

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: DryWired® Nanoramyk
Recommended Use: Water repellent and protectant for metal, plastic, and other hard surfaces
Supplier: DryWired®
Address: 9606 S. Santa Monica Blvd., PH
 Beverly Hills, CA 90210
Phone: 1-800-581-4528
Revised On: 05/18/18
Emergency Phone: US: 1-800-535-5053, International: 1-352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

Hazard classification: Classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Health	Environment	Physical
Serious Eye Damage/Eye Irritation Skin Corrosion/Irritation Reproductive Toxicity Specific Target Organ Toxicity, Single Exposure, Narcosis	Category 1 Category 1B Category 2 Category 3	Not applicable Flammable Category 2 Liquids Corrosive to Category 1 Metals

Label elements: Signal word: Danger



Hazards Statements:	Precautionary Statements:
H225 Highly flammable liquid and vapour. H290 Maybe corrosive to metals H314 Causes severe skin burns and eye damage H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.	P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing. Rinse skin with water/ shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. P403 + P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container according to local/regional/national/international regulations.

Hazards not otherwise classified: Repeated exposure may cause skin dryness or cracking.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Component	CAS No.	Weight %
Butyl Acetate	123-86-4	50.0-70.0%
Ethyl Acetate	141-78-6	25.0-50.0%
(3-Aminopropyl)triethoxysilane	919-30-2	5.0-10.0%
Potassium Hydroxide	1310-58-3	0.1%-1.0%

SECTION 4: FIRST AID MEASURES

Description of first aid measures:

General: Protective equipment emergency responders. Symptoms of poisoning may not appear for several hours.

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Remove/Take off immediately all contaminated clothing. In case of doubt or persistent symptoms, consult always a physician.
Inhalation: Remove person to fresh air and keep comfortable for breathing. If unconscious, place in the recovery position and seek medical advice.

Skin Contact: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Cover wounds with sterile bandage. Wash off immediately with soap and plenty of water. Call a physician immediately.

Eye Contact: Flush eyes with water as a precaution. Keep eye wide open while rinsing. If irritation persists, consult a specialist.

Eye Contact: Consult an eye specialist immediately. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: Call a poison center or a doctor if you feel unwell. Rinse mouth out with water. Drink plenty of water. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed: May cause drowsiness or dizziness. May cause severe burns. Burns to the gastric/intestinal mucosa.

Indication of any immediate medical attention and special treatment required: Treat symptomatically. In cases of irritation to the lungs, initial treatment with Dexametason metered aerosol.

-----Bring this SDS when seeking medical attention.-----

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

Special hazards arising from the substance or mixture: Highly flammable liquid and vapour. Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Explosive vapour/air mixtures may be formed. Ammonia.

Advice for firefighters: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. In case of fire and/or explosion do not breathe fumes..

Further information: Use a water spray to cool fully closed containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. FPA Flammable and Combustible Liquids Classification: Flammable Liquid Class IB.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing mist, spray, vapours. Avoid contact with skin and eyes.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Contain spillage. Collect with noncombustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

Reference to other sections: For personal protection see section 8. For disposal see section 13.

SECTION 7: HANDLINGS AND STORAGE

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing mist, spray, vapours. Avoid contact with skin and eyes. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities: No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Incompatible with strong acids, strong alkalis, strong oxidizing agent. Store below 25°C.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control Parameters: Components with workplace control parameters:

Component	CAS No.	Value	Control Parameters	Basis
n-butyl acetate	123-86-4	TWA	150 ppm, 724 mg/m ³	UK. EH40. HSE. EU SCOEL Recommendations
		STEL	200 ppm, 966 mg/m ³	UK. EH40. HSE. EU SCOEL Recommendations
ethyl acetate	141-78-6	TWA	200 ppm, 734 mg/m ³	UK. EH40. HSE. EU SCOEL Recommendations
		STEL	400 ppm, 1468 mg/m ³	UK. EH40. HSE. EU SCOEL Recommendations
potassium hydroxide	1310-58-3	STEL	2 mg/m ³	UK. EH40. HSE. EU SCOEL Recommendations

Biological occupational exposure limits:

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ethyl acetate (141-78-6)		
DNEL/DMEL (workers)	Acute – systemic effects, inhalation	1468 mg/m ³
	Acute – local effects, inhalation	1468 mg/m ³
	Long-term – systemic effects, dermal	63 mg/kg bodyweight/day
	Long-term – systemic effects, inhalation	734 mg/m ³
	Long-term – local effects, inhalation	734 mg/m ³
DNEL/DMEL (general population)	Acute – systemic effects, inhalation	734 mg/m ³
	Acute – local effects, inhalation	734 mg/m ³
	Long-term – systemic effects, oral	4.5 mg/kg bodyweight/day
	Long-term – systemic effects, inhalation	367 mg/m ³
	Long-term – systemic effects, dermal	37 mg/kg bodyweight/day
	Long-term – local effects, inhalation	367 mg/m ³
PNEC (water)	PNEC aqua (fresh water)	0.24 mg/l
	PNEC aqua (marine water)	0.024 mg/l
PNEC (sediment)	PNEC aqua (fresh water)	1.15 mg/kg dwt
	PNEC aqua (marine water)	0.115 mg/kg dwt
PNEC (soil)	PNEC soil	0.148 mg/kg dwt
PNEC (oral)	PNEC oral (secondary poisoning)	0.2 g/kg
PNEC (STP)	PNEC sewage treatment plant	650 mg/l

Appropriate engineering controls:

Ensure good ventilation of the work station. Do not eat, drink, or smoke in areas where product is used. Do not breathe vapour/aerosol.

Personal protective equipment: Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Wear fire/flame resistant/retardant clothing.

Skin protection: Handle with chemically resistant protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: butyl-rubber, Minimum layer thickness: 0.3 mm, Break through time: 480 min

Splash contact: Material: Nitrile rubber, Minimum layer thickness: 0.4 mm, Break through time: 31 min

Body Protection: Complete suit to protect against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to concentration/amount of the dangerous substance at the workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid	Odour:	Characteristic.
Odour Threshold:	No data available.	pH:	Not applicable.
Melting Point/Freezing Point:	No data available.	Boiling Point:	No data available.
Flash Point:	No data available.	Evaporation Rate:	No data available.
Flammability (solid, gas):	May form flammable/explosive vapor-air mixture.	Upper/Lower Flammability of Explosive Limits:	No data available.
Vapour Pressure:	No data available.	Vapour Density:	No data available.
Relative Density:	0.93 g/cm ³ @ 20°C	Solubility:	No data available.
Partition Coefficient: n-octanol and water:	No data available.	Auto-Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.	Viscosity:	No data available.

Other Information: No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Highly flammable liquid and vapour.



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Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: Not known.

Conditions to avoid: Heat, flames, and sparks. Ignition sources. Hot surfaces. High temperatures and direct sunlight.

Incompatible materials: No additional information available.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Acute toxicity (oral): Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal): Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation): Not classified (Based on available data, the classification criteria are not met)

ATE CLP (oral): 5001 mg/kg

Component	CAS No.	Value	Level
ethyl acetate	141-78-6	LD50 oral rat	> 2000 mg/kg (eq. to (OECD 401 method))
		LD50 dermal rat	> 20000 mg/kg
potassium hydroxide	1310-58-3	LD50 oral rat	333 mg/kg (OECD 425 method)
3-aminopropyltriethoxysilane	919-30-2	LD50 oral rat	1.57 – 2.83 ml/kg
		LD50 dermal rabbit	4.29 ml/kg (EPA OTS 798.1100)
		LC50 inhalation rat	> 5 ppm (6h; (OECD 403 method))

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure: May cause drowsiness or dizziness.

STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard: Not classified.

Further product information: Solvents may degrease the skin.

SECTION 12: ECOLOGICAL & ECOTOXICOLOGICAL INFORMATION

Toxicity

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

Acute aquatic toxicity: Not classified.

Chronic aquatic toxicity: Not classified.

Component	CAS No.	Value	Level
ethyl acetate	141-78-6	LC50 fish 1	220 mg/l (96 h; Pimephales promelas; US EPA method E03-05)
		NOEC chronic crustacea	2.4 mg/l (21 d; Daphnia magna; (OECD 211 method))
		NOEC chronic algae	> 100 mg/l (72 h; Desmodesmus subspicatus; (OECD 201 method))
potassium hydroxide	1310-58-3	LC50 fish 1	165 mg/l (24h)
		EC50 Daphnia 1	(EC100 > 10 mg/l; Dreissena polymorpha)
		EC50, microorganisms, acute	mg/l
3-aminopropyltriethoxysilane	919-30-2	LC50 fish 1	> 934 mg/l (96 h; Brachydanio rerio (zebrafish); (OECD 203 method))
		EC50 Daphnia 1	331 mg/l EC50 48h – Daphnia magna [mg/l]; (OECD 202 method)
		EC50 72h algae (1)	> 1000 mg/l (72 h; Desmodesmus subspicatus; EU method C.3)

Persistence and degradability

Ethyl acetate: Readily biodegradable

Potassium hydroxide: No additional information available

3-aminopropyltriethoxysilane: 67% (28d)

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Bioaccumulative potential

N-butyl acetate: Log Kow 1.8

Potassium hydroxide: No additional information available.

Mobility in soil

Potassium hydroxide: No additional information available.

Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

Other adverse effects

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of as unused product according to official regulations.

Uncleaned Packaging: Dispose of as unused product according to official regulations. Flammable vapours may accumulate in the container.

SECTION 14: TRANSPORT INFORMATION

ADR: UN number: 2924 Class: 3 Packing group: II UN Proper shipping name: Flammable liquid, corrosive, n.o.s. (n- butyl acetate ; 3-aminopropyltriethoxysilane)	IMDG: UN number: 2924 Class: 3 Packing group: II UN Proper shipping name: Flammable liquid, corrosive, n.o.s. (n- butyl acetate ; 3-aminopropyltriethoxysilane)	IATA: UN number: 2924 Class: 3 Packing group: II UN Proper shipping name: Flammable liquid, corrosive, n.o.s. (n- butyl acetate ; 3-aminopropyltriethoxysilane)
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Special precautions for user:

Transport by sea	Special provisions (IMDG)	274
	Limited quantities (IMDG)	1 L
	Excepted quantities (IMDG)	E2
	EmS-No. (Fire)	F-E
	EmS-No. (Spillage)	S-C
	Stowage and handling (IMDG)	SW2
Air transport	PCA excepted quantities (IATA)	E2
	PCA limited quantities (IATA)	Y340
	PCA limited quantity max net quantity (IATA)	0.5 L
	PCA packing instructions (IATA)	352
	PCA max net quantity (IATA)	1 L
	CAO max net quantity (IATA)	5 L
	Special provisions	A3

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. DryWired® transportation classifications are based on product formulation, packaging, DryWired® policies and DryWired® understanding of applicable current regulations. DryWired® does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original DryWired® package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

SECTION 15: REGULATORY INFORMATION

International Regulations: Contact DryWired® for more information. Restrictions applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006. Contains no substance on the REACH candidate list. Contains no REACH Annex XIV substances.

US Federal Regulations: Contact DryWired® for more information.

SARA Section 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA Section 313:

State Regulations: Contact DryWired® for more information.

Massachusetts Right To Know Components: Ethyl acetate 141-78-6, 1-5%; Butyl acetate 123-86-4, Revision Date:



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04/24/1993

Pennsylvania Right To Know Components: Ethyl acetate 141-78-6, 1-5%: Butyl acetate 123-86-4, Revision Date: 04/24/1993

New Jersey Right To Know Components: Ethyl acetate 141-78-6, 1-5%: Butyl acetate 123-86-4, Revision Date: 04/24/1993

California Proposition 65 Components:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

WARNING! This product contains a chemical known to the State of California to cause cancer

Chemical Inventories: The components of this product are in compliance with the chemical notification requirements of TSCA.

SECTION 16: ADDITIONAL INFORMATION

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.

DRYWIRED® MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.

User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application.

Given the variety of factors that can affect the use and application of a DryWired® product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the DryWired® product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.