SAFETY DATA SHEET



Issue Date No data available Revision Date 01-Jun-2015 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name REFLECTION

Other means of identification

Product Code

Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Hi Gloss Floor Finish
Uses advised against No information available

Details of the supplier of the safety data sheet

Emergency telephone number

2. HAZARDS IDENTIFICATION

Label elements

Emergency Overview

Appearance Milky Physical state liquid Odor Low

<u>Hazards not otherwise classified (HNOC)</u>
Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Water	7732-18-5	<40	*
Acrylic Polymer Emulsion	75760-37-1	<40	*
Diethylene Glycol Monoethyl Ether	111-90-0	<10	*
Tributoxyethyl Phosphate	78-51-3	<5	*
Zinc Ammonium Carbonate	38714-47-5	<5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash skin with soap and water.

Inhalation Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is

having trouble breathing, give supplemental oxygen, if available. Get medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upPick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special technical protective measures are necessary.

Skin and body protectionNo special technical protective measures are necessary.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid Appearance Milky

AppearanceMilkyOdorLow

Color White Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 8.5

Melting point/freezing point

Boiling point / boiling range

No information available
No information available

Flash point

Evaporation rate

Flammability (solid, gas)

No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:

Lower flammability limit:

Vapor pressure

Vapor density

No information available
No information available
No information available
No information available

Specific Gravity 1.04

Water solubility Miscible in water

Solubility in other solvents No information available

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
No information available

Other Information

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information available

Density 8.66

Bulk density No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Strong Acids. Do not freeze.

Incompatible materials

Acids.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Inhalation No data available.

Eye contact No data available.

Skin Contact No data available.

Ingestion No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
7732-18-5			
Diethylene Glycol Monoethyl Ether	= 1920 mg/kg (Rat)	= 4200 µL/kg (Rabbit) = 6 mL/kg	> 5240 mg/m³ (Rat) 4 h
111-90-0		(Rat)	
Tributoxyethyl Phosphate	= 3000 mg/kg (Rat)	> 16 mL/kg (Rabbit)	> 6.4 mg/L (Rat) 4 h
78-51-3			

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available. Germ cell mutagenicity No information available. Carcinogenicity No information available. Reproductive toxicity No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Diethylene Glycol Monoethyl Ether	=	10000: 96 h Lepomis macrochirus	3940 - 4670: 48 h Daphnia magna
111-90-0		mg/L LC50 static 19100 - 23900: 96	mg/L EC50
		h Lepomis macrochirus mg/L LC50	_
		flow-through 11400 - 15700: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through 11600 - 16700: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through 13400: 96 h Salmo	
		gairdneri mg/L LC50 flow-through	
Tributoxyethyl Phosphate	-	10.4 - 12.0: 96 h Pimephales	-
78-51-3		promelas mg/L LC50 flow-through	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
Diethylene Glycol Monoethyl Ether 111-90-0	-0.8
Tributoxyethyl Phosphate 78-51-3	3.65 - 4.78

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Zinc Ammonium Carbonate	Toxic
38714-47-5	

Zinc Ammonium Carbonate	Toxic
38714-47-5	

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies Complies **DSL/NDSL** Complies **EINECS/ELINCS ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Diethylene Glycol Monoethyl Ether - 111-90-0	1.0
Zinc Ammonium Carbonate - 38714-47-5	1.0

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Ammonium Carbonate	-	X	-	-
38714-47-5				

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
7732-18-5			
Diethylene Glycol Monoethyl Ether	X	-	X
111-90-0			
Zinc Ammonium Carbonate	X	-	X
38714-47-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16.	വ	ГΗ	FR	IN	FΩ	RN	ΊΔΤ	'ION	
	\smile				-		-	1011	

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 1 Flammability 0 Physical hazards 0 Personal protection X

Revision Date 01-Jun-2015

Revision Note

No information available

Disclaimer

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.

End of Safety Data Sheet