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SAFETY DATA SHEET
according to 1907/2006/EC, Article 31

1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product details

Trade name: Bumper Spray

Article number: 26314, 26334 (black, grey)

Intended use: Car refinishing Product/ Paint

Manufacturer/Supplier: Chamäleon GmbH

Rudolf-Diesel-Straße, 8a, 69155 Heidelberg -- Germany

Further information obtainable from: Product Safety Department

Information in case of emergency: + 49 700241 12112 (CH)

2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36: Irritating 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:

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.



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At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurised container.

Has a narcotising effect.

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 Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07

Signal word: Danger

Hazard-determining components of labelling:

acetone

n-butyl acetate

butan-1-ol

Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P102 Keep out of reach of children.

P260 Do not breathe spray.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

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: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-xxxx | acetone Xi R36 F R11 R66-67 | 25-50% |
| | Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 | |
| CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37-xxxx | dimethyl ether F+ R12 | 12.5-20% |
| | Flam. Gas 1, H220; Flam. Liq. 1, H224 Press. Gas C, H280 | |
| CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-xxxx | n-butyl acetate R10-66-67 | 10-12.5% |
| | Flam. Liq. 3, H226 STOT SE 3, H336 | |
| CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx | propane F+ R12 | 5-10% |
| | Flam. Gas 1, H220 Press. Gas C, H280 | |
| CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-xxxx | 2-methoxy-1-methylethyl acetate R10 | 5-10% |
| | Flam. Liq. 3, H226 | |
| CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx | butane F+ R12 | 5-10% |
| | Flam. Gas 1, H220 Press. Gas C, H280 | |
| CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx | isobutane F+ R12 | 5-10% |
| | Flam. Gas 1, H220 Press. Gas C, H280 | |
| CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38-xxxx | butan-1-ol Xn R22 Xi R37/38-41 R10-67 | 1-2.5% |
| | Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336 | |
| CAS: 9004-70-0 | Nitrocellulose (nitrogen content <12.6%) F R11 | 1-2.5% |
| | Flam. Sol. 1, H228 | |



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

4- FIRST - AID MEASURE

Description of first aid measures

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. If symptoms persist, consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately

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- FIRE - FIGHTING MEASURE

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

No further relevant information available.

Advice for firefighters

Protective equipment: No special measures required.

6- ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Environmental precautions:

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

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:

Ensure adequate ventilation.

Reference to other sections



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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

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised 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.

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 pressurised containers.

Information about storage in one common storage facility: Not required

Further information about storage conditions: 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: | |
| 67-64-1 acetone | |
| WEL | Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm |
| 115-10-6 dimethyl ether | |
| WEL | Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm |
| 123-86-4 n-butyl acetate | |
| WEL | Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm |
| 108-65-6 2-methoxy-1-methylethyl acetate | |
| WEL | Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk |



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| | |
|--------------------|---|
| 106-97-8 butane | |
| WEL | 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) |
| 71-36-3 butan-1-ol | |
| WEL | Short-term value: 154 mg/m ³ , 50 ppm Sk |

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.
- 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.
- Avoid contact with the eyes and skin.

Respiratory protection: Not required.

Protection of hands: Not required.

Material of gloves: Not required.

Penetration time of glove material: Not required.

Eye protection: Tightly sealed goggles

9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Information on basic physical and chemical properties | |
| General Information | |
| Appearance: | |
| Form: | <i>Aerosol</i> |
| Colour: | <i>According to product specification</i> |
| Odour: | <i>Characteristic</i> |
| Odour threshold: | <i>Not determined.</i> |
| pH-value: | <i>Not determined.</i> |
| Change in condition | |
| Melting point/Melting range: | <i>Undetermined.</i> |
| Boiling point/Boiling range: | <i>Not applicable, as aerosol</i> |
| Flash point: | <i>< 0 °C (< 32 °F) Not applicable, as aerosol.</i> |
| Flammability (solid, gaseous): | <i>Not applicable.</i> |
| Ignition temperature: | <i>240 °C (464 °F)</i> |
| Decomposition temperature: | <i>Not determined.</i> |



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| | |
|--|---|
| Self-igniting: | <i>Product is not selfigniting.</i> |
| Danger of explosion: | <i>Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.</i> |
| Explosion limits: | |
| Lower: | <i>1.2 Vol %</i> |
| Upper: | <i>26.2 Vol %</i> |
| Vapour pressure at 20 °C (68 °F): | <i>4000 hPa (3000 mm Hg)</i> |
| Density at 20 °C (68 °F): | <i>0.798 g/cm³ (6.659 lbs/gal)</i> |
| Relative density | <i>Not determined.</i> |
| Vapour density | <i>Not determined.</i> |
| Evaporation rate | <i>Not applicable.</i> |
| Solubility in / Miscibility with water: | <i>Not miscible or difficult to mix.</i> |
| Partition coefficient (n-octanol/ water): | <i>Not determined.</i> |
| Viscosity: | |
| Dynamic: | <i>Not determined.</i> |
| Kinematic: | <i>Not determined.</i> |
| Solvent content: | |
| Organic solvents: | <i>88.5 %</i> |
| EU-VOC: | <i>706.0 g/l</i> |
| EU-VOC in %: | <i>88.47 %</i> |
| Solids content: | <i>20.3 %</i> |
| Other information | <i>No further relevant information available.</i> |

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.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

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: | | |
| 67-64-1 acetone | | |
| Oral | LD50 | 5800 mg/kg (rat) |
| Dermal | LD50 | 20000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 39 mg/m ³ (rat) |
| 115-10-6 dimethyl ether | | |
| Inhalative | LC50/4 h | 308 mg/m ³ (rat) |
| 123-86-4 n-butyl acetate | | |
| Oral | LD50 | 10770 mg/kg (rat) |
| Dermal | LD50 | >17600 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >21.0 mg/m ³ (rat) |
| 108-65-6 2-methoxy-1-methylethyl acetate | | |
| Oral | LD50 | 8532 mg/kg (rat) |
| Dermal | LD50 | >5000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 35.7 mg/m ³ (rat) |
| 106-97-8 butane | | |
| Inhalative | LC50/4 h | 658000 mg/m ³ (rat) |
| 71-36-3 butan-1-ol | | |
| Oral | LD50 | 2292 mg/kg (rat) |
| Dermal | LD50 | 3430 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 17.76 mg/m ³ (rat) |
| 64742-95-6 Solvent naphtha (petroleum), light arom. (< 0,1 % benzol CAS nr. 71-43-2) | | |
| Oral | LD50 | 3592 mg/kg (rat) (OECD401) |
| Dermal | LD50 | >3160 mg/kg (rab) (OECD402) |
| Inhalative | LC50/4 h | >6193 mg/m ³ (rat) |

Primary irritant effect:

on the skin: No irritant effect.

on the eye: 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:

Irritant



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12 – ECOLOGICAL INFORMATION

Toxicity

| | |
|--|---------------------------------|
| Aquatic toxicity: | |
| 67-64-1 acetone | |
| EC50 / 48 h | 8800 mg/l (daphnia magna) |
| LC50 / 48 h | 2262 mg/l (daphnia magna) |
| LC50 / 96 h (static) | 5540 mg/l (fish) |
| 115-10-6 dimethyl ether | |
| EC50 / 48 h | >4000 mg/l (daphnia magna) |
| 123-86-4 n-butyl acetate | |
| EC50 / 48 h | 44 mg/l (daphnia magna) |
| EC50 / 96 h | 320 mg/l (algae) |
| LC50 / 24 h | 205 mg/l (daphnia magna) |
| LC50 / 96 h | 18 mg/l (Pimephales promelas) |
| 108-65-6 2-methoxy-1-methylethyl acetate | |
| EC50 | 408 mg/l (daphnia magna) |
| 71-36-3 butan-1-ol | |
| EC50 / 48 h | 1328 mg/l (daphnia magna) |
| EC50 / 72 h | 8500 mg/l (algae) |
| LC50 / 96 h | 1376 mg/l (Pimephales promelas) |
| 64742-95-6 Solvent naphtha (petroleum), light arom. (< 0,1 % benzol CAS nr. 71-43-2) | |
| EC50 / 24 h | 150 mg/l (daphnia magna) |
| EC50 / 48 h | 7.4 mg/l (daphnia magna) |
| LC50 / 96 h | 3.77 mg/l (fish) |

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

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.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.



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13- DISPOSAL CONSIDERATION

Waste treatment methods

Recommendation

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

| | |
|-----------|---|
| European | waste catalogue |
| 08 01 11* | waste paint and varnish containing organic solvents or other dangerous substances |
| 15 01 04 | metallic packaging |

Uncleaned packaging:

Recommendation: Non contaminated packagings may be recycled

14- TRANSPORT INFORMATION

UN-Number

ADR, IMDG, IATA UN 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



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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
MARPOL 73/78 and the IBC Code** Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

Transport category

2

Tunnel restriction code

D

IMDG

Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation":

UN1950, AEROSOLS, 2.1

15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.

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

16-OTHER INFORMATION

Relevant phrases

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.



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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.

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.