

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 24.03.2011



Version number 1

Revision: 24.03.2011

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

- **Date of issue:** 26.08.2005
- **Product identifier**
- **Trade name:** Vector HTC-SCA
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Ultrasonic cleaner
- **Details of the supplier of the safety data sheet**
- **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 telephone number:** 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; Sensitising
R43: May cause sensitisation by skin contact.
- **Classification system:**
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.
- **Label elements**
- **Labelling according to EU guidelines:**
The product has been classified/labelled in accordance with EC Directives / relevant national laws.
- **Code letter and hazard designation of product:**
 Xi Irritant
- **Hazard-determining components of labelling:**
Ethoxylated branched C11-14, C13-rich alcohols
- **Risk phrases:**
43 May cause sensitisation by skin contact.
- **Safety phrases:**
23 Do not breathe fumes/aerosol.
24 Avoid contact with skin.
37 Wear suitable gloves.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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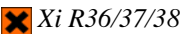
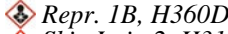
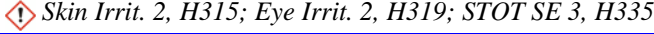
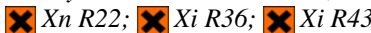
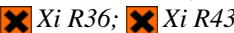

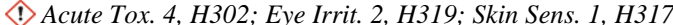
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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 872-50-4 EINECS: 212-828-1 Index number: 606-021-00-7	N-methyl-2-pyrrolidone  T Repr. Cat. 2 R61;  Xi R36/37/38 -----  Repr. 1B, H360D  Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 5%
CAS: 78330-21-9	Ethoxylated branched C11-14, C13-rich alcohols  Xn R22;  Xi R36;  Xi R43 -----  Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 5%

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

4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing contaminated by the product.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** none
- **Special hazards arising from the substance or mixture**
Nitrogen oxides (NO_x)
Oxides of phosphorus (P_xO_y)
Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **Advice for firefighters**
- **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

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Do not breathe vapours.
Avoid contact with skin and eyes.
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.

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- **Methods and material for containment and cleaning up:**
 - Ensure adequate ventilation.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose of the material collected according to regulations.
- **Reference to other sections**
 - See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
- **Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
 - Do not inhale aerosols.
 - Avoid breathing vapours.
 - Avoid contact with skin and eyes.
 - Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **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.
 - Store away from foodstuffs.
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.
 - Store container in a well ventilated position.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with critical values that require monitoring at the workplace:**

872-50-4 N-methyl-2-pyrrolidone

WEL (Great Britain)	Short-term value: 309 mg/m ³ , 75 ppm
	Long-term value: 103 mg/m ³ , 25 ppm
	Sk

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **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.
- **Breathing equipment:**
 - If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Protection of hands:**
 - Protective gloves
 - To avoid skin problems reduce the wearing of gloves to the required minimum.

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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.

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:** Safety glasses

· **Body protection:**

Protective work clothing

Protective clothing should be selected specifically for the working place.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: liquid

Colour: clear

· **Smell:** mild
sweetish

· **pH-value at 20°C:** 11.5

· **Change in condition**

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

· **Flash point:** not applicable

· **Ignition temperature:** 270°C

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

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

· **Density at 20°C:** 1.05 g/cm³

· **Solubility in / Miscibility with**

Water: soluble

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.

· **Incompatible materials:**

Strong oxidizing agents

Reducing agents

· **Hazardous decomposition products:**

Nitrogen oxides (NO_x)

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Phosphorus oxides (e.g. P₂O₅)
Carbon monoxide (CO) and Carbon dioxide (CO₂)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

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

872-50-4 N-methyl-2-pyrrolidone

Oral	LD50	3598 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rabbit)
Inhalative	LC50/4 h	5.1 mg/l (mouse)

- **Primary irritant effect:**

- **on the skin:** Slightly irritating

- **on the eye:** Short time, reversible irritating effect.

- **Sensitization:** Sensitization possible by skin contact.

- **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:

Sensitising

Danger by skin resorption.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

872-50-4 N-methyl-2-pyrrolidone

EC50/48 h	> 9000 mg/l (bacteriums)
	~4897 mg/l (water flea (daphnia magna))
IC50/72 h	> 500 mg/l (algae (Desmodesmus subspicatus))
LC50/96 h	4000 mg/l (leuciscus idus)
	832 mg/l (bluegill (lepomis macrochirus))

- **Additional ecological information:**

- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

- **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.

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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: -

- Special precautions for user Not applicable.

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

* 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

- Designation according to EC guidelines:

The product has been classified/labelled in accordance with EC Directives / relevant national laws.

- Code letter and hazard designation of product:



Xi Irritant

- Hazard-determining components of labelling:

Ethoxylated branched C11-14, C13-rich alcohols

- Risk phrases:

43 May cause sensitisation by skin contact.

- Safety phrases:

23 Do not breathe fumes/aerosol.

24 Avoid contact with skin.

37 Wear suitable gloves.

- 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 1 (Self-assessment): slightly 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.

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

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.

Concerning: Revised data

The current MSDS has been changed against the previous version. Chapters which have been changed, are marked with an asterisk * at the chapter number.

- Reasons for changes: Changes in classification and labelling

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· Relevant phrases

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

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H360D May damage the unborn child.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitisation by skin contact.

R61 May cause harm to the unborn child.

· Department issuing MSDS:

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D-47829 Krefeld

Germany

· * Data compared to the previous version altered.

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