

Carbotal GL 36

Carbotal GL 36 is a purified water soluble polymer derived from naturally occurring cellulose. It is an excellent rheology modifier for glazes and engobes application and prevents sedimentation. It is widely used in Ceramic Industry.

Molecular formula $[C_6H_7O_2(OH_2)OCH_2COONa]_n$

Specifications

Chemical base.....	Carboxymethyl cellulose, sodium salt
Purity (on dry basis), min.	96 – 99 %
Appearance:	white to off white color
Solubility:	soluble in water
Moisture content (packed), max. :	10 %
Degree of substitution	0.85 – 0.95
Viscosity (soln.2% BF), cps	20 - 100
pH (soln.2 % deionized water), max.....	6.5 – 8.0

Advantages

- Improving the rheological property of glaze formation.
- Improving the glaze adhesion and reducing the glaze cracking.
- Stabilizing the physical and chemical properties of glaze formation
- It is a very good water retention agent.

Usage and Dosage:

According to different recipes, dosage from 0.1% to 0.4 % calculated on dry bases.

Packing and Storage:

20 kg Kraft paper bag, or other packing as client request.

Store in cool, dry, clean and ventilated area

Shelf life :

2 years if kept under good storage conditions.

For more information our technical team ready for co operation

MATERIAL SAFETY DATA SHEET

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY UNDERTAKING

PRODUCT LABEL NAME	CARBOXYMETHYL CELLULOSE
SUPPLIER	ALBATTAL CHEMICAL INDUSTRIES DAMMAM 31441 SAUDI ARABIA P.O. BOX 1738
EMERGENCY TELEPHONE	013 - 8128881 - 8128882
INTENDED USE	CERAMIC INDUSTRIES

COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives

Information on hazardous ingredients

CHEMICAL DESCRIPTION

CARBOXYMETHYL CELLULOSE

COMPOSITION/INFORMATION ON INGREDIENTS

Number	% W/W	CAS- Number	Chemical name
1	70.0 - 100	9004 - 32 - 4	Carboxymethyl Cellulose
2	0.0 - 12.5	7647 - 14 - 5	Sodium chloride
3	0.0 - 2.5	2836 - 32 - 0	Sod. Hydroxyacetate
Number	EC Number	Annex - 1 Number	Risk - phase(s)
1		None	None
2	231 - 598 - 3	None	None
3	220 - 624 - 9	None	None

HAZARDS IDENTIFICATION

No classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive

HAZARDS IDENTIFICATION

SYMPTOMS AND EFFECTS	No typical symptoms and effects known
FIRST AID	
GENERAL INHALATION	In all cases of doubt, or if symptoms persist, seek medical advice
SKIN	Wash immediately with soap and water.
EYE	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to insure thorough rinsing Seek medical attention if irritation develops.
INGESTION	Rinse mouth, give water to drink
ADVICE TO PHYSICIAN	No specific recommendations

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Water, carbon dioxide, foam, powder
UNSUITABLE EXTINGUISHING MEDIA	None known
SPECIAL EXPOSURE HAZARDS	Dust/air mixtures may ignite upon exposure to sparks or hidden sources of ignition
HAZARDOUS DECOMPOSITION/ COMBUSTION PRODUCTS	CO, CO ₂ , hydrocarbons
PROTECTIVE EQUIPMENT	In case of insufficient ventilation, wear adequate respiratory protection
OTHER INFORMATION	Wet floors on which this product is spilt may become very slippery.

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	No specific recommendations
ENVIRONMENTAL PRECAUTIONS	Collect as much as possible in a clean container for (preferable) reuse or disposal
METHOD FOR CLEAN UP	Preferably dry. Sweep up and put it into a container for disposal

HANDLING AND STORAGE

HANDLING	Handle in well ventilated areas. Avoid dust generation
FIRE AND EXPLOSION PREVENTION	No sparking tools should be used (dust/air mixture may ignite violently upon exposure to sparks or sources of ignition)
STORAGE REQUIREMENTS	Keep only in the original container Keep container dry (hygroscopic)

EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Provide adequate ventilation
EXPOSURE LIMITS	No exposure limits have been established for this material
PERSONAL PROTECTION	
RESPIRATORY	In case of dust formation, use dust mask
HAND	No relevant
EYE	No relevant
SKIN AND BODY	No relevant

STABILITY AND REACTIVITY

STABILITY	Stable under recommended store and handling conditions
CONDITIONS TO AVOID	Avoid dust generation
MATERIALS TO AVOID	Not relevant
HAZARDOUS DECOMPOSITION	No typical hazardous decomposition products known

TOXICOLOGY INFORMATION

NAME	Polyanionic cellulose
ACUTE TOXICITY	
ORAL LD50	Rat: 15000 - 27000MG/KG (L/T)
SENSITIZATION	Not sensitizing (Human experience) (L/T)
GENOTOXICITY	Ames test: Not mutagenic (L/T)
OTHER INFORMATION	Not teratogenic (L/T) Not embryo toxic (L/T)

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Free flowing powder
COLOR	Off white
ODOR	odourless
BOILING POINT/RANGE	N/A
MELTING POINT/RANGE	N/A
FLASH POINT	N/A
FALMMABILITY	N/A
AUTOIGNITION TEMPERATURE	> 250°C
EXPLOSIVE PROPERTIES	Dust explosion hazard (class ST)
EXPLOSION LIMITS LIMITS	Not determined
OXIDIZING PROPERTIES	N/A
VAPOR PRESSURE	N/A
DENSITY	1500 kg/m ³
BULK DESITY	300 - 900 kg/m ³
SOLUBILITY IN WATER	Soluble (20°C)
SOLUBILITY IN OTHER SOLVENT	N/A
PH VALUE	7.0 - 9.0 (1% solution)
PARTITION CO-EFFICIENT N-OCTANOLWATER	Not determined
(RELATIVE VAPOR DENSITY (AIR= 1)	N/A
VISCOSITY	20 - 100 cps (2% solution,25°C)

ECOLOGICAL INFORMATION

NAME	Carboxymethyl Cellulose
DEGRADATION BIOTIC SCAS test	Inherently biodegradable

DISPOSAL CONSIDERATIONS

PRODUCT	According to local regulations (most probably controlled incineration)
CONTAMINATED PACKING	According to local regulations

TRANSPORT INFORMATION

EC NUMBER	See section 2
SYMBOL(S)	None
RISK PHRASE(S)	None
SAFETY PHRASE(S)	None



OTHER INFORMATION

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