

MATERIAL SAFETY DATA SHEET

Date Printed: 04/19/96 CMC, Purified Grade Page: 1 MSDS NO: 004

SECTION 1. CHEMICAL COMPOSITION AND COMPANY INFORMATION

PRODUCT NAME LZ 852

SYNONYMS

MANUFACTURERS NAME Akzo Nobel Chemicals

ADDRESS P.O. Box 247 3800 AE Amersfoort

COUNTRY Netherlands

PRODUCT USE Functional Chemical

ISSUE DATE 4/19/96 CHEMICAL NAME Sodium Carboxymethyl Cellulose

CHEMICAL FORMULA

TECHNICAL INFORMATION (303) 832-6226

EMERGENCY CONTACT (303) 832-6226

TRANSPORT EMERGENCY Chemtrec (800) 424-9300

REVISION DATE

REVISION NO.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description:

Sodium Carboxymethyl Cellulose

Composition/ Information on Ingredients Number % w/w

 Number
 % w/w

 1
 98.0 to 100.0

 2
 0.0 to 1.50

 3
 0.0 to 0.40

CAS-Number 9004-32-4 7647-14-5 2836-32-0 Chemical Name Sodium Carboxymethyl Cellulose Sodium Chloride Sodium Glycolate

SECTION 3: HAZARDS IDENTIFICATION

Not classified as a hazardous material.

Dreeland. Inc. 1600 Broadway, Suite 1450 Denver, Colorado 802⁽ (303) 832-6226 Fax (303) 832-5566 1-800-662-8170 AKZO NOBEL

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SECTION 4: FIRST AID MEASURES

Symptoms and effects	No typical symptoms and effects known	
First aid measures		
General	In cases of doubt, or when symptoms persist, seek medical attention	
Inhalation	Move to fresh air. If symptoms persist, seek medical advice	
Skin	Wash immediately with soap and water	
Eyes	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.	
Ingestion	Rinse mouth, give water to drink	
Advice to physician	No specific recommendations	

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT

FLASH METHOD

AUTO IGNITION TEMPERAT 460 degrees C	JRE LOWER EXPLOSION LIMIT 125 g/m ³	
Extinguishing Media	water, carbon dioxide, foam, powder	
Fire Fighting Procedures	This product is considered combustible. If involved in a fire, use suitable extinguishing agents such as water, foams, carbon dioxide extinguishers.	
Fire and Explosion hazards	Sodium carboxymethyl Cellulose mixtures of dust/air may ignite violently upon exposure to sparks or sources of ignition. Use only non sparking tools when working in areas containing concentrations of CMC air.	
Hazardous Products of Combustion	CO. CO ₂ , hydrocarbons	
NFPA HEALTH RATING	NFPA FLAMMABILITY RATING	
NFPA REACTIVITY RATING	NFPA OTHER	



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SECTION 6: ACCIDENTAL RELEASE MEASURES

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Personal precautions	No specific recommendations		
Environmental precautions	Collect as much as possible in a clean container for reuse or disposal		
Cleanup	Preferably dry. Sweep up and place in a container for disposal. Product becomes very slippery when exposed to water.		
-	SECTION 7: HANDLING AND STORAGE		
Handling	Handle in well ventilated areas. Avoid dust generation		
	Keep only in the original packaging and away from water. Material is very hygroscopic and will absorb moisture from the air		
Maximum Storage Temp	Not determined		
General Comments	Keep containers tightly closed until ready for use.		
-			
SECTION	8: EXPOSURE CONTROLS PERSONAL PROTECTION		
Respiratory Protection	In case of dust formation, use a suitable particulate dust mask		
Skin Protection	Not relevant		
Eyes	In dusty areas, protective eye goggles should be worn to prevent CMC from entering the eyes.		
Ventilation Protection	Use sufficient ventilation to prevent the accumulation of dusts. Mixtures air CMC can be explosive.		
-			
SECTI	ON 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	white to off white, free flowing powder		
	odorless		

Boiling point not applicable

Melting Point not applicable



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Flash point	not applicable	
Flammability	not applicable	
Auto ignition temperature	460 degrees C	
Explosive properties	Dust explosion hazard (Class ST-1)	
Oxidizing Properties	not applicable	
Vapor pressure	not applicable	
Bulk Density	15 to 55 lbs.ft ³	
Solubility in water	Soluble (20 degrees C)	
Solubility in Solvents	Insoluble	
Ph Value	6.0 to 8.5 (1% solution)	
Partition coefficient	not determined	
Relative vapor density	not applicable	
Viscosity	10 to 12,000 cps (1% solution)	
SECTION 10: STABILITY AND REACTIVITY		
Stability	This product is stable at recommended storage and handling conditions	
Incompatibilities	Not relevant	
Polymerization	Hazardous polymerization will not occur	
Decomposition	Thermal decomposition produces CO. CO ₂ , hydrocarbons	
Conditions to avoid	Not relevant	

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SEC	TION 11: TOXICO	LOGICAL INFORMATION		
Acute Toxicity	Oral LD50, rat 15000-27000 mg/kg			
Irritation				
Sensitization	Not sensitizing (Human experience) (Lit.)			
Genotoxicity	Ames Test; not mutagenic (lit.			
Other toxicological Info	Not carcinogenic Not teratogenic Not embryotoxic			
SI	ECTION 12: ECOLO	OGICAL INFORMATION		
Name	Carboxymethyl Cellulose			
Ecotoxicity				
Fate Degradation Biotic	SCAS test: Inhere	ntly biodegradable (Akzo E-File)		
SE	ECTION 13: DISPO	SAL CONSIDERATIONS		
Waste Disposal	According to local	regulations, non-hazardous		
Contaminated packaging	According to local	regulations		
<u>S</u>	ECTION 14: TRAN	SPORT INFORMATION		
Land Transport				
ADR Class	not restricted	ADR item number	not re	elevant
RID Class	not restricted	RID item number	not re	levant
Hazard Identification No.	not relevant	Substance Identification No.	not re	levant
TREM Card	not relevant	UN Number	none	Dreeland, Inc.
Proper Shipping Nume	not relevant	National Regulations	none	1600 Broadway.



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SECTION 14: TRANSPORT INFORMATION (cont.)

Sea Transport			
IMO/IMDG code	not restricted	Class	not restricted
Packing Group	not relevant	UN Number	
EMS	not relevant	MFAG	not relevant
Marine Pollutant	no	Proper shipping name	not relevant
Other Information	-4i 191	M:	
Air Transport			
IATA/ICAO-DGR		UN Number	
Class	not restricted	Packing Group	not relevant
Proper shipping name	not relevant		
Other information			

SECTION 15: REGULATORY INFORMATION

Chemical Description	Carboxymethyl Cellulose
Annex-1 Number	none
Symbols	none
Risk phrases	none
Safety Phrases	none
	SECTION 16: OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other products or in any process. This information is to the best of our knowledge correct and complete and is given in good faith but without warranty. It remains the users own responsibility to make sure the information is appropriate and complete for his special use of this product.

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