

MATERIAL SAFETY DATA SHEET

Date Printed: 04/19/96
CMC, Purified Grade

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MSDS NO: 004

SECTION 1. CHEMICAL COMPOSITION AND COMPANY INFORMATION

PRODUCT NAME
LZ 852

CHEMICAL NAME
Sodium Carboxymethyl Cellulose

SYNONYMS

CHEMICAL FORMULA

MANUFACTURERS NAME
Akzo Nobel Chemicals

TECHNICAL INFORMATION
(303) 832-6226

ADDRESS
P.O. Box 247
3800 AE Amersfoort

EMERGENCY CONTACT
(303) 832-6226

COUNTRY
Netherlands

TRANSPORT EMERGENCY
Chemtrec (800) 424-9300

PRODUCT USE
Functional Chemical

REVISION DATE

ISSUE DATE
4/19/96

REVISION NO.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Sodium Carboxymethyl Cellulose

Composition/ Information on Ingredients

Number	% w/w	CAS-Number	Chemical Name
1	98.0 to 100.0	9004-32-4	Sodium Carboxymethyl Cellulose
2	0.0 to 1.50	7647-14-5	Sodium Chloride
3	0.0 to 0.40	2836-32-0	Sodium Glycolate

SECTION 3: HAZARDS IDENTIFICATION

Not classified as a hazardous material.



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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 TEMPERATURE 460 degrees C	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

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.

SECTION 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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SECTION 11: TOXICOLOGICAL 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

SECTION 12: ECOLOGICAL INFORMATION

Name Carboxymethyl Cellulose

Ecotoxicity

Fate

Degradation Biotic SCAS test: Inherently biodegradable (Akzo E-File)

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal According to local regulations, non-hazardous

Contaminated packaging According to local regulations

SECTION 14: TRANSPORT INFORMATION

Land Transport

ADR Class	not restricted	ADR item number	not relevant
RID Class	not restricted	RID item number	not relevant
Hazard Identification No.	not relevant	Substance Identification No.	not relevant
TREM Card	not relevant	UN Number	none
Proper Shipping Name	not relevant	National Regulations	none

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MSDS NO: 004**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	none		

Air Transport

IATA/ICAO-DGR		UN Number	
Class	not restricted	Packing Group	not relevant
Proper shipping name	not relevant		
Other information	none		

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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