

SAFETY DATA SHEET

according to Regulation (EU) 2015/830



Date of issue 09/02/2017
Updated 25/05/2018
Replaces the release of 09.02.2017
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)
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

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

Not necessary.

- 2.3 Other hazards**
Unknown.

SECTION 3 Composition/information on ingredients

- 3.1 Substances**
This product is a mixture.
- 3.2 Mixtures**
Aerosols containing solvents.

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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.

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.

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

Notation No notation.

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 ppmLimit 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

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Isobutane

EC No 200-857-2

AGW

Peak limit

Factor of exceeding

Remarks

CAS No 75-28-5

1,000 ml/m³ (ppm) – 2,400 mg/m³

4(II)

DFG

Propane

EC No 200-827-9

AGW

Peak limit

Factor of exceeding

Remarks

CAS No 74-98-6

1,000 ml/m³ (ppm) – 1,800 mg/m³

4(II)

DFG

Ethyl acetate

EC No 205-500-4

AGW

Peak limit

Factor of exceeding

Remarks

CAS No 141-78-6

200 ml/m³ (ppm) – 730 mg/m³

2(I)

DFG, EU, Y

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

1-Methoxypropan-2-ol

EC No 203-539-1

Parameter

BGW

Testing material

Date of sampling

CAS No 107-98-2

1-methoxypropan-2-ol

15 mg/l

urine

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.**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 glovesButyl 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 materialValue 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.

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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.

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 1-methoxypropan-2-ol

LD₅₀ oral (mouse) 11,700 mg/kgLD₅₀ dermal (rabbit) 13,000 mg/kgLC₅₀ inhalation (rat) 10,000 ppm / 5 h

for ethyl acetate

LD₅₀ oral (rat) 5,620 mg/kgLD₅₀ dermal (rabbit) > 18,000 mg/kgLC₅₀ inhalation (mouse) 45,000 mg/m³ / 2 h

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**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

Fish toxicity (oncorhynchus mykiss) LC₅₀ 360 – 600 mg/l / 96 hDaphnia toxicity (daphnia magna) EC₅₀ 560 mg/l / 48 hAlgae toxicity (selenastrum) EC₅₀ 1,800 – 3,200 mg/l / 72 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.

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.

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SECTION 14 Transport information

- 14.1 UN number**
1950
- 14.2 Proper shipping name**
ADR/RID
AEROSOLS
Tunnel restriction code (road)
(D)
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.

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.

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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 (low hazardous to waters)
Storage class according to TRGS 510	LGK 2 B (aerosols)

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.

Notes

The classification codes apply to the pure ingredients and do not necessarily indicate the classification of the mixture. The classification and labelling of the mixture are given in Section 2.

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

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.