

NM-Carbomer Aqua 30

I-CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: NM-Carbomer Aqua 30

INCI Name: Acrylates Copolymer

CHEMICAL FAMILY: Mixture

DESCRIPTION/ USE: Highly efficient thickening suspension stabilizer, high yield value, keeps the system viscosity stable, enhance penalizing effect, has freeze-thaw stable property, after frozen to soil form, it can quickly return to liquid form by heating without affecting its normal use. Use in Gel, hair styling, skin care and shampoo.

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II-HAZARDS SUMMARIZING

A. EMERGENCY OVERVIEW

PHYSICAL APPEARANCE AND ODOUR: Clean viscous glue the dense liquid, slight amine odor.

WARNING SIAIEMENTS: WARNING EYE IRRITATION.

B. POTENTIAL GEALTH EFFECTS:

ACUTE EYE: Irritation, May cause redness, irritation

ACUTE SKIN: Low cause dreamt toxicity, slightly irritating, May cause redness, irritation.

ACUTE INGALATION: Inhalation not likely, Mists may cause upper respiratory, inhalation.

ACUTE INGESTION: Practically non-toxic

CRONEC EFFECTS: This product does not contain any ingredient designate by National hygiene section as probable or suspected human carcinogens.

III- COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS
Acrylates Copolymer	25035-69-2
Water	7732-18-5

IV-FIRST-AID MEASURES

FIRST AID MEASURES FOR ACCIDENTAL:

EYE EXPOSURE: Held eyelids open and flush with a steady ,gentle stream of water for at least 15minutes Seed medical attention.

SKIN EXPOSURE: In case of contact, immediately wash with plenty of soap and water for at least 5minutes, see medical, Remove contaminated clothing and shoes, clean contaminated clothing and shoes before use.

INHALATION: Inhalation is not an expected route of exposure, if respiratory irritation or distress occur remove victim to fresh air .Seek medical attention if respiratory irritation or distress continues.

INGESTION: If victim is conscious and alert, give 1-2glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim

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unattended.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

Skin condition may aggravate existing skin disease.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically, No specific antidote available.

V-FIRE-AID MEASURES

FLASH POINT: $>93^{\circ}\text{C}$ (200°F), flammability Class : WILL BURN

METHOD USED: Closed Cup

FLAMMABILITY LIMITS (vol/vol%) : Lower= No Data Upper =No Data

EXTINGUISHING MEDIA: Recommended (small fire) : Carbon dioxide, dry chemical.

Recommended (large fire) : Alcohol foam, universal water spray.

Special Fire Fighting procedures: Fire fighters should wear fire NIOSH/MSHA approved self-contained breathing, apparatus and full protective clothing,.

Unusual Fire and Explosion Hazards: Product will burn under fire conditions. Closed containers may explode (due to the build-up of pressure) when exposed to excessive heat.

HAZARDOUS DECOMPOSITION MATERIALS (UNDER FIRE CONDITIONS) : Oxides of nitrogen and carbon.

VI-ACCIDENTAL RELEASE MEASURES

EVACUATION PROCEDURES AND SAFETY: Wear appropriate protective gear for the situation, See Personal Protection information in Section VIII.

CONTAINMENT OF SPILL: Follow procedure described below under CLEANUP AND DISPOSAL OF SPILL.

CLEANUP AND DISPOSAL OF SPILL: Absorb with an inert absorbent, Sweep up and place in an appropriate closed container (see Section VII: Handling and Storage), Clean up residue material by washing area with water, Collect washing for disposal.

ENVIRONMENTAL AND REGULATORY REPORTING: Do not flush to drain, spills may be reportable to the National Response Center and to state and / or local agencies.

VII-HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: $-20\sim 30^{\circ}\text{C}$ (-68 to 86°F) recommended. HANDLING: This product may freeze in cold weather, here it does not affect product quality, if frozen, thawed and dissolved before use, the material can be thawed in a greenhouse ($\leq 40^{\circ}\text{C}$), carefully heated bulging leak, change the physical properties of the mixture.

The product should be filtered prior to use or unloading into another storage vessel. Transfer of the product should be done using a low shear pump. (High shear pumping of the concentrated polymer can promote coagulation.) For storage in tanks, it is further recommended that the tank be periodically agitated to prevent and correct any settling that may occur. The storage and mixing tanks should ideally be constructed with stainless steel. Do not use low carbon steel, manganese, copper, aluminum or zinc storage containers. To prevent "skin" on the surface of the liquid, drums should not be opened until used and holding tanks (containing bulk polymer dispersion) should ideally be nitrogen blanketed.

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STRAGE: Incompatible materials (SEE Section X: Stability and Reactivity) Expected shelf life if stored at recommended temperatures, unopened packaging complete: 18 months.

VIII -EXPOSURE CONTROL/ PERSONAL PROTECTION

INTRODUCTORY REMARKS:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste

Resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Exposure Guidelines: Exposure limits represent regulated or recommended worker breathing zone concentrations measured by sampling and analytical methods. Meeting the regulatory requirements.

Engineering Controls: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures wet processing methods to reduce dust generation.

Respiratory Protection: When respirators are required, select the occupation safety manages the section approved equipment, based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standard and/or industrial recommendations. For reasonably foreseeable industrial end uses of this material respiratory protection should not be necessary.

Eye /Face Protection: Eye and face protection equipments will vary dependent upon work environment conditions and material handling practices .Appropriate the department concerned approved equipment should be selected for the particular use intended for this material .Eye contact should be prevented through the use of chemical safety glasses with side shields or splash proof goggles. Emergency eyewash must be readily accessible to the work area.

Skin Protection: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (l.c. shirts and pants) Consideration must be given both to durability as well as permeation resistance.

Work Practice Controls: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material.

- (1) Do not store ,use ,and/or consume foods, beverages ,tobacco products, or cosmetics in areas where this maternal is stored.
- (2) Wash hand and face carefully eating, drinking, using tobacco applying cosmetics ,or using the toilet.
- (3) Wash exposed skin promptly to remove accidental splashes or contact with this material.

IX-PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Milky, white liquid

Odor: mild acrylic

H2O SOLUBILITY : can be dispersed in water

PH (original liquid) :2.0~4.0

SPECIFIC GRAVITY: 1.05 ± 0.3 (d20,Densimeter)

VAPOUR DENSITY :<0.1mmHg@25°C

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SOLID (%) : 30.0 ± 2.0

VAPOUR PRESSURE : <235mmHg at 25°C

X-STABILITY AND REACTIVITY

STABILITY: Stable under normal handling and storage conditions described in Section VII.

CONDITIONS TO AVOID: Excessive heat, open flame and spark.

MATERIALS TO AVOID: Strong bases, strong oxidizing agents and strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of nitrogen and carbon.

HAZARDOUS POLYMERISATION: Will not occur.

XI-TOXICOLOGY INFORMATION

ACCUTE EYE IRRITATION: The following data are for similar or related product:

Eye : There may be stimulative effects and corrosion effects, but the lighter of the same products.

ACCUTE SKIN IRRITATION: It may irritate the skin and mucous membranes and may cause corrosive effects on the skin and mucous membranes, but the product of the same kind is lighter.

ACCUTE INHALATION TOXICITY: No test data found for product.

ACCUTE ORAL TOXICITY: LD50 lethal dose 50% of test species, >5000mg/Kg, Data for a similar product with the same active ingredient.

XII-ECOLOGICAL INFORMATION

Degradation: no data of this product was found;

Ecotoxicity: toxic to fish and plankton in water;

Water hazard level (Germany regulation) (self-assessed via the list) : water is slightly hazardous and do not expose undiluted or substantial products to groundwater, waterways or sewage systems.

Chemical disaster data: no data for this product was found.

XIII-DISPOSAL

WASTE DISPOSAL METHOD: Chemical additions processing or otherwise altering this material may make the waste management in the MSDS, incomplete inaccurate or otherwise inappropriate. Please be advised that state and local requirement for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

XIV-TRANSPORT INFORMATION

CONTAINER HANDLING AND DISPOSAL: Any containers or equipment used should be decontaminated immediately after use.

EPA HAZARDOUS WASTE: No.

TRANSPORTATION STATUS: IMPORTANT Statements below provide additional data on listed DOT Classification. Not subject to IATA regulations

The listed Transportation Classification does not address regulatory descriptors.

US DEPARTMENT OF TRANSPORTATION: Shipping Name Not regulated.

TRANSPORTATION REQUIREMENTS: the product must be covered in the transportation process to

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prevent sun, rain, heat and packaging from breaking. Handling should be lightly loaded to avoid extrusion deformation, the height of stacking should not exceed 2.

XV.-REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council Decree No. 591), for the safe use of hazardous chemicals, production, storage, transport, handling, etc. are made corresponding provisions.

"Hazardous Chemicals Directory 2015 Edition", not in the Dangerous Chemicals List. It does not require identification.

According to EU regulations, when handling chemicals should follow general rules.

XVI.-OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION RATINGS ...NFPA (R)

Health Hazard Rating – Minimal

Flammability Rating – slight

Instability Rating – minimal

NATIONAL PAINT & COATING HAZARDOUS MATERIAL IDENTIFICATION SYSTEM ...CHMIS (R)

Health Hazard Rating – Minimal

Flammability Rating – slight

Reactivity Rating – Minimal

The above information is accurate only when the product is properly sealed. We do our best to provide all the accurate information we know at the moment, but there is no guarantee. Due to its special function, users are obliged to know the product properly and thoroughly. Anhui Newman Fine Chemicals Co., Ltd shall not be responsible for any loss, damage of any third party using this product, any indirect loss, or punitive damages.

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