Safety Data Sheet (SDS)
According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Section 1: Identification of the Substance/Mixture and the Company/Undertaking

Product Name: Water Reducilble Air Dry Enamel - Outdoor Blue Product Code: 89-8487

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Product Use: Industrial use only.

Section 2: Hazard(s) Identification

GHS Ratings:

Flammable liquid	4	Flash point >= 60°C (140°F) and <= 93°C (200°F)
Dermal Toxicity	Acute Tox. 4	Dermal>1000+<=2000mg/kg
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Mutagen	1B	Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Reproductive toxin	2	Human or animal evidence possibly with other information
Aquatic toxicity	A1	Acute toxicity <= 1.00 mg/l

GHS Hazards

H227	Combustible liquid
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H340	May cause genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P235	Keep cool
P264	Wash thoroughly after handling.

P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment, see supplemental first aid information.
P322	Specific measures (see … on this label)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P391	Collect spillage
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P370+P378	In case of fire: Use alcohol resistant foam, dry chemical, carbon dioxide (CO2), dry sand for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

Signal Word: Danger

Unnecessary exposure to any chemical should be avoided. NOTICE--Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after applicable limits . Follow respirator manufacturer's directions for respirator use.

Section 3: Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Water	7732-18-5	49.00%
2-Butoxyethanol	111-76-2	6.00%
Trizinc diphosphate	7779-90-0	6.00%
Titanium dioxide	13463-67-7	3.00%
2-Butanol	78-92-2	3.00%
Ammonium hydroxide	1336-21-6	1.00%
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	0.20%

Section 4: First Aid Measures

After Inhalation: Immediately supply fresh air. Keep patient in restful and comfortable position for breathing. If

required provide artificial respiration, although this may be dangerous. Consult doctor if symptoms persist.

After Eye Contact: Immediately rinse opened eye(s) for several minutes under running water. Use lukewarm water if possible. Remove contact lenses if worn. Get medical attention.

After Skin Contact: Remove contaminated clothing and shoes. Immediately wash with water and soap, rinse thoroughly. If skin irritation continues, consult a doctor.

After Swallowing: Immediately get medical attention. Call a poison center or physician. Rinse out mouth and then drink small amounts of water. Do not induce vomiting as this may be dangerous. Aspiration hazard if swallowed, can enter lungs and cause damage. If vomiting occurs, the head should be kept low to avoid vomit entering the lungs. Maintain an open airway.
Notes to Physician: Treat symptomatically.

Section 5: Firefighting Measures

Flash Point: 63 C (145 F)
LEL: 1.00 UEL:

Extinguishing Media:
Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide

Special Hazards Arising from the Substance of Mixture:
Formation of toxic gases is possible during heating or in case of fire. Check flammability in section 2 of this sheet.
Mixture in sealed and heated containers may cause explosion hazard.

Spray booth filters, rags, and clean-up materials may spontaneously combust if exposed to air while drying.

Hazardous Combustion Products may include the following:
Carbon oxides. Metal oxide(s). Nitrogen oxides.
Vapors are heavier than air and may spread along floors. Vapors may travel considerable distance to source of ignition and flash back.

Advice for Firefighters:
Clear fire area of unprotected personnel. Containers that are exposed to intense heat should be cooled with water. Avoid spreading burning liquid with the water used for cooling purposes. Do not enter fire area without protective gear. Fight fire from safe distance or a protected location.

Fire Equipment:
Wear self-contained respiratory protective device. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Wear protective clothing.
Keep from contacting skin or eyes.
Avoid breathing vapors, mist, or gas.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
If any equipment is necessary, ensure that it is non-sparking and electrically-protected.

Environmental precautions:
Do not allow product to reach sewage system or any water source.
In case of seepage into the ground inform responsible authorities
Prevent from spreading (e.g. by damming-in or oil barriers).
Keep contaminated washing water and dispose of appropriately

Methods and material for containment and cleaning up:
Ensure adequate ventilation
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste.
Do not flush with water or aqueous cleansing agents.
Send for recovery or disposal in suitable receptacles according to local, state and federal regulations.

Section 7: Handling and Storage

Handling:
Apply proper ventilation, possibly combined with local exhaust.
Do not eat, smoke or drink during use.
For personal protection see Section 8.
Keep away from sources of ignition.
Keep material out of reach of children.
Wash thoroughly after handling.

Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges by bonding and grounding product containers before and during material transfers. Keep respiratory protective device available.
Dispose of filters, waste, rags and clean-up materials in closed, airtight containers.

Conditions for safe storage, including any incompatibilities:
Storage:
Keep away from sources of ignition - no smoking. Store in a cool, well ventilated place. Keep in original, closed packaging. Comply with governmental regulations.
Keep container tightly closed. Store out of direct sunlight, between 40 and 90F.

Specific end use(s): For professional use only.

Section 8: Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Water 7732-18-5	Not Established	Not Established	Not Established
2-Butoxyethanol 111-76-2	50 ppm TWA; 240 mg/m3 TWA	20 ppm TWA	NIOSH: 5 ppm TWA; 24 mg/m3 TWA
Trizinc diphosphate 7779-90-0	Not Established	Not Established	Not Established
Titanium dioxide 13463-67-7	15 mg/m3 TWA (total dust)	10 mg/m3 TWA	Not Established
2-Butanol 78-92-2	150 ppm TWA; 450 mg/m3 TWA	100 ppm TWA	NIOSH: 100 ppm TWA; 305 mg/m3 TWA 150 ppm STEL; 455 mg/m3 STEL

Ammonium hydroxide 1336-21-6	TWA 25.00 ppm 18.00 mg/m3	TWA 25.00ppm STEL 35.00 ppm	Not Established
Distillates, petroleum, solvent-dewaxed heavy paraffinic 64742-65-0	Not Established	Not Established	Not Established

Ventilation:
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910 .94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equipment/General Protective and Hygienic Measures:

Respiratory Protection:
In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) airline type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

Protective Gloves:
Protective gloves are required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)

Eye Protection:
Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes. (Consult your safety equipment supplier.) Eyewash stations and safety showers should be readily available in use and handling areas.
Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

Body Protection:
Chemically resistance gloves, apron and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Contaminated Gear:
Dispose of in accordance with official regulations.

Section 9: Physical and Chemical Properties

Boiling Range 100 to 3000 °C	**Specific Gravity (SG) 1.087**
Coating VOC (as supplied) 0.84 lb/gl	**Coating VOC (EPA 1.85 calculation) lb/gl**

Section 10: Stability and Reactivity

Product Stability:
Product is stable under normal circumstances.

Incompatibilities:
Avoid contact with strong oxidizing agents.

Hazardous Decomposition:
Thermal decomposition may form toxic materials; carbon dioxide, carbon monoxide, etc. Thermal decomposition may form toxic materials; carbon dioxide, carbon monoxide, various hydrocarbons, etc.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity
Dermal Toxicity LD50: 1,749mg/kg

Component Toxicity

111-76-2	2-Butoxyethanol Oral LD50: 470 mg/kg (Rat) Dermal LD50: 99 mg/kg (Rabbit) Inhalation LC50: 450 ppm (Rat)

Routes of Entry:

No data available.

Target Organs:

Blood Eyes Kidneys Liver Central Nervous System Skin Respiratory System

Effects of Overexposure

Carcinogenicity:
The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

CAS Number	Description	% Weight	Carcinogen Rating
64742-65-0	Distillates, petroleum, solvent-dewaxed heavy paraffinic	0.2	Distillates, petroleum, solvent-dewaxed heavy paraffinic: EU REACH: Present (L)

Section 12: Ecological Information

Environmental Impact Statement/Toxicity:
Aquatic toxicity: No further relevant information available
Persistence and degradability: No further relevant information available
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Other adverse effect: No further relevant information available

Component Ecotoxicity

2-Butoxyethanol	96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 2950 mg/L 48 Hr EC50 Daphnia magna: >1000 mg/L
Trizinc diphosphate	LC50 - Oncorhynchus mykiss (rainbow trout) - 0.09 mg/l - 96.0 h
2-Butanol	96 Hr LC50 Pimephales promelas: 3380 - 3990 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 1859 - 7143 mg/L [Static]
Ammonium hydroxide	96 Hr LC50 Pimephales promelas: 8.2 mg/L 48 Hr EC50 water flea: 0.66 mg/L; 48 Hr EC50 Daphnia pulex: 0.66 mg/L
Distillates, petroleum, solvent-dewaxed heavy paraffinic	96 Hr LC50 Oncorhynchus mykiss: >5000 mg/L 48 Hr EC50 Daphnia magna: >1000 mg/L

Section 13: Disposal Considerations

Waste treatment methods:

Recommendation:
Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.

Spray booth filters, rags, and clean-up materials may spontaneously combust if exposed to air while drying. These materials should be stored in closed metal or water-filled containers.

Disposal of this product and any by-products must at all times comply with local, state and Federal regulations for hazardous wastes. All entities that store, transport or handle hazardous waste must take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals.

Contaminated Packaging:
Waste packaging should be recycled. Care should be taken when handling emptied containers that have not been cleaned. Empty containers retain some product residues. Vapor from that residue may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers.

Section 14: Transport Information

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT	Not Regulated			

Section 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Prop 65 - Chemicals Known to Cause Developmental Toxicity
- None

Prop 65 - Chemicals Known to Cause Cancer:
- None

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

TSCA (Toxic Substances Control Act)
- None

Country	Regulation	All Components Listed
USA	Inventory - United States - Section 8(b) Inventory (TSCA)	Yes
Canada	DSL (Canadian Domestic Substance List)	Yes
Europe	EINECS (European Inventory of Exisitng Commercial Chem	No

EU Risk Phrases

Safety Phrase

- None

Section 16: Other Information

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