

SAFETY DATA SHEET

DT-NNL 009



Version Revision Date:
2.6 04/02/2019

Date of last issue: 11/26/2018
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 +1 970 390 8717 info@osmshield.com
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Trade name: DT-NNL 009

Chemical family: polymer dispersion

Recommended use of the chemical and restrictions on use

Recommended use: Auxiliary for the textile industry

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 elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : polymer dispersion

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. Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g.

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wear personal protection equipment).

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| If inhaled | : If inhaled, remove to fresh air.
Get medical advice/ attention. |
| In case of skin contact | : In case of contact, immediately flush skin with plenty of water.
If skin irritation occurs: Get medical advice/ attention. |
| In case of eye contact | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| If swallowed | : If swallowed, rinse mouth with water (only if the person is conscious).
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| 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 | : Treat symptomatically. |

SECTION 5. FIREFIGHTING MEASURES

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| Suitable extinguishing media | : Water spray jet
Alcohol-resistant foam
Dry powder
Carbon dioxide (CO2) |
| 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 |
| Further information | : Cool endangered containers with water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Self-contained breathing apparatus
Full protective suit |

SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : Wear suitable protective equipment.
Ventilate the area.
Information regarding Safe handling, see chapter 7.
For personal protection see section 8.
Information regarding Waste Disposal, see chapter 13. |
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Environmental precautions	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. The product should not be allowed to enter drains, water courses or the soil.
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Handle and open container with care. Avoid inhalation, ingestion and contact with skin and eyes. Keep container tightly closed.
Conditions for safe storage	: Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated area.
Materials to avoid	: Avoid storage near incompatible agents (see section 10). Do not store or transport together with foodstuffs

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Exposure limit values**

Exposure limit values are not available.

Personal protective equipment

Respiratory protection	: Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.
	Self-contained breathing apparatus
Hand protection	
Remarks	: Chemical resistant gloves Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective measures	: Observe the usual precautions for handling chemicals. Ensure that eyewash stations and safety showers are close to the workstation location.
Hygiene measures	: Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product.

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Take off immediately all contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product.
Observe the usual precautions for handling chemicals.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: white
Odour	: characteristic
Odour Threshold	: not determined
pH	: 3 - 5, Concentration: 50 g/l (20 °C) Method: DIN EN 1262
Melting point	: approx. 0 °C
Boiling point	: approx. 100 °C of water
Flash point	: > 100 °C Method: ISO 2719 No flash point - Measure made up to the boiling point.
Evaporation rate	: not available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: not available
Lower explosion limit	: not available
Vapour pressure	: approx. 2.3 kPa of water
Relative vapour density	: not available
Relative density	: approx. 1.05
Density	: ca. 1.05 g/cm³ (20 °C) Method: DIN 51757
Solubility(ies)	
Water solubility	: miscible
Partition coefficient: n-octanol/water	: This property is not applicable for mixtures.
Auto-ignition temperature	: does not ignite
Decomposition temperature	: > 100 °C

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Viscosity	Stable up to boiling point.
Viscosity, dynamic	: ca. 10 mPa.s (23 °C) Method: ISO 6388
Viscosity, kinematic	: not available
Explosive properties	: Not explosive Method: Expert judgement
Oxidizing properties	: not oxidizing Method: Expert judgement
Impact sensitivity	: not determined
Surface tension	: not available
Molecular weight	: 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	: None known.
Incompatible materials	: not known
Hazardous decomposition products	: No hazardous decomposition products if stored and handled as prescribed

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact

Acute toxicity

Product:

Acute oral toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	: Remarks: not available
Acute dermal toxicity	: Remarks: not available

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Remarks: not tested.

Serious eye damage/eye irritation**Product:**

Result: No eye irritation

Remarks: By analogy with a product of similar composition

Respiratory or skin sensitisation**Product:**

Remarks: not available

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Remarks: not available

Carcinogenicity**Product:**

Remarks: not available

IARC

Not listed

OSHA

Not listed

NTP

Not listed

Reproductive toxicity**Product:**

Effects on fertility : Remarks: not available

Effects on foetal development

: Remarks: not available

STOT - single exposure**Product:**

Remarks: not available

STOT - repeated exposure**Product:**

Remarks: not available

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Repeated dose toxicity

Product:

Remarks: not available

Aspiration toxicity

Product:

No data available

Symptoms and effects

Product:

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

Further information

Product:

Remarks: The toxicological data given are determined by analogy

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50: > 100 mg/l
Remarks: By analogy with a product of similar composition

Toxicity to daphnia and other aquatic invertebrates :
Remarks: not available

Toxicity to algae :
Remarks: not available

Toxicity to fish (Chronic toxicity) : Remarks: not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: not available

Toxicity to bacteria : IC50: > 100 mg/l
Remarks: By analogy with a product of similar composition

Persistence and degradability

Product:

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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.
By analogy with a product of similar composition

Physico-chemical removability : Remarks: not available

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Other adverse effects

Product:

Results of PBT and vPvB assessment : Remarks: No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Additional ecological information : Product contains organic halogen, may contribute to AOX value
By analogy with a product of similar composition

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : No -- Not as sold.

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Waste Code	: None
Waste from residues	: Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities
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	: 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	: Indicates a commended PMN substance, On the inventory, or in compliance with the inventory
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Volatile organic compounds VOC:

Content VOC (weight-%): < 2.5 %

European SVHC: The product does not contain (or concentration is below 0,1%) any substance/impurity, which, according to annex XIV and XV of the REACH Regulation 1907/2006/EC, is listed as an SVHC.



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SECTION 16. OTHER INFORMATION

Further information

Heating can release hazardous gases.
Use only with adequate ventilation.
Avoid inhalation of vapour or mist.

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.

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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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