## MATERIAL SAFETY DATA SHEET According to EC Directives 2001/58/EC

1.	<u>Identifi</u>	cation of the s	ubstances or p	preparation a	nd of the compa	<u>any</u>
1.1	Identification of the preparation:					
	Protein Spotter					
	Date of revision: May 13 <sup>th</sup> 2009					
1.2	Company identification:					
	Chemic	Chemical Specialties Manufacturing Corporation				
		Chemspec Europe				
	Unit 36C, Tong Park					
	Otley Road, Baildon					
		orkshire BD17	7QD UK			
	Tel: 01274 597333					
1.2		274 597444	1	1 - 4-2 1 4	•	
1.3	_	ncy telephone		•		
	For medical emergency call Chemtrec at 00-1-703 527-3887					
۷.	2. <u>Composition/Information on ingredients</u>					
2.1	Chemical description:					
	Water, Inorganic nitrogen compound					
2.2		ous ingredients:				
Chemical	%	CAS-NO	EC#	Hazard	R-Phrases	
Name				Symbol		
Ammonium	5-10	1336-21-6	215-647-6	C.N	36,37,38	
Hydroxide						
3.	<u>Hazards</u>	s identification	<u>l</u>			
3.1	To man:	May cause ave	s ckin and uppe	ar raeniratory t	ract irritation	
3.1	To man: May cause eye, skin and upper respiratory tract irritation.					
3.2	3.2 To the environment: None expected if in small quantities					
4.		d measures	•	1		
4.1						
4.2 Eye contact: Flush with water for at least 15 minutes. If irritation persists						
consult physician and possibly an ophthalmologist.						
4.3 Skin contact: Thoroughly wash exposed skin with soap and water. Remove						
any contaminated clothing. If irritation persists, consult physician.						
4.4 Ingestion: Do not induce vomiting. Drink 1-2 glasses of water or milk.						
Consult physician.  1.5 Physician: Programment may be enticipated after sever inhelation or						
ingestion.	4.5 Physician: Pneumonitis may be anticipated after sever inhalation or ingestion					
5.	Fire-fi	ohting maggur	PS			
<ul> <li>5. <u>Fire-fighting measures</u></li> <li>5.1 Suitable extinguishing media: Water, Carbon dioxide or dry chemical</li> </ul>						
5.2						
1 3.2	Onsult	LACIO LACINGUISII	ing incula . 140	TIO WII.		

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5.3	Special exposure hazards: Possibly oxides of carbon,nitrogen,ammonia	
	and possibly other unidentified organic compounds.	
5.4	Special protection equipment for fire-fighters: Self-contained positive	
	pressure breathing apparatus and protective clothing.	
6.	Accidental release measures	
6.1	Personal precautions: Prevent eye and skin contact.	
6.2	Environmental precautions: Dispose of according to local regulations.	
6.3	Methods of cleaning up: Soak up spill with absorbent material and	
	dispose of according to local regulations.	

7.	Handling and storage	2	
7.1	Handling:	Prevent eye and skin contact.	
7.2	Storage:	Keep container in a dry, well ventilated area away	
	From incompatible materials. Protect against physical damage. Keep out of		
	sunlight and away from heat sources.		
7.2.2	Incompatible storage:	Avoid storing in metal containers for long periods	
	of time.		
7.2.3	Other:	None known.	
8.	Exposure controls/pe	rsonal protection	
		nse when handling this product.	
8.1	Respiratory protection:	Use local exhaust or dilution ventilation.	
8.2	Hand protection:	Chemical resistant rubber gloves.	
8.3	Eye protection:	Safety glasses	
8.4	Skin protection:	Use body covered clothing.	
8.5	Working hygiene:	Take usual precautions when handling	
9.	Physical and chemica	l properties	
9.1.1	Appearance:	Clear liquid.	
	Colour:	Colourless	
9.1.2	Odor:	Pungent.	
9.2	pH (as used):	11.6-12.6	
9.3	Boiling point/Boiling	range: not av	
9.4	Specific Gravity:	0.97 g/cc	
9.5	Wt/Gal:	8.12 lbs./gal	
9.6	Solubility in water:	Complete	
9.7	%VOC:	n.av.	
9.8	Flash point:	n.av.	
9.9	Inflammation:	n. av.	
10.	Stability and reactive	ity	
10.1	Conditions to avoid:	Excessive heat.	
10.2	Materials to avoid:	Acids, chlorine and hypochlorite	

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10.3	Hazardous decomposition of materials: See point 5.3.		
11.	<b>Toxicological information</b>		
11.1	Acute toxicity:	n. av.	
11.2	Acute oral toxicity:	Ammonium Hydroxide: LD50 rat:	
>350mg/kg			
11.3	Inhalation: LC50 Mice:	> 4230 ppm	
11.4	Chronic effects:	n. av.	
11.5	Sensitization:	n. av.	
11.6	Carcinogenicity:	n. ap.	
11.7	Mutagenicity:	n. av.	
11.8	Reproductive toxicity:	n. av.	
11.8	Narcotic effects:	n. av.	

12.	Ecological information		
12.1	Water-Hazard class:	n.av	
12.2	Biodegradability:	Readily biodegradable.	
12.3	Bio-accumulation:	n. av.	
12.4	Aquatic toxicity:		
	Ammonium Hydroxide: LC50 Daphnia magna: 32 mg/L		
12.5	Other relevant ecological information: May be harmful to aquatic life.		
13.	<u>Disposal</u>		
13.1	Refer to local regulations.		
14.	Transport information		
	All ingredients in this formula are nor	n- regulated for non-bulk	
15.	Regulations		
15.1	Symbol: <u>Irritant</u>		
	IRRITANT		
15.2	R-Sentences: R36/38: Irritating to ey	es and skin	
	R37: Irritating to respin	ratory system.	
15.3	S-Sentences: S2: Keep out of reach of	of children	
	S24/25: Avoid contact with		
	S37/39: Wear suitable glove	es and eye/face protection.	
16.	Other Information		

## **DISCLAIMER OF LIABILITY**

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the

material and the results to be obtained from the use thereof.

n.ap = not applicable n.av =not available