

**Safety Data Sheet** according to Regulation (EC) No 1907/2006 (REACH)  
**raid hp Bremssattel Reiniger Art. Nr.: 350010**



Revisions date: 01.10.2013  
Version: 1.0

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**Identification of the mixture and of the company/undertaking**

<b>1.1 Product identifier</b>	
Commercial Product Name	<b>raid hp Bremssattel Reiniger - Art. Nr.: 350010</b>

**1.2 Relevant identified uses of the mixture and uses advised against**

Use as cleaning agent.

At present we have no information on any use restrictions.

Any new data will be added to this safety data sheet.

**1.3 Details of the supplier of the safety data sheet**

<b>Company designation</b>	r.d.i Deutschland Autoteile + Vertriebs GmbH
<b>Street</b>	Gahlenfeldstraße 36
<b>Country</b>	D-58313 Herdecke
	Section technology
<b>Telefon / Telefax</b>	+49(0)2330-805550 / -805150
<b>E-Mail (competent person)</b>	sdb-info@raid-rdi.com

**1.4 EMERGENCY TELEPHONE NUMBER**

Giftinformationszentrum Nord -GIZ Nord +49(0)551 -19240 (accessible 24 hours)

**2. Hazards identification**

**2.1 Classification of the mixture**

**Classification of the mixture according to Regulation (EC) No 1272/2008 (CLP/GHS)**

Flam. Aerosol 1; H222

Aquatic Chronic 2; H411

Skin Irrit. 2; H315

STOT SE 3; H336

**Classification of the mixture according to Directive 67/548/EEC, 1999/45/EC**

Xi; R38

F+; R12

N; R51/53.

R67

**Supplemental Hazard information (EC)**

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**2.2 Label elements according to Regulation 1999/45/EC**

**Hazard symbol**



Xi: Irritant



F: Flammable

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N: Dangerous for the environment.

**Hazard components for labeling:**

naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, iso-butan

**R-phrases**

- R12 Extremely flammable.
- R38 Irritating to skin.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R67 Vapours may cause drowsiness and dizziness.

**S-phrases**

- S2 Keep out of the reach of children.
- S16 Keep away from sources of ignition - No smoking.
- S23 Do not breathe spray
- S29/56 Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.
- S46 If swallowed, seek medical advice immediately and show this container or label.
- S51 Use only in well-ventilated areas.

**2.3 Other hazards**

- Caution! Container under pressure.
- 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.
- Without well-ventilation, formation of explosive/inflammable vapours possible.
- Keep out of the reach of children.

**3. Composition/information on ingredients**

**3.1 Mixture**

Hazardous ingredients	EC-No. CAS-No. Index-No. Reg.No.	Classification 67/548/EWG	Concentration
		Classification 1272/2008/EG	
naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	265-151-9 64742-49-0 649-328-00-1 01-2119475514-35-xxxx	Xn; R65 Xi; R38 F; R11 N; R51/53 R67  Flam. Liq. 2; H225 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Skin Irrit. 2; H315 STOT SE 3; H336	50 - 100 %
iso-butane	200-857-2 75-28-5 601-004-01-8	F+; R12  Flam. Gas 1; H220; Press. Gas; H280	2,5-10 %
carbon dioxide	204-696-9 124-38-9	  Press. Gas; H280	2,5-10 %
propane	200-827-9 74-98-6 601-003-00-5	F+; R12  Flam. Gas 1; H220 Press. Gas; H280	≤ 2,5 %

(Full text of R-, H-phrases: see section 16)

## 4. First aid measures

### 4.1 Description of first aid measures

#### In case of inhalation

- Provide fresh air.
- Consult a physician in case of symptoms.
- Move victim to fresh air. Put victim at rest and keep warm.

#### In case of skin contact

- Clean with water and soap and rinse down with water.
- Remove contaminated clothing immediately.

#### In case of eye contact

- In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of persistent symptoms consult doctor.

#### In case of ingestion

- Do NOT induce vomiting. In case of persistent symptoms consult doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

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### 4.3 Indication of any immediate medical attention and special treatment needed

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## 5. Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media: Foam, Dry Chemical. Carbon Dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media: High power water jet.

### 5.2 Special hazards arising from the substance or mixture

- Formation of explosive/inflammable vapours possible.
- During heating or in case of fire poisonous gases possible.

### 5.3 Advice for fire-fighters

- In case of fire: Wear self-contained breathing apparatus.
- Use water spray jet to protect personnel and to cool endangered containers.
- Fire residues and contaminated firefighting water must be disposed of in accordance with official regulations.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment. Keep away unprotected persons.
- Provide adequate ventilation. Keep away from sources of ignition.

### 6.2 Environmental precautions

- In case of entry into waterways, soil or drains, inform the responsible authorities.
- Do not allow entering drains or surface/ground water.

### 6.3 Methods and material for containment and cleaning up

- Use only in well-ventilated areas.
- Do not rinse down with water.
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).



## 6.4 Reference to other sections

Information for handling and storage see point 7.  
Information for personal protection see point 8.  
Information for disposal see point 7.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas. Provide for good room ventilation.  
Wash hands and face before breaks and after work. Keep away from food, drink and animal feed stuffs. Avoid contact with skin and eyes.

### Advice on protection against fire and explosion

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Pressurized container Do not pierce or burn, even after use. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

### Aerosol and dust generation preventions

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### Advice on general occupational hygiene

Wash hands and face before breaks and after work.  
Keep out of the reach of children.  
In case of skin and eye contact immediately clean with plenty of warm water.  
Keep away from food, drink and animal feed stuffs.  
Take off immediately all contaminated clothing.

### Environmental precautions

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### 7.2 Conditions for safe storage, including any incompatibilities

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### Requirements for storage rooms and vessels

Store in a cool place.  
Keep container tightly closed.  
Observe official regulations on storing packagings with pressurized containers observed.

### Hints on storage assembly

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**Storage class:** LGK 2B: Aerosols.

### 7.3 Specific end uses

Recommendations

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### Industrial sector specific solutions

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**8. Exposure controls/personal protection**

**8.1 Control parameters**

**8.1.1 Occupational exposure limits**

Substance; CAS-No.:	iso-butane; 75-28-5		propane; 74-98-6	
	Limit Value-Eight hours ppm; mg/m <sup>3</sup>	Limit Value-Eight hours ppm; mg/m <sup>3</sup>	Limit Value-Eight hours ppm; mg/m <sup>3</sup>	Limit Value-Eight hours ppm; mg/m <sup>3</sup>
Austria	-	-	1.000 ; 1.800	2.000; 3.600
Belgium	1.000;-	-	1.000 ; -	-
Denmark	-	-	1.000 ; 1.800	2.000; 3.600
EU	-	-	-	-
France	-	-	-	-
Hungary	-	-	-	-
Ireland	-	-	-	-
Italy	-	-	-	-
Japan	-	-	-	-
Latvia	-	-	-	-
Poland	-	-	-; 1.800	-
Spain	-	-	1.000 ;--	-
Sweden	-	-	-	-
Switzerland	800; 1.900	-	1.000; 1.800	4.000; 7.200
The Netherlands	-	-	-	-
United Kingdom	-	-	-	-

Substance; CAS-No.:	carbon dioxide; 124-38-9	
	Limit Value-Eight hours ppm; mg/m <sup>3</sup>	Limit Value-Eight hours ppm; mg/m <sup>3</sup>
Austria	5.000; 9.000	10.000; 18.000
Belgium	5.000; 9.131	30.000; 54.784
Denmark	5.000; 9.000	10.000; 18.000
EU	5.000; 9.000	-; -
France	5.000; 9.000	-; -
Hungary	-; 9.000	-
Ireland	5.000; 9.000	15.000; 27.000 (1)
Italy	5.000; 9.000	-
Japan	-	-
Latvia	5.000; 9.000	-
Poland	-; 9.000	-; 27.000
Spain	5.000; 9.150	15.000; 27.4000
Sweden	5.000; 9.000	10.000; 18.000 (1)
Switzerland	5.000; 9.000	-
The Netherlands	-;9.000	-
United Kingdom	5.000; 9.150	15.000; 27.400

(1) Ireland:15 minutes refence period; Sweden Short-term value, 15 minutes average value

### 8.1.2 DNEL/PNEC-values

Substance; CAS-No.:	DNEL Long-term - inhalation, local effects	DNEL Long term - inhalations systemic effects
naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha; 64742-49-0	-	3,25 mg/m <sup>3</sup>

### 8.1.3 Risk management measures according to used control banding approach

Used model: -

### 8.2 Exposure controls

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#### 8.2.1 Appropriate engineering controls

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#### 8.2.2 Personal protective equipment

##### Eye / Face protection

Tightly sealed safety glasses.

##### Skin protection

-

##### Hand protection

###### By long-term hand contact

Suitable material: NBR (Nitrile rubber).

Material thickness: 0,45 mm

Break through time:> 240 min

Breakthrough times and swelling properties of the material must be taken into consideration.

##### Other skin protection measures

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

In well-ventilated rooms self-contained breathing apparatus may be replaced with combination filters. Type AX.

##### Thermal hazards

Not required.

##### Body protection

Wear suitable protective clothing.

### 8.2.3 Environmental exposure controls

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	
-Physical state	Aerosol.
-Colour	According to product specification
Odour	Petrol-like.
Odour threshold	-
pH (20 °C)	-
Melting point/range (°C)	Not determined.
Initial boiling point/range (°C)	Inapplicable.
Flash point (°C)	Inapplicable (Aerosol).
Ignition temperature (°C)	> 200
Vapourisation rate / Evaporation rate	-
Flammability and burning behaviour of dust layers burning number (BZ)	-
Explosion limits (LEL, UEL)	Formation of explosive/inflammable vapours possible.
Vapour pressure (hPa) at 20 °C)-	10,7 hPa
Vapour density (air=1)	-
Density (g/cm <sup>3</sup> ) at 20 °C	0,70556 g/m <sup>3</sup>
Relative density (air = 1)	-
Water solubility (20°C in g/l)	Immiscible resp. less miscible with water.
Organic Solvent	Miscible.
VOC-EU	96,6%-681,6 g/l
Partition coefficient	-
n-Octanol/Water (log Po/w)	-
Self ignition temperature in °C	The product is not self-igniting.
Decomposition temperature (°C)	-
Viscosity, dynamic (mPa s)	-
Explosives	

### 9.2 Additional information

-

## 10. Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

No further relevant information available.

### 10.5 Incompatible materials

No further relevant information available.

## 10.6 Hazardous decomposition products

Aldehydes, carbon monoxide and carbon dioxide.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity akute Toxizität

<b>Substance; CAS</b>	naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha; 64742-49-0
Oral LD50	>2.000 mg/kg
Test species	rat
Dermal LD50	>2.000 mg/kg
Test species	rabbit
Inhalativ LD50	> 5 mg/l
Test species	rat

#### Irritation

Irritating to skin and mucous membranes.

No irritation to eyes.

#### Skin corrosion

No further relevant information available.

#### Sensitisation

No sensitisation effect known.

#### Repeated dose toxicity

No further relevant information available.

#### Carcinogenicity

No further relevant information available.

#### Mutagenicity

No further relevant information available.

#### Toxicity for reproduction

No further relevant information available.

#### Symptoms related to the physical, chemical and toxicological characteristics:

No further relevant information available.

#### 11.2 Other information

The evaluation was carried out according to the calculation method of the preparation directive:

Vapours may cause drowsiness and dizziness.



## 12. Ecological information

### 12.1 Toxicity Aquatic toxicity

#### Acute (short-term) fish toxicity

CAS: 64742-49-0 naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

Toxic for fish.

#### Acute (short-term) daphnia toxicity

CAS: 64742-49-0 naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha

EC50: 1-10 mg/l (Daphnien)

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB-assessment

Not applicable.

### 12.6 Other adverse effects

Do not allow to enter into ground water, surface water or drains.

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Treatment of contaminated packaging

No further relevant information available.

#### Waste codes / waste designations according to EWC / AVV

16 05 04\* gases in pressure containers (including halons) containing dangerous substances

#### Additional information

Do not empty into drains.

Vessels not properly emptied are special waste.

## 14. Transport information

	Land transport (ADR/RID)	Marine- transport IMDG	Air transport ICAO- IATA
<b>UN-No.</b>	1950	1950	1950
<b>Description of the goods</b>	AEROSOLS, flammable	AEROSOLS, flammable	AEROSOLS, flammable
<b>Proper shipping name</b>		AEROSOLS, flammable	AEROSOLS, flammable
<b>Class(es)</b>	2	2	2
<b>Packaging group</b>	-	-	-
<b>Environmental hazards</b>	Ja	Ja	Ja
<b>Classification Code</b>	5F		
<b>Labels</b>	2.1, 9	2.1, 9	2.1
<b>Tunnel restriction code</b>	(D)	-	-
<b>Danger releasing substance</b>	naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, iso- butane		
<b>Limited Quantities</b>	1 L	-	-
<b>EMS-No.</b>	-	F-D,S-U	-
<b>Marine Pollutant</b>	-	-	-
<b>Special precautions for user</b>	Caution gases		
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	-	-	-

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the mixture

#### EU regulations

-

#### Other EU regulations

-

### 15.2 Chemical Safety Assessment

No information available, because for the substance no chemical safety report is required.

## 16. Other information

No information available, because for the substance no chemical safety report is required.

The data so far as available are taken from the databases GESTIS / GESTIS International Limit Values, IUCLID respectively of external safety data sheets. This Safety Data Sheet was issued according to current EC guidelines. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The data is supposed to give advice for the safe handling of the mentioned product with regard to storage, processing, transport and waste disposal. The information cannot be applied to other products.

## Indication of changes

-

## Key literature references and sources for data

IFA GESTIS-Stoffdatenbank; IFA GESTIS International Limit Values, External safety data sheet.

## Relevant R-, H- and EUH-phrases (number and full text)

### According to directive 67/548/EEC

R11 Highly flammable.

R12 Extremely flammable.

R38 Irritating to skin.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

### According to regulation (EC) No. 1272/2008

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 May cause cancer.

## Training advice

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## Classification for mixtures and used evaluation method according to regulation (EC) No.1207/2008 [CLP]

## Further information

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## 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)

CAS: Chemical Abstracts Service

DNEL: Derived No-Effect Level

EC: European Community

EN: Europäische Norm (European Standard)

IATA-DGR: International Air Transport Association-Dangerous Goods Regulations

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)

ICAO-TI: International Civil Aviation Organization-Technical Instructions

IMDG-Code: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

IUCLID: International Uniform Chemical Information Database

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

log Pow: n-octanol/water distribution coefficient

MARPOL: Maritime Pollution Convention

PBT: Persistent, Bio-Accumulative and Toxic

PNEC: Predicted No-Effect Concentration

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses

UN: United Nations

VOC: Volatile Organic Compounds)

vPvB: Very persistent, very bio-accumulative