



NFPA FIRE HAZARD
IDENTIFICATION SYSTEM

RM 40C

MATERIAL SAFETY DATA SHEET



I. PRODUCT IDENTIFICATION

Trade Name(s): RM 40C	
Generic Name(s): Hydrated Magnesium sodium carboxyl silicate (CAS No. 11097-59-9)	
Chemical Name(s): Hydrated Magnesium sodium carboxyl silicate (CAS No. 11097-59-9)	
Manufacturer: Oil Pollution Services Limited Address: Bedford Heights Manton Lane, Bedford MK41 7PH	Telephone Numbers: Information: +44(0) 1234 219775 EMERGENCY: +44(0) 7790 611860

II. HAZARDOUS INGREDIENTS

Ingredient	CAS NO.	%	Hazard
Hydrated Magnesium sodium carboxyl silicate	11097-59-9	95-100	The material should be stored in a dry place as it hygroscopic

Note:

III. PHYSICAL DATA

Boiling Point (°F): NA	Specific Gravity (H ₂ O=1): 2.2
Vapor Pressure (mm. Hg): NA	Melting Point: Approx. 450°C
Vapor Density (Air = 1): NA	Evaporation Rate (Butyl Acetate = 1): NA
Solubility in Water: Insoluble, forms colloidal suspension.	pH: 9(5% aqueous suspension)
Density (at 20° C): 2.2kg/l. as product.	
Appearance and Odor: White / yellow as dry powder. No odor.	

IV. FIRE AND EXPLOSION DATA

Flash Point: NA	Flammable Limits: LEL: NA UEL: NA
Special Fire Fighting Procedures: NA	
Unusual Fire and Explosion Hazards: None. Product will not support combustion. However product will generate 570 btu/lb on hydration	
Extinguishing Media: None for product. Any media can be used for the packaging. Product becomes slippery when wet.	

V. REACTIVITY

Stability: Stable
Hazardous Polymerization: None
Incompatibility: None
Hazardous Decomposition Products: None
NA = Not Applicable ND = Not Determined

VI. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: none.

Eyes: Mechanical irritant.

Inhalation:

Chronic (long term) exposure to airborne dust containing respirable size ($\leq 10 \mu$) particles, where respirable particle levels are higher than TLV's, may lead to development of silicosis or other respiratory problems. Persistent dry cough and laboured breathing upon exertion may be symptomatic.

Ingestion: No adverse effects.

Permissible Exposure Limits:
(for air contaminants)

OSHA PEL
(8hr. TWA)

ACGIH TLV

As "Particulates not otherwise regulated" (formerly nuisance dust)

Total dust 10mg/m³

ND

Respirable dust 0.5 mg/m³

ND

Carcinogenicity Aluminium Sodium carboxyl silicate is not listed by NTP or OSHA. IARC, 1997, concludes that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica from occupational sources (IARC Class 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity.

Acute Oral LD₅₀: ND

Acute Dermal LD₅₀: ND

Aquatic Toxicology LC₅₀: ND

Emergency and First Aid Procedures:

Skin: Wash with soap and water until clean.

Eyes: Flush with water until irritation ceases.

Inhalation: Move to area free from dust. If symptoms of irritation persist contact physician. Inhalation may aggravate existing respiratory illness.

VII. HANDLING AND USE PRECAUTIONS

Steps to be taken if Material is Released or Spilled: Avoid breathing dust; wear respirator approved for dust. Vacuum up to avoid generating airborne dust. Avoid using water. Product slippery when wetted. Product is also exothermic when wet.

Waste Disposal Methods: Product should be disposed of in accordance with applicable local, state and federal regulations.

Handling and Storage Precautions: Use NIOSH/MSHA respirators approved for silica bearing dust when containing airborne silica dust levels exceed PEL/TLV's. Clean up spills promptly to avoid making dust..

VIII. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Mechanical, general room ventilation. Use local ventilation to maintain PEL's/TLV's.

Respirator:

Eye Protection: Generally not necessary. Personal preference.

Gloves: Generally not necessary. Personal preference.

Other Protective Clothing or Equipment: None

IX. SPECIAL PRECAUTIONS

Avoid immersion in water

DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIAL INFORMATION

Shipping Name: NA (Not Regulated)

Hazard Class: NA

Hazardous Substance: NA

Caution Labeling: NA

Date Revised: March 2009

Doc #: 10000-01

All information presented herein is believed to be accurate, however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by Oil Pollution Services Ltd. as to this information, or as to the safety, toxicity or effect of the use of this product.