

Tradename : Hans Raab Protective Formula

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
 "*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

1 Identification of Substance/Preparation and Company																						
1.1	Tradename : Hans Raab Protective Formula Article - No : Preparation - No : n.ap.																					
1.2	Company / Undertaking identification																					
1.2.1	Address of the Company / Undertaking : 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	Responsible : Chemie & Vorschrift, Fischbach 19, D - 35418 Großen - Buseck																					
1.3	Emergency - Telephone : 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	Chemical Characterization : Aqueous mixture of organic solvents and surfactants with fragrances.																					
2.2	Dangerous Ingredients :																					
	<table border="1"> <thead> <tr> <th>CAS-No.,</th> <th>Index-No.,</th> <th>EEC-No.,</th> <th>Material</th> <th>m% - range,</th> <th>Symbol,</th> <th>R-phrases</th> </tr> </thead> <tbody> <tr> <td>64-17-5</td> <td>603-002-00-5</td> <td>200-578-6</td> <td>Ethanol</td> <td>< 10%</td> <td>F</td> <td>R11</td> </tr> <tr> <td>68891-38-3</td> <td></td> <td></td> <td>Fatty alcohol C12-14 (2EO)-sulfate Sodium Salt</td> <td>< 25%</td> <td>Xi</td> <td>R36/38</td> </tr> </tbody> </table>	CAS-No.,	Index-No.,	EEC-No.,	Material	m% - range,	Symbol,	R-phrases	64-17-5	603-002-00-5	200-578-6	Ethanol	< 10%	F	R11	68891-38-3			Fatty alcohol C12-14 (2EO)-sulfate Sodium Salt	< 25%	Xi	R36/38
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	Remarks : Classification and Labelling of a Product is indicated under item 15.																					
3 Hazard Identification																						
3.1	For Humans (additional information is given under item 11): May cause skin and eye irritation.																					
3.2	For the Environment : May affect the functioning of separators.																					
3.3	For Material : None.																					
4 First Aid Measures																						
4.1	Inhalation : Ensure supply of fresh air.																					
4.2	After skin contact : In case of contact with skin, wash off immediately with water. If symptoms persist, consult a doctor.																					
4.3	After eye contact : Flush eyes immediately with large amounts of water, lifting eyelids. If symptoms persist, consult a doctor.																					
4.4	Ingestion : Rinse mouth and drink plenty of water. If symptoms persist, consult a doctor.																					
4.5	Notes to Physician : Symptomatic treatment. Give an anti-foaming agent if necessary.																					
4.6	Special Equipment : None.																					
5 Fire - Fighting Measures																						
5.1	Suitable Extinguishing Media : Water spray jet foam, dry chemicals, CO ₂																					

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5.2	Extinguishing Media to avoid : None.
5.3	Fire and Explosion Hazards : In case of fire, product may form: organic crack products, carbon oxides and sulphur oxides.
5.4	Additional Information : None.
5.5	Special Protective Equipment : Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
6	Accidental Release Measures
6.1	Personal Precautions : See No 8.3 Personal Protective Equipment.
6.2	Environmental Precautions and Methods for Cleaning up : Do not allow to enter drains/surface-water/ ground-water. Inform responsible authorities after accidental release of large quantities. Flush away residue with water.
6.3	Further Information : None.
7	Handling and Storage
7.1	Handling
7.1.1	Precautions for Safe Handling : Avoid contact with eyes and skin.
7.1.2	Precautions in Case of Fire and Explosion : None.
7.2	Storage
7.2.1	Storage Instructions : No special measures necessary if used correctly. Keep eyewash bottle ready.
7.2.2	Store away from : Store away from oxidisers.
7.2.3	Further Information on Storage Conditions : None.
7.2.4	Storage Class : n.av.
8	Exposure Controls and Personal Protection
8.1	Information on System Design : Provide personal protective equipment.
8.2	Exposure Limits :
8.2.1	Material : Ethanol Limit Value : TLV 1000 ppm
8.3	Personal Protective Equipment
8.3.1	General Protection and Hygiene : Avoid contact with eyes and skin. Remove contaminated clothing immediately. Do not eat, drink or smoke whilst using.
8.3.2	Respiratory Protection : No.
8.3.3	Hand Protection : In case of prolonged skin contact, use protective gloves.
8.3.4	Eye Protection : Goggles .
8.3.5	Skin Protection : No.
8.3.6	Further Information : n.ap.
9	Physical and Chemical Properties
9.1	Appearance
9.1.1	Form : viscous
9.1.2	Colour : pale yellow
9.1.3	Odour : fruity
9.2	Safety - relevant Data

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9.2.1	pH-value, undiluted :	c. 7, pH-value, 1% aqueous solution : c. 7
9.2.2	Boiling point/Boiling - range (°C)	n.av., Melting point/Melting range (°C) : n.av.
9.2.3	Flash Point (°C, c.c) :	42 °C
9.2.4	Flammability (EG A10/A 13)	n.av.
9.2.5	Ignition temperature (°C)	n.av.
9.2.6	Autoflammability (EG A16)	n.av.
9.2.7	Oxidizing Properties :	n.av.
9.2.8	Explosion hazard :	n.ap.
9.2.9	Explosion limits (Vol.%) lower :	n.ap., upper : n.ap.
9.2.10	Vapour pressure :	n.av.
9.2.11	Density (g/ml) :	1,1
9.2.12	Solubility (in Water) :	Soluble in : ethanol
9.2.13	Partition coefficient, n-Octanol/Water :	n.av.
9.2.14	Viscosity :	1,2 sec. (4 mm)
9.2.15	Solvent separation test :	n.av.
9.2.16	Solvent content (m %) ;	< 20
9.3	Further Data	
9.3.1	Thermal decomposition (°C) :	n.av.
9.3.2	Vapour density (Air = 1) :	n.av.
9.3.3	Evaporation rate :	n.av.
10	Stability and Reactivity	
10.1	Conditions to avoid :	No hazardous reactions known.
10.2	Materials to avoid :	None.
10.3	Hazardous decomposition Products :	No dangerous decomposition products when properly handled.
10.4	Further Information :	No.
11	Toxicological Information	
11.1	Toxicological Tests :	
11.1.1	Acute Health Effects :	
	Inhalation, LC _{50 rat.} (mg/l/4h) :	n.av.
	Ingestion, LD _{50 rat.} (mg/kg) :	n.av.
	Skin - contact, LD _{50 rat.} (mg/kg) :	n.av.
	Irritation (to Skin/Eye) :	Mildly irritating - not to be labelled.
	Sensitization :	No.
11.1.2	Subacute/chronicle Toxicity :	
	Carcinogenicity :	No.
	Mutagenicity :	No.
	Teratogenicity	No.
	Narcotic Effects :	No.
11.2	Practical Experience	
11.2.1	Observations relevant for classification :	
	No.	
11.2.2	Further Observations :	
	No.	
11.3	General Remarks :	
	The Classification of the preparation has been done by calculation for EEC-rules.	
12	Ecological Information	

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12.1	Elimination (Persistence and Degradability) : The product is biodegradable.				
12.2	Behaviour in Sewage Works: Mobility and Accumulation-potential : n.av. According to the actual knowledge no negative ecological reactions are to be expected.				
12.3	Ecotoxic Effects, aquatic Toxicity : LC50 Leuciscus idus: 11,4mg/l/48h for fatty alcohol C12-14 (2EO)-sulfate, sodium				
12.4	Other ecological Information				
12.4.1	COD-Value, mg/g : n.av.				
12.4.2	BOD₅-Value, mg/g : n.av.				
12.4.3	AOX - Remarks : n.ap.				
12.4.4	Significant Components : n.av.				
13	Disposal Considerations (For national Regulations refer to item 15.)				
13.1	Residues				
13.1.1	Recommendation : D 10 (91/156 EWG) Waste - Code - No.: 07 01 01 Additionally, comply with the regional authorities.				
13.1.2	Safe Handling: See item 7 and 15.				
13.2	Contaminated Packaging				
13.2.1	Recommendation : Wash with suitable cleaner, otherwise as described under residues.				
13.2.2	Safe Handling : As described under residues.				
14	Transport Information				
14.1	Transportation by Road or Railway according to ADR/GGVS and RID/GGVE Remarks : Not dangerous goods according to ADR. Class : Division :				
	Instructions for Transportation in Tanks : Hazard - No : UN-No.:				
14.1.1	Instruction concerning Shipper's Declaration and Packaging: <table border="0"> <tr> <td>Volume or Mass</td> <td>Description of Goods</td> <td>Risk Label</td> <td>Packing - Code or marginal</td> </tr> </table>	Volume or Mass	Description of Goods	Risk Label	Packing - Code or marginal
Volume or Mass	Description of Goods	Risk Label	Packing - Code or marginal		
14.1.2	Listed Cargo as per Appendix B.8 : n.ap.				
14.1.3	Additional Designation in the Shipper's Declaration : Inscription on Packaging :				
14.2	Classification for Transportation by Inland-navigation according to ADNO/GGVBinSch Remarks : Classification has not been done. Class : Division : Category:				
14.2.1	Description of Goods :				
14.2.2	Remarks :				
14.3	Classification for Transportation by Vessels according to IMDG/GGVSee Remarks : Not dangerous goods according to IMDG Class : UN-NO: Packing Group :				
14.3.1	EmS-No. : MFAG-Table				
14.3.2	Marine pollutant : n.ap.				
14.3.3	Instruction for the responsible Declaration and Labelling : (Without consideration of packing sizes for possible exemptions.) Proper Shipping Name : Risk Label :				
14.3.4	Remarks :				
14.4	Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI Remarks : Not dangerous goods according to IATA-DGR. Class : UN-NO. : Packing Group :				

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14.4.1	Instruction for the responsible Declaration and Labelling : (Without consideration of packing sizes for possible exemptions.) Proper Shipping Name: Risk Label : Packing Instructions, Passenger : Cargo :
14.4.2	Remarks :
15	Regulatory Information
15.1	Classification according to EEC-Regulations : Classification required by EEC : No. Application Exemptions : Hazards Identification : Hazards Symbol(s) : Component(s) : R-Phrases : S-Phrases : S2: Keep out of reach of children. S 24/25: Avoid contact with skin and eyes. Additional Markings :
15.1.1	The manner of labelling (Formats, exemptions, additional markings) has to be taken in the relevant regulations.
15.2	National Regulations (valid only for Germany)
15.2.1	Beschäftigungsbeschränkung nach s 15 GefStoffV beachten : No.
15.2.2	Aufbewahrungspflicht nach s 24 GefStoffV beachten : No.
15.2.3	Störfallverordnung beachten : No.
15.2.4	Klassifizierung nach VbF : No. Klasse :
15.2.5	Technische Anleitung Luft : Klasse/Ziffer/Anteil m% III / 3.1.7 / < 10%
15.2.6	Wassergefährdungsklasse : 2 (self-classification) LAGA : Abfallschlüssel : 594 02 Bezeichnung : Surfactants Entsorgungs-Empfehlung : Special waste incinery.
15.2.7	Regelungsbereich der TRGS 514 beachten : No.
15.2.9	Regelungsbereich der TRGS 515 beachten : No.
15.2.10	Regelungsbereich der TRGS 300 beachten : No.
15.2.11	Regelungsbereich der WRMG beachten : Yes.
15.2.12	Gesundheitsschädlich i.S.d. s 2 Abs. 3 Verpackungsverordnung : No
15.2.13	Regelungsbereich der FPV beachten : Yes.
15.2.14	Sonstige zu beachtende Vorschriften : No.
16	Other Information
<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 & Vorschrift, Fischback 19,D - 35418 Großen - Buseck, (+49--6408--7031/32 Receipture of Data : 13.06.1995</p>	