

### Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 13/11/2014 Revision date: 13/11/2014 : Version: 1.1

WWW.FASTMSDS.COM

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

1.1. Product identifier

Product form : Mixture

Name : SINGLE ELEMENT STANDARD SOLUTION FOR AAS - ZINC 1000 mg/l (B 169)

Product code : B169

#### 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 Industrial/Professional use spec : Industrial

For professional use only

Function or use category : Laboratory chemicals

#### 1.2.2. Uses advised against

No additional information available

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

SPECTRACER UK ltd. 201 Dyke Road BN3 1TL Hove United Kingdom

T +44 (0)207 193 9114 - F +44 (0)203 432 4686

Email: contact@spectracer.co.uk

#### 1.4. Emergency telephone number

Emergency number : 112 (EU)

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

#### **SECTION 2: Hazards identification**

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

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

Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

N; R51/53

Full text of R-phrases: 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]

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment

P501 - Dispose of contents/container to a hazardous or special waste collection point

### 2.3. Other hazards

No additional information available



Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

### **SECTION 3: Composition/information on ingredients**

#### **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1	1 - 5	O; R8 C; R35
zinc nitrate	(CAS No) 7779-88-6 (EC no) 231-943-8	0,1 - 1	O; R8 Xn; R22 Xi; R36/37/38 N; R50/53
Name	Product identifier	Specific co	ncentration limits
nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1	(5 =< C < 20) (C >= 20) C;F (C >= 70) O;F	R35
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	1 - 5	Ox. Liq. 3, H272 Skin Corr. 1A, H314
zinc nitrate	(CAS No) 7779-88-6 (EC no) 231-943-8	0,1 - 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Name	Product identifier	Specific co	ncentration limits
nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1		Skin Corr. 1B, H314 n Corr. 1A, H314 . Liq. 3, H272

Full text of R- and H-phrases: see section 16

### **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

Remove affected clothing and wash all exposed skin area with mild soap and water, followed First-aid measures after skin contact

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. First-aid measures after ingestion

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

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

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

#### **Advice for firefighters**

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

26/03/2015 EN (English) 2/11



### Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

#### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters. Avoid release to the environment.

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

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour.

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

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids. Incompatible materials : Sources of ignition. Direct sunlight.

#### Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters** 8.1.

	nitric acid (7697-37-2)			
IOELV STEL (mg/m³)	2,6 mg/m³			
IOELV STEL (ppm)	1 ppm			
Local name	Salpetersäure			
MAK Short time value (mg/m³)	2,6 mg/m <sup>3</sup>			
MAK Short time value (ppm)	1 ppm			
Local name	Acide nitrique			
Short time value (mg/m³)	2,6 mg/m <sup>3</sup>			
Short time value (ppm)	1 ppm			
Local name	Азотна киселина•			
OEL STEL (mg/m³)	2,6 mg/m³			
Local name	Dušična kiselina			
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	2,6 mg/m³			
KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	1 ppm			
Naznake (HR)	EU** O, C			
Local name	Kyselina dusi ná			
Expoziční limity (PEL) (mg/m³)	1 mg/m³			
Expoziční limity (PEL) (ppm)	0,39 ppm			
Expoziční limity (NPK-P) (mg/m³)	2,5 mg/m³			
Expoziční limity (NPK-P) (ppm)	1 ppm			
Local name	Salpetersyre (2007)			
Grænseværdie (kortvarig) (mg/m³)	2,6 mg/m³			
	IOELV STEL (ppm)  Local name  MAK Short time value (mg/m³)  MAK Short time value (ppm)  Local name  Short time value (mg/m³)  Short time value (ppm)  Local name  OEL STEL (mg/m³)  Local name  KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)  KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)  Naznake (HR)  Local name  Expoziční limity (PEL) (mg/m³)  Expoziční limity (PEL) (ppm)  Expoziční limity (NPK-P) (mg/m³)  Expoziční limity (NPK-P) (ppm)			

26/03/2015 EN (English) 3/11



Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

nitric acid (7697-37-2)		
Denmark	Grænseværdie (kortvarig) (ppm)	1 ppm
Denmark	Anmærkninger (DK)	ES
Estonia	Local name	Lämmastikhape
Estonia	OEL STEL (mg/m³)	2,6 mg/m³
Estonia	OEL STEL (ppm)	1 ppm
	Local name	
Finland		Typpihappo
Finland	HTP-arvo (8h) (mg/m³)	1,3 mg/m³
Finland	HTP-arvo (8h) (ppm)	0,5 ppm
Finland	HTP-arvo (15 min)	2,6 mg/m³
Finland	HTP-arvo (15 min) (ppm)	1 ppm
France	Local name	Acide nitrique
France	VLE (mg/m³)	2,6 mg/m³
France	VLE (ppm)	1 ppm
Germany	Local name	Salpetersäure
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	2,6 mg/m³
Germany	TRGS 900 Occupational exposure limit value (ppm)	1 ppm
Germany	Remark (TRGS 900)	EU,13,16
Greece Greece	OEL STEL (mg/m³) OEL STEL (ppm)	2,6 mg/m³
	Local name	1 ppm SALÉTROMSAV
Hungary	CK-érték	
Hungary		2,6 mg/m³
Hungary	Megjegyzések (HU)	i, m; l.
Ireland	Local name	Nitric acid
Ireland	OEL (15 min ref) (mg/m3)	2,6 mg/m³
Ireland	OEL (15 min ref) (ppm)	1 ppm
Ireland	Notes (IE)	IOELV
Italy	Local name	Acido nitrico
Italy	OEL STEL (mg/m³)	2,6 mg/m³
Italy	OEL STEL (ppm)	1 ppm
Lithuania	Local name	Nitrato rūgštis (azoto rūgštis)
Lithuania	TPRV (mg/m³)	2,6 mg/m³
Lithuania	TPRV (ppm)	1 ppm
Luxembourg	Local name	Acide nitrique
Luxembourg	OEL STEL (mg/m³)	2,6 mg/m³
Luxembourg	OEL STEL (ppm)	1 ppm
Malta	Local name	Nitric acid
Malta	OEL STEL (mg/m³)	2,6 mg/m³
Malta	OEL STEL (ppm)	1 ppm
Netherlands	Local name	Salpeterzuur
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	1,3 mg/m³
Netherlands	Grenswaarde TGG 15MIN (ppm)	Salpeterzuur, 0.5 ppm; Netherlands; Short time value; Public occupational exposure limit value
Poland	Local name	Kwas azotowy(V)
Poland	NDS (mg/m³)	1,4 mg/m³
Poland	NDSCh (mg/m³)	2,6 mg/m³
Portugal	Local name	Ácido nítrico
Portugal	OEL TWA (ppm)	2 ppm
Portugal	OEL STEL (ppm)	4 ppm



Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

nitric acid (7697-37-2)		
Romania	Local name	Acid nitric
Romania	OEL STEL (mg/m³)	2,6 mg/m³
Romania	OEL STEL (ppm)	1 ppm
Slovenia	Local name	dušikova kislina
Slovenia	OEL TWA (mg/m³)	2,6 mg/m³
Slovenia	OEL TWA (ppm)	1 ppm
Slovenia	OEL STEL (mg/m³)	2,6 mg/m³
Slovenia	OEL STEL (ppm)	1 ppm
Sweden	Local name	Nitric acid
Sweden	kortidsvärde (KTV) (mg/m³)	13 mg/m³
Sweden	kortidsvärde (KTV) (ppm)	5 ppm
United Kingdom	Local name	Nitric acid
United Kingdom	WEL STEL (mg/m³)	2,6 mg/m³
United Kingdom	WEL STEL (ppm)	1 ppm
Iceland	Local name	Saltpéturssýra
Iceland	OEL (15 min ref) (mg/m3)	2,6 mg/m³
Iceland	OEL (15 min ref) (ppm)	1 ppm
Norway	Local name	Salpetersyre
Norway	Gjennomsnittsverdier (AN) (mg/m³)	5 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	2 ppm
Switzerland	Local name	Acide nitrique
Switzerland	VME (mg/m³)	5 mg/m³
Switzerland	VME (ppm)	2 ppm
Switzerland	VLE (mg/m³)	5 mg/m³
Switzerland	VLE (ppm)	2 ppm
Switzerland	Remark (CH)	15 min
Australia	Local name	Nitric acid
Australia	TWA (mg/m³)	5,2 mg/m³
Australia	TWA (ppm)	2 ppm
Australia	STEL (mg/m³)	10 mg/m³
Australia	STEL (ppm)	4 ppm
USA - ACGIH	Local name	Nitric acid
USA - ACGIH	ACGIH TWA (ppm)	2 ppm
USA - ACGIH	ACGIH STEL (ppm)	4 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr; dental erosion
USA - OSHA	Local name	Nitric acid
USA - OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
USA - OSHA	OSHA PEL (TWA) (ppm)	2 ppm

#### **Exposure controls**

Appropriate engineering controls : Provide adequate general and local exhaust ventilation.

Personal protective equipment : Protective goggles. Gloves.



### Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

Hand protection : Wear protective gloves

Eye protection : Chemical goggles or safety glasses

Respiratory protection Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended

: No data available





Other information : Do not eat, drink or smoke during use.

#### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. Odour characteristic. Odour threshold : No data available No data available рΗ Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point : No data available Boiling point : No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) : Non flammable Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density : No data available Solubility : No data available Log Pow No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available

#### Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### Reactivity

No additional information available

## **Chemical stability**

Not established.

**Explosive limits** 

#### 10.3. Possibility of hazardous reactions

Not established.

#### **Conditions to avoid** 10.4.

Direct sunlight. Extremely high or low temperatures.

#### **Incompatible materials**

Strong acids. Strong bases.

#### **Hazardous decomposition products**

Fume. Carbon monoxide. Carbon dioxide.

26/03/2015 EN (English) 6/11



Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

<b>SECTION 11</b>	: Toxicol	ogical	information
<u></u>		<b>-9.04.</b>	IIII O I III a a a a a a a a a a a a a a

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

zinc nitrate (7779	<b>)-88-6)</b>
--------------------	----------------

LD50 oral rat 1330 mg/kg (Rat)

Skin corrosion/irritation : Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : 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

Specific target organ toxicity (single exposure) : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated

exposure)

: Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

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

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

zinc nitrate (7779-88-6)	
LC50 fish 1	2,61 mg/l (96 h; Pimephales promelas; Zinc ion)
EC50 Daphnia 1 0,068 mg/l (48 h; Daphnia magna; Zinc ion)	
Threshold limit algae 1	< 0,12 mg/l (Algae; Zinc ion)

nitric acid (7697-37-2)	
LC50 fish 1	25 - 36 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1 180 mg/l (48 h; Daphnia magna)	
LC50 fish 2 72 ppm (Gambusia affinis)	
Threshold limit algae 1	> 19 mg/l (Algae)

#### 12.2. Persistence and degradability

•	SINGLE ELEMENT STANDARD SOLUTION FOR AAS - ZINC 1000 mg/l (B 169)

Persistence and degradability

May cause long-term adverse effects in the environment.

zinc nitrate (7779-88-6)		
Persistence and degradability	Biodegradability: Not applicable. Adsorbs into the soil.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

nitric acid (7697-37-2)		
Persistence and degradability	Biodegradability: Not applicable.	

26/03/2015 EN (English) 7/11



### Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

nitric acid (7697-37-2)	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

#### 12.3. **Bioaccumulative potential**

SINGLE ELEMENT STANDARD SOLUTION FOR AAS - ZINC 1000 mg/l (B 169)		
Bioaccumulative potential	Not established.	
nitric acid (7697-37-2)		
BCF fish 1	<= 1 (Pisces)	
Log Pow	-2,3 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)	
Bioaccumulative potential	Bioaccumulation: Not applicable.	

#### Mobility in soil

No additional information available

#### Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Additional information : Avoid release to the environment

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 16 05 06\* - laboratory chemicals consisting of or containing dangerous substances including

mixtures of laboratory chemicals

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### **UN** number

Not dangerous goods in terms of transport regulations

#### **UN** proper shipping name 14.2.

Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (RID) : Not applicable

#### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not applicable



#### **IMDG**

Transport hazard class(es) (IMDG) Not applicable



26/03/2015 EN (English) 8/11



Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable Packing group (IMDG) : Not applicable Packing group (IATA) : Not applicable : Not applicable Packing group (ADN) Packing group (RID) : Not applicable

**Environmental hazards** 

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. **Overland transport** 

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. **Inland waterway transport** 

: No Carriage prohibited (ADN) Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

#### 15.1.1. **EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008

SINGLE ELEMENT STANDARD SOLUTION FOR AAS - ZINC 1000 mg/l (B 169)

26/03/2015 EN (English) 9/11



## Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or SINGLE ELEMENT STANDARD SOLUTION categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 FOR AAS - ZINC 1000 mg/l (B 169)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. **National regulations**

#### Germany

Water hazard class (WGK) : 2 - hazard to waters

WGK remark : Classification water polluting based on the components in compliance with

Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information

Full text of R-, H- and EUH-phrases:

ruil text of K-, 11- and Lot i-philases.	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed
R35	Causes severe burns
R36/37/38	Irritating to eyes, respiratory system and skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R8	Contact with combustible material may cause fire
С	Corrosive
N	Dangerous for the environment
0	Oxidising
Xi	Irritant
Xn	Harmful

SDS EU Mod H F (REACH ANNEX II)

26/03/2015 10/11 EN (English)



Safety Data Sheet

according to Regulation (EC) No. 453/2010

WWW.FASTMSDS.COM

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.

26/03/2015 EN (English) 11/11