

## SAFETY DATA SHEET

## Dryrod

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Trade name

Dryrod

▼Unique formula identifier (UFI)

NX20-URY2-3018-X9E1

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Damp Proofing Article

Uses advised against

None known.

## 1.3. Details of the supplier of the safety data sheet

Company and address

**Safeguard Europe Ltd.**

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Revision

20/02/2024

SDS Version

3.0

Date of previous version

07/12/2023 (1.0)

## 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

## 2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Causes skin irritation. (H315)

Precautionary statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

#### Prevention

Wash hands and exposed skin thoroughly after handling. (P264)

Wear eye protection/protective gloves/protective clothing. (P280)

#### Response

-

#### Storage

-

#### Disposal

-

#### Hazardous substances

None known.

#### ▼Additional labelling

UFI: NX20-URY2-3018-X9E1

### 2.3. Other hazards

#### Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Triethoxyoctylsilane	CAS No.: 2943-75-1 EC No.: 220-941-2 UK-REACH: Index No.:	40-60%	Skin Irrit. 2, H315	
Triethoxypropylsilane	CAS No.: 2550-02-9 EC No.: 219-842-7 UK-REACH: Index No.:	10-15%	Flam. Liq. 3, H226 Skin Irrit. 2, H315	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

### Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

### Burns

Not applicable.

#### 4.2. Most important symptoms and effects, both acute and delayed

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

### 6.3. ▼Methods and material for containment and cleaning up

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Recommended storage material**

Keep only in original packaging.

**Storage temperature**

Dry, cool and well ventilated

**Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

##### Triethoxyoctylsilane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	1.25 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2.5 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.3 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	17.6 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	1.25 mg/kg bw/day

##### Triethoxypropylsilane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	9.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	19 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	33 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	135 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	9.4 mg/kg bw/day

#### PNEC

##### Triethoxyoctylsilane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater sediment		1.9-19 mg/kg
Marine water sediment		190-1900 µg/kg
Predators		56 mg/kg
Soil		230-4470 µg/kg

##### Triethoxypropylsilane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		2 mg/L
Freshwater sediment		96 mg/kg
Intermittent release (freshwater)		2.12 mg/L
Marine water		200 µg/L
Marine water sediment		9.6 mg/kg
Sewage treatment plant		10 mg/L
Soil		18.02 mg/kg

### 8.2. ▼Exposure controls

Apply general control to prevent unnecessary exposure

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

#### Hygiene measures

Take off contaminated clothing and wash it before reuse.

#### Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
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Respiratory protection is not needed in the event of adequate ventilation.

Skin protection

Recommended	Type/Category	Standards
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Dedicated work clothing should be worn.



▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
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Butyl	0,3	> 120	EN374-2, EN374-3, EN388
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Polyvinyl alcohol (PVA)	-	> 120	EN374-2, EN374-3, EN388
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Vinyl/PVC	-	> 120	EN374-3, EN388, EN511
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Latex	0,75	> 120	EN374-2, EN374-3, EN388
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Nitrile	0,4	> 120	EN374-2, EN374-3, EN388
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Eye protection

Type	Standards
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Safety glasses with side shields.	EN166
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid

Colour

White

Odour / Odour threshold

Characteristic

pH

Testing not relevant or not possible due to the nature of the product.

Density (g/cm<sup>3</sup>)

Testing not relevant or not possible due to the nature of the product.

Kinematic viscosity

Does not apply to solids.

#### Particle characteristics

Testing not relevant or not possible due to the nature of the product.

#### Phase changes

##### Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

##### Softening point/range (waxes and pastes) (°C)

Does not apply to solids.

##### ▼Boiling point (°C)

##### Vapour pressure

Testing not relevant or not possible due to the nature of the product.

##### ▼Relative vapour density

##### Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

#### Data on fire and explosion hazards

##### Flash point (°C)

Does not apply to solids.

##### Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

##### Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

##### Lower and upper explosion limit (% v/v)

Does not apply to solids.

#### Solubility

##### Solubility in water

Testing not relevant or not possible due to the nature of the product.

##### n-octanol/water coefficient (LogKow)

Testing not relevant or not possible due to the nature of the product.

##### Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

#### 9.2. Other information

##### Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

##### Other physical and chemical parameters

No data available.

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

##### Acute toxicity

Product/substance	Triethoxyoctylsilane
Test method:	OECD 401
Species:	Rat, male/female
Route of exposure:	Oral
Test:	LD50

Result: 5110 mg/kg

Product/substance: Triethoxyoctylsilane  
 Test method: OECD 402  
 Species: Rabbit, male  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 6730 mg/kg

Product/substance: Triethoxyoctylsilane  
 Test method: OECD 402  
 Species: Rabbit, female  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 8000 mg/kg

Product/substance: Triethoxyoctylsilane  
 Test method: OECD 403  
 Species: Rat, male/female  
 Route of exposure: Inhalation  
 Test: LC50 (4 hours)  
 Result: >22 ppm

Product/substance: Triethoxypropylsilane  
 Test method: OECD 401  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: >5110 mg/kg

Product/substance: Triethoxypropylsilane  
 Test method: OECD 403  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50 (4 hours)  
 Result: >27.892 mg/L

#### ▼ Skin corrosion/irritation

Product/substance: Triethoxypropylsilane  
 Test method: OECD 404  
 Species: Rabbit  
 Result: Adverse effect observed (Irritating)

Causes skin irritation.

#### ▼ Serious eye damage/irritation

Product/substance: Triethoxypropylsilane  
 Test method: OECD 405  
 Species: Rabbit  
 Result: No adverse effect observed (Not irritating)

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### ▼ Skin sensitisation

Product/substance: Triethoxypropylsilane  
 Test method: OECD 406  
 Species: Guinea pig  
 Result: No adverse effect observed (not sensitising)

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Product/substance: Triethoxypropylsilane  
 Test method: OECD 414  
 Species: Rat  
 Test: NOAEL

Result: >940 mg/kg

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Product/substance: Triethoxypropylsilane  
 Test method: OECD 407  
 Species: Rat  
 Route of exposure: Oral  
 Duration: 28 days  
 Test: NOAEL  
 Result: 940 mg/kg

Product/substance: Triethoxypropylsilane  
 Test method: OECD 413  
 Species: Rat  
 Route of exposure: Inhalation  
 Duration: 90 days  
 Test: NOAEC  
 Result: 2388 mg/m<sup>3</sup>

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

##### Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

##### Other information

None known.

## SECTION 12: Ecological information

#### 12.1. Toxicity

Product/substance: Triethoxyoctylsilane  
 Test method: OECD 203  
 Species: Fish, *Oncorhynchus mykiss*  
 Duration: 96 hours  
 Test: LC50  
 Result: >0.055 mg/L

Product/substance: Triethoxyoctylsilane  
 Test method: OECD 202  
 Species: *Daphnia*, *Daphnia magna*  
 Duration: 48 hours  
 Test: EC50  
 Result: >0.049 mg/L

Product/substance: Triethoxyoctylsilane  
 Test method: OECD 201  
 Species: Algae, *Pseudokirchneriella subcapitata*  
 Duration: 72 hours  
 Test: ErC50  
 Result: >0.13 mg/L

Product/substance: Triethoxyoctylsilane  
 Test method: OECD 201  
 Species: Algae, *Pseudokirchneriella subcapitata*  
 Duration: 72 hours  
 Test: NOEC  
 Result: >0.13 mg/L

Product/substance: Triethoxyoctylsilane

Test method: OECD 209  
 Compartment: Activated Sludge Plant  
 Duration: 3 hours  
 Test: EC50  
 Result: >1000 mg/L

Product/substance Triethoxyoctylsilane  
 Species: Fish, Pimephales promelas  
 Duration: 32 days  
 Test: NOEC  
 Result: >0.036 mg/L

Product/substance Triethoxyoctylsilane  
 Species: Daphnia, Daphnia magna  
 Duration: 21 days  
 Test: NOEC  
 Result: >=0.199 mg/L

Product/substance Triethoxypropylsilane  
 Test method: OECD 203  
 Species: Fish, Brachydanio rerio  
 Duration: 96 hours  
 Test: LC50  
 Result: 80 mg/L

Product/substance Triethoxypropylsilane  
 Test method: OECD 201  
 Species: Algae, Desmodesmus subspicatus  
 Duration: 72 hours  
 Test: EC50  
 Result: >819 mg/L

Product/substance Triethoxypropylsilane  
 Test method: OECD 209  
 Species: Bacteria  
 Duration: 3 hours  
 Test: EC50  
 Result: >100 mg/L

Product/substance Triethoxypropylsilane  
 Test method: OECD 202  
 Species: Daphnia, Daphnia magna  
 Duration: 21 days  
 Test: NOEC  
 Result: >100 mg/L

#### 12.2. ▼Persistence and degradability

Product/substance Triethoxyoctylsilane  
 Result: 31.5%  
 Conclusion: -  
 Test: OECD 301 D

Product/substance Triethoxypropylsilane  
 Result: 54%  
 Conclusion: -  
 Test: OECD 301 A

#### 12.3. ▼Bioaccumulative potential

Based on available data, the classification criteria are not met.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

None known.

## SECTION 13: Disposal considerations

### Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)

HP 4 - Irritant (skin irritation and eye damage)

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code

08 04 09\* Waste adhesives and sealants containing organic solvents or other dangerous substances

### Specific labelling

### Contaminated packing

#### EWC code

15 01 10\* Packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

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

#### Restrictions for application

No special.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

#### ▼UK-REACH, Annex XVII

Triethoxypropylsilane is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

#### Additional information

Not applicable.

#### Sources

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.

H315, Causes skin irritation.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### ▼The safety data sheet is validated by

1011

### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en