

1. Identification

Product name:	Nano Mold Coating QCS
Recommended use:	Plastic injection mold coating.
Restrictions on use:	None known
Supplier:	Nanoplas 2950 Prairie Street South West Suite 900 Grandville, MI 49418 T (616)-452-3707
Emergency number:	For Chemical Emergency Call INFOTRAC 24hr/day 7days/week Within USA, Mexico and Canada: 800-535-5053 ID# 102222 Outside USA, Mexico and Canada: 1-352-323-3500 ID# 102222

2. Hazard(s) identification
Classification:

Physical hazards	Health hazards
Not classified	Serious eye damage, Category 1

GHS US labelling:

Danger!



CONTAINS: Fluorocarbon dispersion

Hazard statements (GHS US)	Precautionary statements (GHS US)
H318 - Causes serious eye damage.	P280 - Wear eye protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a poison center.

3: Composition/information on ingredients

Component	CAS-No.	Amount (%)
Fluorocarbon dispersion	Proprietary	1 - 20

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

4. First-aid measures
Inhalation: Move the affected person to the fresh air. Get medical attention if symptoms occur.

Skin: Wash skin with plenty of water. Get medical advice if skin irritation persists.

Eyes: Immediately flush eyes thoroughly with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Ingestion: Rinse mouth. Call a poison center or a doctor if you feel unwell.

Symptoms/effects: Causes serious eye damage.

Immediate medical attention and special treatment, if necessary: Immediate medical attention is required for eye contact.

5. Fire-fighting measures

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None.

Combustion products: Fluorinated hydrocarbons, carbonyl fluoride, hydrogen fluoride, carbon dioxide, and carbon monoxide.

Fire hazard: This product is not classified as flammable or combustible.

Special protective equipment and precautions for fire-fighters: Do not attempt to take action without suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate area. Wear suitable protective clothing. Avoid contact with eyes, skin and clothing.

Methods and material for containment and cleaning up: Collect spillage. Take up liquid spill into absorbent material. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13)..

7. Handling and storage

Precautions for safe handling: Prevent eye contact. Wear personal protective equipment. Avoid contact with eyes, skin and clothing. Wash hands with water and soap. Ensure adequate ventilation.

Storage conditions: Prevent eye contact.

8. Exposure controls/personal protection

Exposure guidelines:

Fluorocarbon dispersion	5 mg/m ³ TWA OSHA PEL 3 mg/m ³ TWA ACGIH TLV
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Appropriate engineering controls: General ventilation should be adequate for all normal use. For operations where the exposure limits may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.

Environmental exposure controls: Avoid release to the environment.

Personal protective equipment:

Hand protection: Impervious gloves recommended to avoid skin contact.

Eye protection: Wear safety goggles if eye contact is possible.

Skin and body protection: Appropriate protective clothing as needed to avoid prolonged or repeated skin contact.

Respiratory protection: None under normal use conditions. For operations where the exposure limits are exceeded, a NIOSH approved respirator with an organic vapor cartridge or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and 1910.1028; and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

9. Physical and chemical properties

Appearance: White liquid.

Physical state : Liquid

Colour : Colourless

Odour : characteristic

Odour threshold : No data available

pH : No data available

Melting point : 32°F (0°C)

Freezing point : 32°F (0°C)

Boiling point : 212°F (100°C)

Flash point : 420.8°F (216°C)

Relative evaporation rate (butylacetate=1) : < 0.02 (n-Butyl acetate =1)

Flammability (solid, gas) : Not applicable.

Vapour pressure : 2.41 kPa at 21 C

Relative vapour density at 20 °C : 1

VOC content : 1 - 20

Relative density : 1

Solubility : Soluble in water.

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : 572°F (300°C)

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive limits : No data available

Explosive properties : No data available

Oxidising properties : No data available

10. Stability and reactivity

Reactivity: Not reactive

Chemical stability: Stable under normal storage and handling conditions..

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: None known.

Incompatible materials : Oxidizers, strong acids and strong bases.

Hazardous decomposition products: Thermal decomposition will produce fluorinated hydrocarbons, carbonyl fluoride, hydrogen fluoride, carbon dioxide, and carbon monoxide.

11. Toxicological information

Inhalation: May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin: May cause slight irritation to the skin.

Eyes: Serious damage to eyes.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Carcinogenicity: Not classified
Fluorocarbon dispersion: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Germ cell mutagenicity: Not classified
Reproductive toxicity: Not classified
Numerical measures of toxicity: Product ATE: LD50 Oral: > 5,000 mg/kg.

The following are the toxicity values for the components:

Fluorocarbon dispersion: LD50 Oral Rat: 1,100 mg/kg
LD50 Skin Rabbit: 2,000 – 5,000 mg/kg

Skin corrosion/irritation Not classified
Serious eye damage/irritation Causes serious eye damage.
Respiratory or skin sensitisation Not classified
STOT-single exposure Not classified
STOT-repeated exposure Not classified

Aspiration Hazard Not classified

12. Ecological information

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Ecotoxicity:

Fluorocarbon dispersion: LC50: Minnow 8.5 - 11 mg/L/96 hr.
EC50: Daphnia 2.7 - 12 mg/L/48 hr

Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available

Other adverse effects:

No data available

13. Disposal considerations

Waste treatment methods: Dispose in accordance with all local, state and federal regulations.

14. Transport information

Department of Transportation (DOT)

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

15. Regulatory information

SARA Section 313 - Emission Reporting: Not subject to reporting requirements of the United States SARA Section 313

CERCLA Section 103:

This product is not subject to reporting under CERLCA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA 302:

Not applicable

SARA Section 311/312 Hazard Classes: Refer to Section 2 for OSHA Hazard Classification.

California Proposition 65:

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

TSCA: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

16. Other information

Revision date 07/10/2023

NFPA	
NFPA health hazard:	3
NFPA fire hazard:	1
NFPA reactivity:	0

HMIS Hazard Rating	
Health:	3
Flammability:	1
Physical:	0

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. The company listed in Section 1 shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.