

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

- **Product identifier**
- **Trade name:** NOW Bremsenreiniger - 5 L
- **Article number:** 4000354106
- **Application of the substance / the preparation:** in accordance with product designation
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Nordwest Handel AG  
Berliner Str. 26 - 36  
D-58135 Hagen  
  
Phone: +49 (0)2331/4610  
Fax: +49 (0)2331/461389
- **Further information obtainable from:** see above
- **Emergency telephone number:**  
Beratungsstelle bei Vergiftungen, Mainz  
Tel. 0049 (0) 6131 / 19240

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.



Xi; Irritant

R38: Irritating to skin.



F; Highly flammable

R11: Highly flammable.



N; Dangerous for the environment

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

R67: 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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• **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:**

Xn Harmful  
F Highly flammable  
N Dangerous for the environment

• **Hazard-determining components of labelling:**

Naphtha (petroleum), hydrotreated light

• **Risk phrases:**

11 Highly flammable.  
38 Irritating to skin.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.  
67 Vapours may cause drowsiness and dizziness.

• **Safety phrases:**

2 Keep out of the reach of children.  
9 Keep container in a well-ventilated place.  
16 Keep away from sources of ignition - No smoking.  
23 Do not breathe vapour/spray.  
25 Avoid contact with eyes.  
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

• **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.

• **Dangerous components:**

CAS: 64742-49-0 EINECS: 265-151-9 Index number: 649-328-00-1	Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; F R11; N R51/53 R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400	50-100%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2,5-10%

• **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons ≥ 30%

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

### 4 First aid measures

• **Description of first aid measures**

• **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.  
• **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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:**  
CO<sub>2</sub>, 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 measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **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:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
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.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **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.

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• **Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

**67-64-1 acetone**

IOELV ( ) 1210 mg/m<sup>3</sup>, 500 ppm

• **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 skin.

Avoid contact with the eyes and skin.

• **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

• **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

## 9 Physical and chemical properties

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

• **General Information**

• **Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Petrol-like
Odour threshold:	Not determined.

• pH-value:	Not determined.
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• **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	60°C

• Flash point:	-25°C
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· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	413°C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
Lower:	1,0 Vol %
Upper:	7,3 Vol %
· <b>Vapour pressure at 20°C:</b>	190 hPa
· <b>Density at 20°C:</b>	0,69852 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Segregation coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Solvent content:</b>	
Organic solvents:	100,0 %
· <b>Other information</b>	No further relevant information available.

## 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.

## 11 Toxicological information

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

- **LD/LC50 values relevant for classification:**

**64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral LD50 5000 mg/kg (rat)

Dermal LD50 3000 mg/kg (rab)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No 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:

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Irritant

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## 12 Ecological information

### • Toxicity

#### • Aquatic toxicity:

##### 64742-49-0 Naphtha (petroleum), hydrotreated light

EC50	1-10 mg/l (Bacteria)
EC50 / 48h	10-100 mg/l (aquatische Invertebraten)
EC50 / 72h	10-100 mg/l (Algen)

#### • Persistence and degradability No further relevant information available.

#### • Behaviour in environmental systems:

#### • Bioaccumulative potential No further relevant information available.

#### • Mobility in soil No further relevant information available.

#### • Ecotoxicological effects:

#### • Remark: Toxic for fish

#### • 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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

#### • 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

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

#### • Uncleaned packaging:

#### • Recommendation: Disposal must be made according to official regulations.

## 14 Transport information

### • Land transport ADR/RID (cross-border)



#### • ADR/RID class: 3 (F1) Flammable liquids.

#### • Danger code (Kemler): 33

#### • UN-Number: 1993

#### • Packaging group: II

#### • Hazard label: 3

#### • Special marking: Symbol (fish and tree)

#### • UN proper shipping name: 1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light)

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· Tunnel restriction code D/E

· Maritime transport IMDG:



· IMDG Class: 3  
· UN Number: 1993  
· Label 3  
· Packaging group: II  
· EMS Number: F-E, S-E  
· Marine pollutant: No  
· Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 3  
· UN/ID Number: 1993  
· Label 3  
· Packaging group: II  
· Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light)

· UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, II  
· Special precautions for user Warning: Flammable liquids.  
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

## 15 Regulatory information

· 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

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
R11 Highly flammable.  
R36 Irritating to eyes.  
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.

### · Department issuing MSDS:

NORDWEST Service Center  
Tel.: +49 (0)2331/4614500  
Fax: +49 (0)2331/4614549  
Email: service-center@nordwest.com

### · 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)

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*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

**\* Data compared to the previous version altered.**

EU