

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31



Printing date 14.10.2010

Revision: 14.10.2010

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

- **Product details:**
- **Trade name:** CHALLENGE 400-HT
- **Application of the substance / the preparation:**  
Chemicals for various applications  
Additive
- **Manufacturer / Supplier:**  
N. Bucher AG  
Pfadackerstraße 9  
CH-8957 Spreitenbach  
Switzerland  
Tel.: ++41-56 418 19 90  
Fax: ++41-56 418 19 99
- **E-mail address of the competent person responsible for the Safety Data Sheet:** info@nbucherag.com
- **Informing department:** Sales
- **Emergency information:** As above or next toxicological information centre

**2 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xi; Irritant  
R41: Risk of serious damage to eyes.  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Label elements**
- **Labelling according to EU guidelines:**  
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.  
Observe all safety regulations when handling chemicals.
- **Code letter and hazard designation of product:**  
 Xi Irritant
- **Risk phrases:**  
41 Risk of serious damage to eyes.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
39 Wear eye/face protection.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**3 Composition/information on ingredients**

- **Chemical characterization**
- **Description:** Aqueous mixture

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**· Dangerous components:**

68412-54-4 Nonylphenol polyethoxylate (9EO)

 Xi R41; 
  N R51/53

10-15%

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

## 4 First aid measures

- **General information:** Remove contaminated clothing.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**  
Rinse with plenty of water.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.  
Use eye protection.  
Call a doctor immediately.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
In case of persistent symptoms consult doctor.

## 5 Firefighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** none
- **Special hazards caused by the material, its products of combustion or flue gases:**  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Cool endangered containers with water spray jet.  
Collect contaminated fire fighting water separately. It must not enter drains.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Ensure adequate ventilation.  
Avoid contact with skin and eyes.  
Do not breathe vapours.  
Use breathing protection against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Damp down gases/fumes/haze with water spray jet.  
Do not allow to enter drainage system, surface or ground water.  
Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable containers.  
Dispose of the material collected according to regulations.

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### 7 Handling and storage

- **Handling**
- **Information for safe handling:**
  - Ensure good ventilation/exhaustion at the workplace.
  - Keep away from heat and direct sunlight.
  - Prevent formation of aerosols.
  - Do not inhale aerosols.
  - Avoid breathing vapours.
  - Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and containers:**
  - Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:**
  - Store away from oxidizing agents.
  - Store away from reducing agents.
- **Further information about storage conditions:**
  - Store container in a well ventilated position.
  - Keep container tightly sealed.
  - Protect from heat and direct sunlight.
  - Protect from frost.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
  - Keep away from foodstuffs, beverages and food.
  - Instantly remove any contaminated garments.
  - Do not inhale gases / fumes / aerosols.
  - Avoid contact with the eyes and skin.
  - Wash hands during breaks and at the end of the work.
  - Use skin protection cream for preventive skin protection.
- **Breathing equipment:** Use breathing protection when aerosol or mist is formed.
- **Protection of hands:**
  - Protective gloves
  - To avoid skin problems reduce the wearing of gloves to the required minimum.
  - Check the permeability prior to each renewed use of the glove.
  - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- **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.

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- **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 safety glasses
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · General Information

#### · Appearance:

Form:	liquid
Colour:	colourless
	clear
Smell:	mild

#### · Change in condition

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density:** 1.02 g/cm<sup>3</sup>

#### · Solubility in / Miscibility with

Water: soluble

· **pH-value:** 12.3

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Stable at ambient temperature.
- **Materials to be avoided:**  
Strong oxidizing agents  
Reducing agents
- **Dangerous products of decomposition:** Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

## 11 Toxicological information

### · Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

68412-54-4 Nonylphenol polyethoxylate (9EO)

Oral	LD50	3000 mg/kg (rat)
Dermal	LD50	4400 mg/kg (rabbit)

#### · Primary irritant effect:

- **on the skin:** Slightly irritating
- **on the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:** No sensitizing effect known.

#### · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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Irritant

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## 12 Ecological information

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

68412-54-4 Nonylphenol polyethoxylate (9EO)

LC50/96 h | 2.5 mg/l (fish)

- **Additional ecological information:**

- **General notes:**

Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 2 (Self-assessment): hazardous for water

## 13 Disposal considerations

- **Product:**

- **Recommendation**

Disposal must be made according to official regulations.

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

- **European waste catalogue:**

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border):**

- **ADR/RID Class:** -

- **Maritime transport IMDG-Code:**

- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

## 15 Regulatory information

- **Designation according to EC guidelines:**

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

Observe all safety regulations when handling chemicals.

- **Code letter and hazard designation of product:**



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· **Risk phrases:**

- 41 Risk of serious damage to eyes.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
39 Wear eye/face protection.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **Ingredients according to Regulation (EC) No 648/2004:**

non-ionic surfactants	5 - 15%
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· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.· **National regulations**· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.· **Decree to be applied in case of technical fault:** -· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water· **Other regulations, limitations and prohibitive regulations**

Observe restrictions on the marketing and use according to Annex XVII of Regulation (EC) No 1907/2006.  
May only be used in cleaning systems with special treatment where the washing liquid is recycled or incinerated.

\* **16 Other information**

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.

· **Reasons for changes:**

The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by \*.

· **Relevant phrases**

The(se) R-phras(e)s are those of the ingredient(s) and do(es) NOT represent the classification of the preparation.

- R41 Risk of serious damage to eyes.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing MSDS:**

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Parkstraße 29 Fax: +49 - 2151 - 652086-9  
D-47829 Krefeld  
Germany

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

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