

SD4028-R01

### 1. Identification

#### **GHS PRODUCT IDENTIFIER**

Product name: DEA Wash (20% DEA in Acetonitrile)

### OTHER MEANS OF IDENTIFICATION

Item number: 4028

Catalogue number(s): 4028-YZZZ, where Y=letters A-Z, ZZZ=numbers 000-999

Brand: Not applicable.

#### RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

For laboratory and manufacturing use. Not for drug, household or other use.

#### SUPPLIER'S DETAILS

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#### **EMERGENCY PHONE NUMBER**

+44 (0) 1698 849911 (Monday to Friday 8 am to 6 pm)

#### 2. Hazard identification

#### **GHS CLASSIFICATION OF THE SUBSTANCE/MIXTURE**

Classification according to Regulation (EC) No. 1272/2008

Flammable Liquid: Category 2
Acute Toxicity, Oral: Category 4
Acute Toxicity, Inhalation: Category 4
Acute Toxicity, Dermal Category 3
Skin corrosion Category 1A
Serious Eye Damage: Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC

F Highly Flammable R11

Xn Harmful R20/21/22



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Xi Irritant R37
C Corrosive R35

#### **GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS**

Pictogram



Signal word: Danger

**Hazard Statements** 

H225 Highly flammable liquid and vapour.

H302 + H312 + H332 Harmful in contact with skin, if swallowed or inhaled.

H314 Causes severe skin burns and eye damage..

H335 + H336 May cause skin irritation. May cause drowsiness or dizziness.

**Precautionary Statements** 

<u>Prevention</u>

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280 Wear protective gloves/eye protection/face protection.

Response

P312 Call a doctor if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): 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.

**OTHER HAZARDS** 

None.

# 3. Composition/information on ingredients

#### **MIXTURES**

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Classification	Concentration	
Acetonitrile				
CAS No	75-05-8	Flammable Liquid 2; Acute Tox. 4; Eye	75-100%	
EC No	200-835-2	Irritation 2; H225, H302+H312+H332, H319,		
Index No	608-001-00-3			
Registration No	01-2119471307-38-XXXX	11319,		
Diethylamine		,		
CAS No	109-89-7	Flammable Liquid 2; Acute Tox. 4; Acute	10-25%	
EC No	203-716-3	Tox. 3; Skin Corr. 1A; H225, H302 +		



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Index No	612-003-00-X	H312 + H332, H311, H314	

#### Hazardous ingredients according to Directive 1999/45/EC

Component		Classification	Concentration
Acetonitrile			
CAS No	75-05-8		75-100%
EC No	200-835-2	F, Xn, R11 – R20/21/22 – R36	
Index No	608-001-00-3	F, All, KTT - K20/21/22 - K30	
Registration No	01-2119471307-38-XXXX		
Diethylamine			
CAS No	109-89-7		
EC No	203-716-3	F, C, R11 – R20/21/22 – R35	10-25%
Index No	612-003-00-X		

#### 4. First aid measures

#### **DESCRIPTION OF NECESSARY MEASURES**

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Remove any contaminated clothing. Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes copiously with water for at least 15 minutes. Use a sterile eye wash if available.

### If swallowed

Do NOT induce vomiting. Keep person calm and immobile. Rinse mouth with water if conscious. Never give anything by mouth to an unconscious person.

#### MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. See section 11.

#### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

No data available.



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### 5. Fire-fighting measures

#### SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# SPECIFIC HAZARDS ARISING FROM THE CHEMICAL (E.G. NATURE OF ANY HAZARDOUS COMBUSTION PRODUCTS)

Carbon oxides, nitrogen oxides (NOx)

Flash back possible over considerable distance. Container explosion may occur under fire conditions.

#### SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Wear mask and protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus if necessary.

#### **FURTHER INFORMATIONS**

Use water spray to cool unopened containers.

#### 6. Accidental release measures

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear protective clothing, respirator, chemical safety goggles, rubber gloves and rubber boots. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Be aware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

#### **ENVIRONMENTAL PRECAUTIONS**

Prevent further leakage or spillage, if safe to do so. Prevent product from entering drains. Avoid discharge into environment.

#### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain spills using absorbent barriers where available. Clean the contaminated area thoroughly with water taking care to avoid breathing fumes. Dispose of all cleaning materials with care (see section 13), where possible containing in sealed containers for appropriate disposal.

### 7. Handling and storage

#### PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Do not eat, drink or smoke when using this product.



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Keep away from sources of ignition. Take measures to prevent build-up of electrostatic charge.

#### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Containers should be kept sealed and safely stored when not in use. Store in a cool, dry, well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store under inert gas.

## 8. Exposure controls/personal protection

#### CONTROL PARAMETERS (OCCUPATIONAL EXPOSURE LIMIT VALUES OR BIOLOGICAL LIMIT VALUES)

Component	CAS No	Value	Control Parameters	Basis
Acetonitrile	75-05-8	TWA	40 ppm 70 mg/m <sup>3</sup>	Europe – indicative occupational exposure limit values
	Remarks	Identifies the possibility of significant uptake through the skin. Indicative.		
		STEL	60 ppm 102 mg/m <sup>3</sup>	UK – EH40 WEL – Workplace Exposure Limits
		TWA	40 ppm 68 mg/m <sup>3</sup>	UK – EH40 WEL – Workplace Exposure Limits
Diethylamine	109-89-7	TWA	5 ppm 15 mg/m <sup>3</sup>	Europe – indicative occupational exposure limit values
	Remarks	Indicative		
		STEL	10 ppm 30 mg/m <sup>3</sup>	Europe – indicative occupational exposure limit values
		Indicative		
		TWA	5 ppm 15 mg/m <sup>3</sup>	UK – EH40 WEL – Workplace Exposure Limits
		TWA	10 ppm 30 mg/m <sup>3</sup>	UK – EH40 WEL – Workplace Exposure Limits

#### **APPROPRIATE ENGINEERING CONTROLS**

General good industrial laboratory hygiene and safety practice. Use product within air-extracted fume hood where possible. Wash hands before breaks and at the end of the workday.

#### INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

#### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



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#### Skin protection

Handle with 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Splash contact - 0.7mm fluorinated rubber

Breakthrough time: 159 min

#### **Body Protection**

Complete suit protecting against chemicals, flame-retardant antistatic protective clothing. The type of protective equipment must be selected according to the quantity and concentration of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as a back-up 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).

### 9. Physical and chemical properties

Appearance (physical state, colour etc.):

Odour:

No data available

Odour threshold:

PH:

No data available

Melting point/freezing point:

No data available

Thitial boiling point and boiling range:

56°C at 1,013 hPa

Flash point: -20°C

Evaporation rate: No data available Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: Upper explosion limit: 16% (V)

Lower explosion limit: 1.7% (V)

Vapor pressure: 260 hPa at 20°C

Vapor density: No data available

Relative density: 0.76576 g/cm3 at 20°C

Water Solubility: Fully miscible
Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: 310°C

Decomposition temperature:

Viscosity:

No data available

No data available

Empirical formula:

Not applicable.

Molecular weight (g/mol):

Not applicable.



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# 10. Stability and reactivity

#### **REACTIVITY**

No data available.

#### **CHEMICAL STABILITY**

Stable under recommended storage conditions.

#### **POSSIBILITY OF HAZARDOUS REACTIONS**

No data available.

#### CONDITIONS TO AVOID (E.G. STATIC DISCHARGE, SHOCK OR VIBRATION)

Heat, flames and sparks. Extremes of temperature and direct sunlight.

#### **INCOMPATIBLE MATERIALS**

Oxidising agents, reducing agents, bases, Alkali metals, acids.

#### **HAZARDOUS DECOMPOSITION PRODUCTS**

Other decomposition products - no data available.

In the event of fire: see section 5.

## 11. Toxicological information

#### **TOXIC EFFECTS**

Acute toxicity:

Component	CAS No	Value	Control Parameters	Basis
Acetonitrile	75-05-8	Oral LD50	2730 mg/Kg	Rat
		Dermal LD50	1250 mg/Kg	Rabbit
Diethylamine	109-89-7	Oral LD50	540 mg/Kg	Rat
		Dermal LD50	820 mg/Kg	Rabbit
		Inhalative	4000 mg/L	Rat

Skin corrosion/irritation: Strong caustic effect on skin and mucous membranes.

Serious eye damage/irritation: Strong caustic effect.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: Mouse. Lymphocyte. Result negative

Carcinogenicity: IARC – no component of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.



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Reproductive toxicity: No data available STOT-single exposure: No data available STOT-repeated exposure: No data available No data available Aspiration hazard:

#### **ADDITIONAL INFORMATION**

RTECS: HZ8750000.

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin; burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Lachrymation...

## 12. Ecological information

#### **TOXICITY**

To fish: LC50 - Oryzias latipes - 27 mg/L - 96 h (OECD Test Guideline 203).

To daphnia and other aquatic invertebrates semi-static test EC50 – Ceriodaphnia dubia (water flea) – 4.6 mg/L – 48 h

To algae

static test EC50 - Pseudokirchneriella subcapitata (green algae) - 54 mg/L

- 72 h (OCED Test Guideline 201)

To bacteria LC50 - Pseudomonas putida - 47 mg/L - 17 h

#### PERSISTENCE AND DEGRADABILITY

Biodegradability aerobic - exposure time 28 d. Result: 68 - 70% - readily biodegradable

(OECD Test Guideline 301C)

#### **BIOACCUMULATIVE POTENTIAL**

No data available.

#### **MOBILITY IN THE SOIL**

No data available.

#### **OTHER ADVERSE EFFECTS**

No data available.



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## 13. Disposal Considerations

#### **DISPOSAL METHODS**

For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in section 8 of the SDS. Dispose by incineration at high temperature in an approved incinerator fitted with appropriate environmental protection equipment taking extra care in igniting, as this material is highly flammable. Contaminated packaging should be treated as product. Dispose of in accordance with all applicable Local, National, State and Federal regulations. Labels should not be removed from containers until they have been thoroughly cleaned in an appropriate manner. Containers should not be treated as domestic waste and disposed of appropriately. Always use an approved disposal company. Do not dispose to drains.

# 14. Transport information

**UN** number

ADR/RID: 2924 IMDG: 2924 IATA: 2924

**UN proper shipping name** 

ADR/RID: ACETRONITRILE, DIETHYLAMINE SOLUTION IMDG: ACETRONITRILE, DIETHYLAMINE SOLUTION

IATA: Acetonitrile, diethylamine SOLUTION

Transport hazard class(es)

ADR/RID: 3 (8) IMDG: 3 (8) IATA: 3 (8)

**Packing group** 

ADR/RID: II IMDG: II IATA: II

**Environmental hazards** 

IMDG Marine Pollutant: No ADR/RID: No ADN: No IATA: No

Special precautions for the user

No data available.

### 15. Regulatory information

This safety datasheet complies with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Fourth revised edition, 2011.

No further safety, health and environmental regulations specific for the product in question are available.

#### 16. Other information

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Approved: January 2016

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