

**Tradename : Alpha Guard Disinfectant**

**Company / Distributor :** HA-RA UMWELT - UND REINIGUNGSTECHNIK HANS RAAB GMBH  
 HA-RA UMWELTTECHNOLOGIE - ZENTRUM, D-66287 Quierschied

**Telephone :** ++ 49 6897-604-0, **Date of issue:** 08.08.2008 **Replaces Data Sheet of :** First elaboration  
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1 Identification of Substance/Preparation and Company	
1.1	<b>Tradename : Alpha Guard Disinfectant</b> <b>Article - No :</b> <b>Preparation - No :</b> n.ap.
1.2	<b>Company / Undertaking identification</b>
1.2.1	<b>Address of the Company / Undertaking:</b> HA-RA UMWELT - UND REINIGUNGSTECHNIK HANS RAAB GMBH HA-RA UMWELTTECHNOLOGIE - ZENTRUM, D - 66287 Quierschied Telephone : ++ 49 - 6897 - 0, Fax : ++ 49 6897 - 604 - 200 + 225
1.2.2	<b>Responsible :</b> Chemie & Vorschrift, Fischbach 19, D - 35418 Großen - Buseck
1.3	<b>Emergency - Telephone :</b> Information Centre Specializing in Symptoms of Poisoning Telephone : ++49 - 30 - 302 30 22 Emergency - Telephone of the Company / Undertaking Telephone : ++496897 - 604 - 0
2 Composition/Information regarding Ingredients	
2.1	<b>Chemical Characterization :</b> Polyhexamethylenbiguanid and Didecyldimethylammoniumchlorid with Tensides and 2 Propanol <2% water and additives
2.2	<b>Dangerous Ingredients :</b>
	<b>CAS-No., Index-No., EEC-No., Material m% - range, Symbol, R-phrases</b>
3 Hazard Identification	
3.1	<b>For Humans (additional information is given under item 11) :</b>
3.2	<b>For the Environment :</b>
3.3	<b>For Material :</b>
4 First Aid Measures	
4.1	<b>General Notes :</b> Ensure supply of fresh air.
4.2	<b>After skin contact :</b> In case of contact with skin, wash off immediately with soap and water.
4.3	<b>After eye contact :</b> Thoroughly wash eyes with water.
4.4	<b>After swallowing :</b> Drink plenty of water, avoiding vomiting. Visit the doctor immediately, and show him the label.
4.5	<b>Notes to Physician :</b> Treatment for symptoms: Emergency Telephone (Umwelt Bundesamt Berlin) Tel: 030/3023022
4.6	<b>Special Equipment :</b>
5 Fire - Fighting Measures	
5.1	<b>Suitable Extinguishing Media :</b> Foam or powder and water.
5.2	<b>Extinguishing Media to avoid :</b>
5.3	<b>Fire and Explosion Hazards :</b>
5.4	<b>Additional Information :</b>
5.5	<b>Special Protective Equipment :</b>
6 Accidental Release Measures	
6.1	<b>Personal Precautions :</b>
6.2	<b>Environmental Precautions and Methods for Cleaning up :</b> Do not allow to enter rivers, sewerage drains or soil.

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<b>6.3</b>	<b>Further Information :</b>
<b>7</b>	<b>Handling and Storage</b>
<b>7.1</b>	<b>Handling:</b> Keeping away from food. If spilt on clothes, remove clothing immediately.
<b>7.1.1</b>	<b>Precautions for safe Handling :</b>
<b>7.1.2</b>	<b>Precautions in Case of Fire and Explosion :</b>
<b>7.2</b>	<b>Storage :</b> Protect from frost.
<b>7.2.1</b>	<b>Storage Instructions :</b>
<b>7.2.2</b>	<b>Store away from :</b>
<b>7.2.3</b>	<b>Further Information on Storage Conditions :</b>
<b>7.2.4</b>	<b>Storage Class :</b>
<b>8</b>	<b>Exposure Controls and Personal Protection</b>
<b>8.1</b>	<b>Information on System Design :</b>
<b>8.2</b>	<b>Exposure Limits :</b>
<b>8.2.1</b>	<b>Material :</b> Limit Value :
<b>8.3</b>	<b>Personal Protective Equipment:</b> In case of prolonged skin contact, use protective gloves.
<b>8.3.1</b>	<b>General Protection and Hygiene :</b>
<b>8.3.2</b>	<b>Respiratory Protection :</b>
<b>8.3.3</b>	<b>Hand Protection :</b>
<b>8.3.4</b>	<b>Eye Protection :</b>
<b>8.3.5</b>	<b>Skin Protection :</b>
<b>8.3.6</b>	<b>Further Information :</b>
<b>9</b>	<b>Physical and Chemical Properties</b>
<b>9.1</b>	<b>Appearance</b>
<b>9.1.1</b>	<b>Form :</b> liquid
<b>9.1.2</b>	<b>Colour :</b> colourless
<b>9.1.3</b>	<b>Odour :</b> weakly characteristic
<b>9.2</b>	<b>Safety - relevant Data</b>
<b>9.2.1</b>	<b>pH-value, undiluted :</b> 4, 0-6, 0
<b>9.2.2</b>	<b>Boiling point/Boiling - range (°C)</b> <100° C
<b>9.2.3</b>	<b>Flash Point (°C, c.c) :</b>
<b>9.2.4</b>	<b>Flammability (EG A10/A 13 )</b>
<b>9.2.5</b>	<b>Ignition temperature (°C)</b>
<b>9.2.6</b>	<b>Autoflammability (EG A16)</b>
<b>9.2.7</b>	<b>Oxidizing Properties :</b>
<b>9.2.8</b>	<b>Explosion hazard :</b>
<b>9.2.9</b>	<b>Explosion limits (Vol.%) lower :</b>
<b>9.2.10</b>	<b>Vapour pressure :</b>
<b>9.2.11</b>	<b>Density (g/ml) :</b>
<b>9.2.12</b>	<b>Solubility (in Water) :</b> Partly soluble
<b>9.2.13</b>	<b>Partition coefficient, n-Octanol/Water :</b>
<b>9.2.14</b>	<b>Viscosity :</b>
<b>9.2.15</b>	<b>Solvent separation test :</b>
<b>9.2.16</b>	<b>Solvent content (m %) ;</b>
<b>9.3</b>	<b>Further Data</b>
<b>9.3.1</b>	<b>Thermal decomposition (°C) :</b>
<b>9.3.2</b>	<b>Vapour density (Air = 1) :</b>

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<b>9.3.3</b>	<b>Evaporation rate :</b>								
<b>10</b>	<b>Stability and Reactivity</b>								
<b>10.1</b>	<b>Conditions to avoid :</b>								
<b>10.2</b>	<b>Materials to avoid :</b>								
<b>10.3</b>	<b>Hazardous decomposition Products :</b>								
<b>10.4</b>	<b>Further Information :</b> Protect from frost. Store at no higher temperature than 25° C.								
<b>11</b>	<b>Toxicological Information</b>								
<b>11.1</b>	<b>Toxicological Tests</b>								
<b>11.1.1</b>	<b>Acute Health Effects :</b> Inhalation, LC <sub>50 rat</sub> , (mg/l/4h) : Ingestion, LD <sub>50 rat</sub> , (mg/kg) : Skin - contact, LD <sub>50 rat</sub> , (mg/kg) : Irritation (to Skin/Eye) : Sensitization :								
<b>11.1.2</b>	<b>Subacute/chronicle Toxicity :</b> Carcinogenicity : Mutagenicity : Teratogenicity Narcotic Effects :								
<b>11.2</b>	<b>Practical Experience</b>								
<b>11.2.1</b>	<b>Observations relevant for classification :</b>								
<b>11.2.2</b>	<b>Further Observations :</b>								
<b>11.3</b>	<b>General Remarks :</b>								
<b>12</b>	<b>Ecological Information</b>								
<b>12.1</b>	<b>Elimination (Persistence and Degradability) :</b> The product is biodegradable.								
<b>12.2</b>	<b>Behaviour in Sewage Works .:</b>								
<b>12.3</b>	<b>Ecotoxic Effects, aquatic Toxicity :</b>								
<b>12.4</b>	<b>Other ecological information</b>								
<b>12.4.1</b>	<b>COD-Value, mg/g :</b> n.av.								
<b>12.4.2</b>	<b>BOD<sub>5</sub>-Value, mg/g :</b> n.av.								
<b>12.4.3</b>	<b>AOX - Remarks :</b> n.ap.								
<b>12.4.4</b>	<b>Significant Components :</b> n.av.								
<b>13</b>	<b>Disposal Considerations (For national Regulations refer to item 15. )</b>								
<b>13.1</b>	<b>Residues</b>								
<b>13.1.1</b>	<b>Recommendation :</b>								
<b>13.1.2</b>	<b>Safe Handling:</b>								
<b>13.2</b>	<b>Contaminated Packaging</b>								
<b>13.2.1</b>	<b>Recommendation :</b>								
<b>13.2.2</b>	<b>Safe Handling :</b>								
<b>14</b>	<b>Transport Information</b>								
<b>14.1</b>	<b>Transportation by Road or Railway according to ADR/GGVS and RID/GGVE</b> <b>Remarks :</b> Not dangerous goods according to ADR Class :      Division : <b>Instructions for Transportation in Tanks :</b> Hazard - No :      UN-No.:								
<b>14.1.1</b>	<b>Instruction concerning Shipper's Declaration and Packaging:</b> <table border="0"> <tr> <td><b>Volume or Mass</b></td> <td><b>Description of Goods</b></td> <td><b>Risk label</b></td> <td><b>Packing - Code</b></td> </tr> <tr> <td></td> <td></td> <td>or</td> <td>marginal</td> </tr> </table>	<b>Volume or Mass</b>	<b>Description of Goods</b>	<b>Risk label</b>	<b>Packing - Code</b>			or	marginal
<b>Volume or Mass</b>	<b>Description of Goods</b>	<b>Risk label</b>	<b>Packing - Code</b>						
		or	marginal						
<b>14.1.2</b>	<b>Listed Cargo as per Appendix B.8 :</b> n.ap.								
<b>14.1.3</b>	<b>Additional Designation in the Shipper's Declaration : Inscription on Packaging :</b>								

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<b>14.2</b>	<b>Classification for Transportation by Inland-navigation according to ADNO/GGVBinSch</b> <b>Remarks :</b> Classification has not been done. Class : Division : Category:
<b>14.2.1</b>	<b>Description of Goods :</b>
<b>14.2.2</b>	<b>Remarks :</b>
<b>14.3</b>	<b>Classification for Transportation by Vessels according to IMDG/GGVSee</b> <b>Remarks :</b> Not dangerous goods according to IMDG Class : UN-NO Packing Group :
<b>14.3.1</b>	<b>EmS-No. : MFAG-Table</b>
<b>14.3.2</b>	<b>Marine pollutant :</b>
<b>14.3.3</b>	<b>Instruction for the responsible Declaration and Labelling :</b> (Without consideration of packing sizes for possible exemptions.) <b>Proper Shipping Name :</b> <b>Risk Label :</b>
<b>14.3.4</b>	<b>Remarks :</b>
<b>14.4</b>	<b>Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI</b> <b>Remarks : Not dangerous goods according to IATA-DGR</b> Class : UN-NO. : Packing Group :
<b>14.4.1</b>	<b>Instruction for the responsible Declaration and Labelling :</b> (Without consideration of packing sizes for possible exemptions.) <b>Proper Shipping Name:</b> <b>Risk Label :</b> Packing Instructions, Passenger : Cargo :
<b>14.4.2</b>	<b>Remarks :</b>
<b>15</b>	<b>Regulatory Information</b>
<b>15.1</b>	<b>Classification according to EEC-Regulations :</b> Classification required by EEC : No. Application Exemptions : Hazards Identification : Hazards Symbol(s) : Component(s) : <b>R-Phrases :</b>  <b>S-Phrases :</b>  Additional Markings :
<b>15.1.1</b>	<b>The manner of labelling (Formats, exemptions, additional markings) has to be taken in the relevant regulations.</b>
<b>15.2</b>	<b>National Regulations (valid only for Germany)</b>
<b>15.2.1</b>	<b>Beschäftigungsbeschränkung nach s 15 GefStoffV beachten :</b>
<b>15.2.2</b>	<b>Aufbewahrungspflicht nach s 24 GefStoffV beachten :</b>
<b>15.2.3</b>	<b>Störfallverordnung beachten :</b>
<b>15.2.4</b>	<b>Klassifizierung nach VbF :</b>
<b>15.2.5</b>	<b>Technische Anleitung Luft :</b>
<b>15.2.6</b>	<b>Wassergefährdungsklasse :</b>
<b>15.2.7</b>	<b>LAGA : Abfallschlüssel :</b>
<b>15.2.8</b>	<b>Regelungsbereich der TRGS 514 beachten :</b>
<b>15.2.9</b>	<b>Regelungsbereich der TRGS 515 beachten :</b>
<b>15.2.10</b>	<b>Regelungsbereich der TRGS 300 beachten :</b>
<b>15.2.11</b>	<b>Regelungsbereich der WRMG beachten :</b>
<b>15.2.12</b>	<b>Gesundheitsschädlich i.S.d. s 2 Abs. 3 Verpackungsverordnung :</b>
<b>15.2.13</b>	<b>Regelungsbereich der FPV beachten :</b>

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**15.2.14 Sonstige zu beachtende Vorschriften :**

<b>16</b>	<b>Other Information</b>
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	<p>This Material Safety Data Sheet has been worked out regarding 93/112/EEC and TRGS 220. The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products. Worked out by : Chemie &amp; Vorschrift, Fischback 19,D - 35418 Großen - Buseck, ( +49--6408--7031/32 Receipture of Data : 13.06.1995</p>
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