NANOPLAS, Inc.

"Tiny Solutions to Large Problems"

www.nanomoldrelease.com

Material Safety Data Sheet

NMC-QC

Rev 1.0

This MSDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: NMC-QC
Product Use: Water-borne coating, Release agent
Manufacturer: Nanoplas, Inc.
1901 Godfrey Ave., SW
Grand Rapids, MI 49509

Revised: 11-6-12
Transport Emergency : INFOTRAC: 1-800-535-5053 (outside the U.S. 1-352-323-3500)
Other information : professional use

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview
The thermal decomposition vapors of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Shortness of breath

Potential Health Effects
Skin: May cause skin irritation.
Eyes: May cause eye irritation.
Inhalation: May causes respiratory tract irritation, and shortness of breath

Carcinogenicity
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Water	7732-18-5	85-97%
Propylene Glycol	57-55-6	0-10%
Proprietary Resins		1-8%

SECTION 4. FIRST AID MEASURES

Skin contact: If on skin, rinse well with water. Wash contaminated clothing before re-use. Consult a physician if necessary.
Eye contact: Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
Ingestion: DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Call a physician.
General advice: When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties
Flash point: does not flash

Thermal decomposition:	300 °C (572 °F)
Fire and Explosion Hazard:	In fire conditions, toxic decomposition products may be formed. (see also section 10)
Suitable extinguishing media:	The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Firefighting Instructions:	Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment. Evacuate personnel to safe areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel):	Ventilate spill area.
Spill Cleanup:	Dike spill. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Accidental Release Measures:	Prevent material from entering sewers, waterways, or low areas.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel):	Do not breathe vapors or spray mist. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.
Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not freeze. Perishable if frozen.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:	Use only with adequate ventilation. Do not aerosolize. Personal protective equipment
Respiratory protection:	Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. In the case of dust or aerosol formation use respirator with an approved filter.
Hand protection:	Material: Impervious gloves
Eye protection:	Safety goggles
Skin and body protection:	Preventive skin protection Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.

Exposure Guidelines

Exposure Limit Values

* AEL is Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

None established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	White
Odor:	Slight, sweet
Ph:	Neutral
Freezing point:	0 °C (32 °F)
Boiling point:	100 °C (212 °F)
% Volatile:	89 - 98 %

Vapor pressure:	30 mm Hg at 25 °C (77 °F)
Specific Gravity:	0.99
Water solubility:	Dispersible
Vapor density:	>1 (Air = 1.0)

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	Decomposition temperature 300 °C (572 °F) Decomposes on heating.
Incompatibility:	Incompatible with oxidizing agents.
Hazardous decomposition products:	Hazardous thermal decomposition products: Silicon dioxide, Carbon oxides, nitrogen oxides (NOx), metal oxides, Sulphur compounds, Methanol , Formaldehyde
Hazardous reactions:	Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

NMC-QC

Inhalation 4 h ALC:	> 0.50 mg/l male, rat
Oral ALD:	> 11,000 mg/kg, rat
Skin irritation:	No skin irritation
Eye irritation:	No eye irritation
Sensitization:	Did not cause sensitization on laboratory animals
Further information:	Information given is based on data on the components and the toxicology of similar products.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

96 h LC50:	Oncorhynchus mykiss (rainbow trout) 180 mg/l
72 h EC50:	Pseudoriella subcapitata (green algae) > 1,000 mg/l
48 h EC50:	Daphnia magna (Water flea) > 1,000 mg/l The toxicological data has been taken from products of similar composition.

Propylene Glycol

48 h LC50: Cyprinus carpio (Carp) 6,000 mg/l**SECTION 13. DISPOSAL CONSIDERATIONS**

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Waste Disposal:	In accordance with local and national regulations.
Environmental Hazards:	If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA Status:	On the inventory, or in compliance with the inventory
Title III hazard Classification:	Acute Health Hazard: Yes Chronic Health Hazard: No Fire: No Reactivity/Physical hazard: No Pressure: No

PA Right to Know

Regulated Chemical(s): Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):
Propylene Glycol

SECTION 16. OTHER INFORMATION

HMIS

Health:	1
Flammability:	0
Reactivity:	0

PPE: Personal Protection rating to be supplied by user depending on use conditions.

MSDS preparation date: 5/27/2011

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