

SAFETY DATA SHEET

according to Regulation (EU) 2015/830



Date of issue 02/09/2017
Updated 02/07/2021
Replaces the release of 25.05.2018
Trade name Item-No. 500908141 Carson Paint Killer Spray / Paint Remover 200 ml
Manufacturer/Distributor TAMIYA-CARSON Modellbau GmbH & Co. KG, D – 90765 Fürth
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SECTION 1 Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier**
Carson Paint Killer Spray / Paint Remover 200 ml
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
The use results from the product identifier.
- 1.3 Details of the supplier of the safety data sheet**
- | | |
|--------------------------|---------------------------------------|
| Manufacturer/Distributor | TAMIYA-CARSON Modellbau GmbH & Co. KG |
| Address/POB | Werkstraße 1 |
| IVR/ZIP/Place | D – 90765 Fürth |
| E-mail | tamiya@tamiya.de |
| Telephone | +49 (0) 911 9765 – 03 |
| Fax | +49 (0) 911 9765 – 285 |
| Department of MSDS | info@chemieberatung.com |
- 1.4 Emergency telephone number**
- | | |
|---|------------------|
| Poison centre Munich | +49 (0) 89 19240 |
| Information centre for poisoning Berlin | +49 (0) 30 19240 |

SECTION 2 Hazards identification

- 2.1 Classification of the substance or mixture**
Aerosol, Hazard Category 1 (H222, H229) #
Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis (H336)
- 2.2 Label elements**

Signal word **Danger****Hazard statements**

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.

Precautionary statements #

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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection (safety goggles).
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Name of the ingredient(s) given on the warning label

1-Methoxypropan-2-ol. #

- 2.3 Other hazards**
Unknown.

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**SECTION 3 Composition/information on ingredients****3.1 Substances**

This product is a mixture.

3.2 Mixtures

Aerosols containing solvents.

Hazardous ingredients

1-Methoxypropan-2-ol

EC No 203-539-1

CAS No 107-98-2

Content 70 - 90 %

Classification codes

Flam. Liq. 3; H226 – STOT SE 3; H336

There are Union exposure limit values for this substance in the workplace (see section 8).

Butane

EC No 203-448-7

CAS No 106-97-8

Content 10 - 20 %

Classification codes

Flam. Gas 1; H220 – Press. Gas; H280

Ethyl acetate

EC No 205-500-4

CAS No 141-78-6

Content 1 - < 10 %

Classification codes

Flam. Liq. 2; H225 – Eye Irrit. 2; H319 – STOT SE 3; H336 – EUH066

There are Union exposure limit values for this substance in the workplace (see section 8).

Propane

EC No 200-827-9

CAS No 74-98-6

Content 1 - 10 %

Classification codes

Flam. Gas 1; H220 – Press. Gas; H280

Isobutane

EC No 200-857-2

CAS No 75-28-5

Content 1 - 10 %

Classification codes

Flam. Gas 1; H220 – Press. Gas; H280

The wording of the classification codes can be found in section 16.

SECTION 4 First aid measures**4.1 Description of first aid measures****General advice** Consult a physician. Show the attending physician this safety data sheet.**If inhaled** Remove the person to fresh air, in case of indisposition obtain medical advice.**Skin contact** In general, the product does not irritate the skin.**Eye contact** Spreading the eyelids, rinse thoroughly under running water and consult a doctor.**If swallowed** If symptoms persist, consult a doctor.**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.

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SECTION 5 Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

CO₂, solid extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

No further relevant information available. Collect contaminated extinguishing water separately; it must not enter the sewage system.

SECTION 6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Keep away unprotected persons.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.

6.4 Reference to other sections

Information on safe handling, see section 7.

Information on personal protection equipment, see section 8.

Information on disposal, see section 13.

SECTION 7 Handling and storage**7.1 Precautions for safe handling**

Open and handle the container.

Information on fire protection and explosion control

Do not spray onto a naked flame or any incandescent material. Keep away from ignition sources – Do not smoke. Take precautionary measures against static discharge. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C (e.g. electric lights). Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. The official regulations for the storage of aerosol dispensers must be observed.

7.3 Specific end uses

No data available.

SECTION 8 Exposure controls/personal protection**8.1 Control parameters****Component with workplace exposure limits according to (EU) 2017/164**

Ethyl acetate

EC No 205-500-4 CAS No 141-78-6

Limit value (8 h) 734 mg/m³ – 200 ppm

Limit value (15 min.) 1,468 mg/m³ – 400 ppm

Notation No notation.

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**Component with workplace exposure limits according to 2000/39/EC**

1-Methoxypropan-2-ol
 EC No 203-539-1 CAS No 107-98-2
 Limit value (8 h) 375 mg/m³ – 100 ppm
 Limit value (15 min.) 568 mg/m³ – 150 ppm
 Notation Risk of absorption by skin.

Components with workplace exposure limits according to TRGS 900 (Germany)

1-Methoxypropan-2-ol
 EC No 203-539-1 CAS No 107-98-2
 AGW 100 ml/m³ (ppm) – 370 mg/m³
 Peak limit
 Factor of exceeding 2(I)
 Remarks DFG, EU, Y

Butane
 EC No 203-448-7 CAS No 106-97-8
 AGW 1,000 ml/m³ (ppm) – 2,400 mg/m³
 Peak limit
 Factor of exceeding 4(II)
 Remarks DFG

Isobutane
 EC No 200-857-2 CAS No 75-28-5
 AGW 1,000 ml/m³ (ppm) – 2,400 mg/m³
 Peak limit
 Factor of exceeding 4(II)
 Remarks DFG

Propane
 EC No 200-827-9 CAS No 74-98-6
 AGW 1,000 ml/m³ (ppm) – 1,800 mg/m³
 Peak limit
 Factor of exceeding 4(II)
 Remarks DFG

Ethyl acetate
 EC No 205-500-4 CAS No 141-78-6
 AGW 200 ml/m³ (ppm) – 730 mg/m³
 Peak limit
 Factor of exceeding 2(I)
 Remarks DFG, EU, Y

Components with workplace exposure limits according to TRGS 903 (Germany)

1-Methoxypropan-2-ol
 EC No 203-539-1 CAS No 107-98-2
 Parameter 1-methoxypropan-2-ol
 BGW 15 mg/l
 Testing material urine
 Date of sampling end of exposure, resp. end of shift.

8.2 Exposure controls**Personal protective equipment****General protective and hygienic measures**

Wash hands before breaks and at the end of workday.

Respiratory protection Not necessary, if room is well-ventilated.

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**Hand protection**

The glove material must be impermeable and resistant to the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

Butyl rubber, recommended thickness of the material: $\geq 0,5$ 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 mixture 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

Value for the permeation: Level ≤ 6

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

Eye protection

Wear tightly closing eye protection.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not release the product into drains. Avoid the release into the environment.

SECTION 9 Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Aggregate state aerosol

Colour colourless

Odour like solvents

Melting point/melting range

Not available.

Initial boiling point/boiling range

Not applicable, as aerosol.

Flash point

- 60

°C

pH

(T = 20 °C)

Not applicable.

Flammability

Extremely flammable.

Ignition temperature

270

°C

Auto flammability

Not applicable.

Oxidising properties

Not applicable.

Explosive properties

Applies to vapour-air mixtures.

Explosion limits

lower

1.5

% by volume

upper

8.5

% by volume

Density

(T = 20 °C)

0.81

g/ml

Water solubility

(T = 20 °C)

The product is partially soluble.

Vapour pressure

(T = 20 °C)

3,600

hPa

Vapour density (air = 1)

Not available.

Partition coefficient (n-octanol/water)

Not available.

Viscosity

(T = 20 °C)

Not available.

Separation of solvent

Not applicable.

Content of solvents

100

%

Evaporation rate

Not available.

9.2 Other information

No data available.

SECTION 10 Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

This product is stable.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Risk of bursting in case of heating about 50 °C.

10.5 Incompatible materials

No further relevant information available.

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10.6 Hazardous decomposition products

In case of fire only, see section 5.2.

SECTION 11 Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

for ethyl acetate

LD₅₀ oral (rat) 5,620 mg/kg
LD₅₀ dermal (rabbit) > 18,000 mg/kg

for butane #

LC₅₀ inhalative (rat) 658 mg/l / 4 h**Skin corrosion/irritation**

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12 Ecological information**12.1 Toxicity**

for ethyl acetate #

LC₅₀ fish 328 mg/l / 96 h
LC₅₀ crustaceans 679 mg/l / 48 h
EC₅₀ algae 2,500 mg/l / 96 h

12.2 Persistence and degradability

The solvents are readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

According to the available information, the criteria for classification as PBT or vPvB are not fulfilled.

12.6 Other adverse effects

Spilling product harms waters by consumption of oxygen and general pollution impact.

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SECTION 13 Disposal considerations**13.1 Waste treatment methods**

Hazardous waste according to the European Waste Catalogue (2008/98/EC). If recycling is not possible, waste must be disposed of in accordance with local regulations. Do not dispose of in the waste water.

EU waste codes

16 05 04* Gases in pressure containers (including halons) containing dangerous substances.
15 01 04 Metallic packaging.

SECTION 14 Transport information**14.1 UN number**

1950

14.2 Proper shipping name**ADR/RID**

AEROSOLS

Tunnel restriction code (road)

(D)

Limited quantities according to ADR 3.4 #

one litre.

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)**ADR/RID** class 2 (5F) Label 2.1**IMDG, IATA** Class 2.1 Label 2.1**14.4 Packing group**

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Warning: gases.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulations of the EU**

Listed in Annex I to Directive 2012/18/EU on the control of major-accident hazards involving hazardous substances

Observe quantity thresholds for substance group P3a.

Regulation (EU) No 528/2012 concerning the placing of biocidal products on the market

Not applicable.

Regulation (EC) No 648/2004 (Regulation concerning detergents)

Not applicable.

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds

May be applicable.

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Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding
 Applicable.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
 Applicable.

Directive 94/33/EC on the protection of young people at work
 Applicable.

German Regulations

Technical instructions on Air Quality Control (TA Luft)	Observe threshold values of organic materials according to section 5.2.5 of the TA Luft
Water hazard class	WGK 1 (slightly hazardous to waters)
Storage class according to TRGS 510	LGK 2 B (aerosol packages) #

Other regulations, restrictions and prohibition ordinances

Observe leaflet M 017 of the Employer's Liability Insurance Association for Raw Materials and the Chemical Industry.

15.2 Chemical safety assessment

This mixture was not subject to a safety assessment.

SECTION 16 Other information**The wording of the classification codes of section 3**

Flam. Gas 1; H220	Flammable gases, Hazard Category 1; Extremely flammable gas.
Flam. Liq. 2; H225	Flammable liquids, Hazard Category 2; Highly flammable liquid and vapour.
Flam. Liq. 3; H226	Flammable liquids, Hazard Category 3; Flammable liquid and vapour.
Press. Gas; H280	Gases under pressure; Contains gas under pressure; may explode if heated.
Eye Irrit. 2; H319	Serious eye damage/eye irritation, Hazard Category 2; Causes serious eye irritation.
STOT SE 3; H336	Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Classification and methods used to derive the classification of the mixture according to Regulation (EC) 1272/2008 (CLP) #

<u>Classification</u>	<u>Assessment method used</u>
Aerosol 1; H222	Classification according to calculation procedure
Aerosol 1; H229	Classification based on shape or aggregate state
STOT SE 3; H336	Classification according to calculation procedure

Notes

This safety data sheet has been prepared on the basis of the applicable EU regulations and German regulations. It reflects the current state of knowledge and is not a contractual assurance of quality characteristics of the product.

Abbreviations

#	Indicates information that has changed since the last version.
AGW	Occupational limit value
BGW	Biological limit value at the workplace.
DFG	German Research Council (Committee on Occupational Limits Values).
EU	European Union.
LGK	Storage class.
PBT	Persistent, bioaccumulative and toxic.
TRGS	Technical regulation for dangerous substances.
vPvB	Very persistent and very bioaccumulative.
WGK	Water hazard class.
Y	A risk of fetal damage does not need to be feared if AGW and BGW are complied with.