	25 mg/m ³ (rat)
107-98-2 1-methoxy-2-propanol		
Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	13000 mg/kg (rabbit)
Inhalative	LC50 /4h	6 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Strong irritant with the danger of severe eye injury.

- **Subacute to chronic toxicity:**

67-64-1 acetone

Oral NOAEL 900 mg/kg (rat) (OECD 408, rat (male), 13 weeks)

- **Additional toxicological information:**

Vapours may cause drowsiness and dizziness.

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:

Irritant

- **Sensitisation** No sensitizing effects known.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

71-23-8 propan-1-ol

EC0 2700 mg/l (*pseudomonas putida*) (16h)
 EC50 3100 mg/l (*scenedesmus subspicatus*) (168 h)
 > 10000 mg/l (bacteria) (16h)
 EC50/48h 3644 mg/l (*daphnia magna*) (67/548/EWG, appendix V,C.2.)
 LC50/96h 4480 mg/l (*pimephales promelas*)

67-64-1 acetone

EC10 530 mg/l (*Microcystis aeruginosa*) (8 d)
 EC10/0,5h 1000 mg/l (bacteria)
 EC50/48h 8800 mg/l (*daphnia*)
 LC50/96h 8300 mg/l (*Lepomis macrochirus*)
 5540 mg/l (*oncorhynchus mykiss*)
 NOEC 430 mg/l (algae) (96 h)
 2212 mg/l (*daphnia magna*) (OECD 211, 28 d)

115-10-6 dimethyl ether

EC50/48h > 4.4 mg/l (*daphnia magna*)
 LC50/96h > 4.1 mg/l (*poecilia reticulata*)

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108-65-6 2-methoxy-1-methylethyl acetate

EC10/0,5h	>1000 mg/l (activated slugde) (OECD 209)
EC50/48h	>500 mg/l (daphnia magna) (67/548/EWG Apendix V, C.2.)
EC50/72h	> 1000 mg/l (Senastrum capricornutum) (OECD- 201)
LC50/96h	134 mg/l (oncorhynchus mykiss) (OECD- 203)
	> 100 mg/l (Oryzias latipes) (OECD 203)
NOEC	≥ 100 mg/l (daphnia magna) (21d, OECD 202)
	47.5 mg/l (Oryzias latipes) (14d, OECD 204)

71-36-3 butan-1-ol

EC50/48h	1983 mg/l (daphnia magna)
EC50/72h	> 500 mg/l (Pseudokirchneriella subcapitata)

· **Persistence and degradability****71-23-8 propan-1-ol**

Biodegradation	83 - 92 % (-) (OECD 301 F)
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67-64-1 acetone

BSB (BOD)	1760 mg/g (-)
Biodegradation	91 % (-) (OECD 301B, 28 d)

108-65-6 2-methoxy-1-methylethyl acetate

BSB	83 % (activated slugde) (28d, OECD 301 F)
Biodegradation	100 % (-) (OECD 302, 8d)

· **Behaviour in environmental systems:**· **Bioaccumulative potential****67-64-1 acetone**

BCF	3 (-)
log Pow	-0.24 (-)

106-97-8 butane (containing ≤ 0.1% butadiene (203-450-8))

log Pow	2.8 (-)
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108-65-6 2-methoxy-1-methylethyl acetate

Kow	0.43 (-)
log Pow	0.43 (-)

· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:** Do not allow product to reach ground water, water course or sewage system.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Waste treatment methods**· **Recommendation**

Disposal must be made according to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· **European waste catalogue**

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

· **Uncleaned packaging:**

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

14 Transport information

· **UN-Number**

· **ADR, IMDG, IATA** 1950

· **UN proper shipping name**

· **ADR** 1950 AEROSOLS
· **IMDG** AEROSOLS
· **IATA** AEROSOLS, flammable

· **Transport hazard class(es)**

· **ADR**



· **Class** 2 5F Gases.
· **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1
· **Label** 2.1

· **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)** LQ2
· **Transport category** 2
· **Tunnel restriction code** D

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Trade name: **CARSYSTEM ETCH PRIMER**

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European regulations**
- **Directive 2004/42/EC 2004/42/IIB (e) (840) <840**
- **National regulations:**
- **Information about limitation of use:**
 - Employment restrictions concerning juveniles must be observed.
 - Employment restrictions concerning pregnant and lactating women must be observed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H280 Contains gas under pressure; may explode if heated.
 - H302 Harmful if swallowed.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.
- **R10 Flammable.**
- **R11 Highly flammable.**
- **R12 Extremely flammable.**
- **R22 Harmful if swallowed.**
- **R36 Irritating to eyes.**
- **R37/38 Irritating to respiratory system and skin.**
- **R41 Risk of serious damage to eyes.**
- **R66 Repeated exposure may cause skin dryness or cracking.**
- **R67 Vapours may cause drowsiness and dizziness.**
- **Department issuing MSDS:** 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 Organization
 - 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
 - DNEL: Derived No-Effect Level (REACH)
 - PNEC: Predicted No-Effect Concentration (REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
- *** Data compared to the previous version altered.**