SAFETY DATA SHEET

DT-NNL 001

Version	Revision Date:		Date of last issue: 06/11/2015
0.0	00/00/0000		Date of first issue: 09/12/2013

SECTION 1. IDENTIFICATION

Identification of the company:	OSM Shield, LLC 97 Main Street Suite W-202 Edwards, CO 81632 (970) 390-8717
Trade name:	DT-NNL 001
Chemical family:	perfluoroalkyl acrylic copolymerisate aqueous emulsion

Recommended use of the chemical and restrictions on use

Recommended use:	Textile finish
Recommended restrictions on use:	No use of the PMN substance in consumer products with spray applications. End uses are limited as coating material in textiles and / or paper.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	:	perfluoroalkyl acrylic copolymerisate aqueous emulsion

Hazardous components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4. FIRST AID MEASURES

General advice	:	Remove/Take off immediately all contaminated clothing.

If inhaled	:	If inhaled, remove to fresh air.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation develops and persists.
If swallowed	:	If swallowed do not induce vomiting,seek medical advice and show safety datasheet or label
Most important symptoms and effects, both acute and delayed	:	The possible symptoms known are those derived from the labelling (see section 2). No additional symptoms are known.
Notes to physician	:	None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray jet Dry powder Carbon dioxide (CO2) Alcohol-resistant foam
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx) Hydrogen fluoride Hydrogen chloride Sulphur oxides Burning produces noxious and toxic fumes.
Further information	:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
Special protective equipment for firefighters	:	Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear suitable protective equipment. Information regarding Safe handling, see chapter 7.

Environmental precautions	:	The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	:	Allow to set, then clean floors and contaminated objects mechanically. Remove rest with binding agent.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Observe the general rules of industrial fire protection
Advice on safe handling	:	Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Avoid formation of aerosol.
Conditions for safe storage	:	Keep container closed. Store in original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures	:	Where mist is present, provide local exhaust ventilation or a respirator certified for mist by NIOSH.

Personal protective equipment

Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter. Recommended Filter type: mask, comb.gas/particle filter
Hand protection		
Remarks	:	Butyl Rubber, PVC Or Neoprene.
Eye protection	:	Safety glasses
Skin and body protection	:	Wear suitable protective equipment.
Protective measures	:	Observe the usual precautions for handling chemicals.
Hygiene measures	:	Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid

Colour	:	milky white to yellowish
Odour	:	not specified
Odour Threshold	:	not determined
pH	:	3 - 5
Melting point	:	not applicable
Boiling point	:	> 100 °C
Flash point	:	> 100 °C
Evaporation rate	:	not tested.
Flammability (solid, gas)	:	not applicable
Upper explosion limit	:	not determined
Lower explosion limit	:	not determined
Vapour pressure	:	not tested.
Relative vapour density	:	not determined
Density	:	1.05 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	not tested.
Auto-ignition temperature	:	not tested.
Decomposition temperature	:	not tested.
Viscosity		
Viscosity, dynamic	:	not tested.
Viscosity, kinematic	:	not determined
Oxidizing properties	:	not tested.
Impact sensitivity	:	not determined
Sublimation point	:	not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Keep away from oxidizing agents.
Incompatible materials	:	not known
Hazardous decomposition products	:	Risk of formation of toxic pyrolysis products containing fluorine.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Eye contact
Skin contact
Ingestion
Inhalation

Acute toxicity

Product:

Acute oral toxicity	:	LD50 (rat): > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: not tested.
Acute dermal toxicity	:	Remarks: not tested.

Skin corrosion/irritation

Product:

Species: rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: By analogy with a product of similar composition

Serious eye damage/eye irritation

Product:

Species: rabbit
Result: No eye irritation
Remarks: By analogy with a product of similar composition

Respiratory or skin sensitisation

Product:

Remarks: not tested.

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : No information available.

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

IARC	Not listed
OSHA	Not listed
NTP	Not listed

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Repeated dose toxicity

Product:

Remarks: not tested.

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the labelling (see section 2).

Further information

Product:

Remarks: none

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish :

Remarks: not tested.

Toxicity to daphnia and other :

aquatic invertebrates		Remarks: not tested.
Toxicity to algae	:	Remarks: not tested.
Toxicity to bacteria	:	EC50: 1,131 mg/l Method: OECD Test Guideline 209

Persistence and degradability

Product:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge DOC decrease Result: Inherently biodegradable. Exposure time: 28 d Method: OECD Test Guideline 302B GLP: no Remarks: The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge. Test Type: aerobic Inoculum: activated sludge CO2 formation in % of theoretical value Exposure time: 28 d Method: OECD Test Guideline 302B GLP: no
Biochemical Oxygen Demand (BOD)	:	< 100 mg/g
Chemical Oxygen Demand (COD)	:	530 mg/g

Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: not tested.

Mobility in soil

No data available

Other adverse effects

Product:

Environmental fate and pathways	:	Remarks: no data available
Results of PBT and vPvB assessment	:	Remarks: no data available
Additional ecological information	:	Product contains organic halogen, may contribute to AOX value

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act	:	No -- Not as sold.
Waste Code	:	None
Waste from residues	:	Consult local, state, and federal regulations.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
IATA	not restricted
IMDG	not restricted

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

The components of this product are reported in the following inventories:

TSCA	:	On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Volatile organic compounds VOC:

Content VOC (weight-%):	**8.3%**
Method:	**EPA Method 24**

SECTION 16. OTHER INFORMATION

Further information

Avoid inhalation of vapour or mist.
A component of this product is subject to a SNUR per 40 CFR 721.10519 under TSCA §5 applicable to Clariant and customers with following restrictions:
No use of the PMN substance in consumer products with spray applications. End uses are limited as coating material in textiles and /or paper. Subject to export notification requirements of TSCA §12(b) and 40 CFR part 707 subpart D. Please refer to 40 CFR 712.10519 for details.
This product has not been evaluated for FDA regulatory requirements.
Revision Date : 00/00/0000

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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