

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : D-Scale  
UFI : 85KC-QTRJ-230M-SS21  
Product code : 1352000  
Product group : Cleaning product.

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use

##### 1.2.2. Uses advised against

No additional information available

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

DRD bv  
Wayenborgstraat 16  
2800 Mechelen  
T +32 16 53 07 96  
[info@drd.be](mailto:info@drd.be) - [www.drd.be](http://www.drd.be)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1 H290  
Acute toxicity (inhalation:dust,mist) Category 4 H332  
Skin corrosion/irritation, Category 1, Sub-Category 1A H314  
Full text of H-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



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Signal word (CLP)	: Danger
Contains	: Nitric acid
Hazard statements (CLP)	: H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage. H332 - Harmful if inhaled.
Precautionary statements (CLP)	: P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH071 - Corrosive to the respiratory tract.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Citric Acid (5949-29-1)	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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitric acid	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-004-00-1 REACH-no: 01-2119487297-23	15 – 30	Ox. Liq. 2, H272 Met. Corr. 1, H290 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318
Citric Acid	CAS-No.: 5949-29-1 EC-No.: 201-069-1 REACH-no: 01-2119457026-42	5 – 15	Eye Irrit. 2, H319

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Nitric acid	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-004-00-1 REACH-no: 01-2119487297-23	(70 $\leq$ C < 99) Ox. Liq. 3, H272 (99 $\leq$ C $\leq$ 100) Ox. Liq. 2, H272

Full text of H-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Take to hospital.
First-aid measures after skin contact	: Take off contaminated clothing. Rinse skin with water/shower. Transport to hospital immediately.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse with plenty of water. Get immediate medical advice and attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. Transport to hospital immediately.

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

Symptoms/effects after inhalation	: Unconsciousness. Dizziness. Headache. Nausea. Drowsiness.
Symptoms/effects after skin contact	: Pungent. Severe burns. Redness. Pain.
Symptoms/effects after eye contact	: Pungent. Pain. Redness. Blurred vision.
Symptoms/effects after ingestion	: Caustic, lack of breath, vomiting, blisters on lips and tongue, burning pain in mouth and throat, gullet and stomach.

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

None.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray, powder, foam, CO2.
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#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: None known.
Explosion hazard	: None known.

#### 5.3. Advice for firefighters

Precautionary measures fire	: No special precautions required.
Firefighting instructions	: No specific firefighting instructions required.
Protection during firefighting	: No specific measures are necessary.
Other information	: No specific firefighting instructions required.

### SECTION 6: Accidental release measures

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

General measures	: Do not touch spilled material. Remove contaminated clothing and shoes. Do not breathe vapour.
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##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

Other information	: Absorb the product onto porous material.
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#### 6.4. Reference to other sections

Reference to other sections (8, 13).

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid spillage. Handle carefully.

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

Storage conditions : Keep container tightly closed and in well ventilated place. Keep out of frost.  
Special rules on packaging : Do not use metal containers.  
Packaging materials : Plastic.

#### 7.3. Specific end use(s)

Cleaning product.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

D-Scale	
Belgium - Occupational Exposure Limits	
OEL TWA	Here follows a summary list of the hazardous components mentioned in paragraph 3, of which the TLV value is known: 5.3 mg/m <sup>3</sup> Nitric acid

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

The level of protection and types of measures depend on workplace conditions. Adequate ventilation must be provided so that exposure limits are not exceeded. For more information, see section 7.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

###### Personal protective equipment symbol(s):



###### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses. Face-shield

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### 8.2.2.2. Skin protection

#### Skin and body protection:

Impermeable clothing

#### Hand protection:

Nitrile rubber gloves. Breakthrough time: > 480 Min, (EN 374). Layer thickness : 0,35 mm. Always wash hands after handling the product

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Ensure adequate air ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Universel mask (ABEK)

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Comply with relevant environmental regulations limiting discharges to air, water and soil. Protect the environment by applying proper control measures to prevent or reduce releases. For more information, see sections 6 and 13.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: 0 °C
Freezing point	: Not available
Boiling point	: 100 – 120 °C
Flammability	: Not applicable.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: /.
Auto-ignition temperature	: /
Decomposition temperature	: No data available.
pH	: 0.3 @ 20°C
pH solution	: /.
Viscosity, kinematic	: 1 mm <sup>2</sup> /s @ 20°C.
Viscosity, dynamic	: 1 mPa.s @ 20°C.
Solubility	: Completely soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 2332 Pa @ 20°C.
Vapour pressure at 50°C	: Not available
Density	: 1.1214 kg/l @ 20°C.
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable.
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	: 0.3
VOC content	: 0 %

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

#### 10.2. Chemical stability

Extremely high or low temperatures.

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

#### 10.5. Incompatible materials

Keep away from (strong) acids.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Harmful if inhaled.

D-Scale	
ATE CLP (oral)	> 2000 mg/kg
ATE CLP (dermal)	> 2000 mg/kg

Citric Acid (5949-29-1)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 50 mg/l/4h

Nitric acid (7697-37-2)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg
LC50 Inhalation - Rat (Vapours)	2.65 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.  
pH: 0.3 @ 20°C

Citric Acid (5949-29-1)	
pH	2.2 (10 gr/L) @ 20°C.

Serious eye damage/irritation : Assumed to cause serious eye damage  
pH: 0.3 @ 20°C

Citric Acid (5949-29-1)	
pH	2.2 (10 gr/L) @ 20°C.

Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified

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Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	1 mm <sup>2</sup> /s @ 20°C.
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### Citric Acid (5949-29-1)

Viscosity, kinematic	Not applicable.
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### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: No data available.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### Citric Acid (5949-29-1)

LC50 - Fish [1]	440 – 760 mg/l (48h)
LC50 - Other aquatic organisms [1]	1535 mg/l EC50 24h - Daphnia magna [mg/l]
EC50 - Crustacea [1]	1535 mg/l (24h)

### 12.2. Persistence and degradability

#### D-Scale

Persistence and degradability	No data available.
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### Citric Acid (5949-29-1)

Biodegradation	97 % (28d)
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### 12.3. Bioaccumulative potential

#### D-Scale

Bioaccumulative potential	No data available.
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### Citric Acid (5949-29-1)

Bioconcentration factor (BCF REACH)	Not applicable.
Partition coefficient n-octanol/water (Log Pow)	-1.72

### 12.4. Mobility in soil

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Mobility in soil	WGK 1
Ecology - soil	Completely soluble in water.

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### Citric Acid (5949-29-1)

Ecology - soil

No data available.

### 12.5. Results of PBT and vPvB assessment

#### Component

Citric Acid (5949-29-1)

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

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste) : Comply with local regulations for disposal.  
Waste treatment methods : In case the undiluted product is discharged accidentally, neutralize to pH 7.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

## SECTION 14: Transport information

In accordance with ADR

### 14.1. UN number or ID number

UN-No. (ADR) : UN 3264

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Corrosive liquid, acidic, inorganic, n.o.s.  
Transport document description (ADR) : UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (mixture with Nitric acid), 8, II, (E)

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 8  
Danger labels (ADR) : 8



### 14.4. Packing group

Packing group (ADR) : II

### 14.5. Environmental hazards

Dangerous for the environment : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

Special transport precautions : Risk of burns, This product contains hazardous components for the aquatic environment, Do not allow to enter drains or water courses



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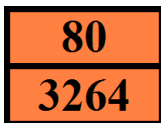
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### Overland transport

Hazard identification number (Kemler No.) : 80

Orange plates :



Tunnel restriction code (ADR) : E

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### VOC Directive (2004/42)

VOC content : 0 %

##### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### ANNEX I RESTRICTED EXPLOSIVES PRECURSORS

List of substances which shall not be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Limit value	Upper limit value for licensing under Article 5(3)	Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Nitric acid	7697-37-2	3 % w/w	10% w/w	ex 2808 00 00	ex 3824 99 96

Please see [https://ec.europa.eu/home-affairs/system/files/2021-11/list\\_of\\_competent\\_authorities\\_and\\_national\\_contact\\_points\\_en.pdf](https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf)

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### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No data available

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
8.2			
9.1			
16			

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
Met. Corr. 1	Corrosive to metals, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.