

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 25/02/2018 Revision date: 25/02/2018 Version: 1.1

WWW.FASTMSDS.COM

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

### **Product identifier**

Product form : Mixture

: Turbidity Standard 2000NTU Product name

Product code TY2000

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

#### 121 Relevant identified uses

: Professional use,Industrial use Main use category

: Certified reference material for laboratory use Use of the substance/mixture

Function or use category : Laboratory chemicals

#### 1.2.2. Uses advised against

No additional information available

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

### Spectracer UK Ltd.

Second Floor, 27 Gloucester Place, London

W1U 8HU, United Kingdom.

Tel: +44 (0) 207 193 9114 Fax:+44 (0) 203 432 4686 Email: contact@spectracer.co.uk Web: www.spectracer.com

### **Emergency telephone number**

Emergency number : Tel: +44(0)1933 445260 Option 1. Language: English only.

For Chemical Emergencies Only Llewellyn (Safety Advisors) Europe Ltd

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	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**

### Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317 Carcinogenicity, Category 1B H350

Full text of H statements : see section 16

# Adverse physicochemical, human health and environmental effects

May cause cancer. May cause an allergic skin reaction.

### **Label elements**

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

Hazard pictograms (CLP)





GHS08

Signal word (CLP) : Danger

27/02/2018 EN (English) SDS Ref.: TY2000

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

WWW.FASTMSDS.COM

Hazardous ingredients : methenamine, hexamethylenetetramine; hydrazine sulphate

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 - IF exposed or concerned: Get medical advice/attention.

P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

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

accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methenamine, hexamethylenetetramine	(CAS-No.) 100-97-0 (EC-No.) 202-905-8 (EC Index-No.) 612-101-00-2	1 - 5	Flam. Sol. 2, H228 Skin Sens. 1, H317
hydrazine sulphate	(CAS-No.) 10034-93-2 (EC-No.) 233-110-4 (EC Index-No.) 007-014-00-6	0,1 - 0,5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

27/02/2018 EN (English) SDS Ref.: TY2000 2/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

WWW.FASTMSDS.COM

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

### Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Avoid

breathing dust/fume/gas/mist/vapours/spray.

### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### **Environmental precautions**

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### Methods and material for containment and cleaning up

Methods for cleaning up Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

Other information : Dispose of materials or solid residues at an authorized site

### Reference to other sections

For further information refer to section 13.

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

### Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly.

Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Separate working clothes from town clothes. Launder separately. Contaminated work clothing Hygiene measures should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Always wash hands after handling the product.

### Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool, well ventilated place away from : Direct sunlight,

Heat and ignition sources. Store locked up. Store in a well-ventilated place. Keep cool.

### Specific end use(s)

No additional information available

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

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

methenamine, hexamethylenetetramine (100-97-0)			
Bulgaria	Local name	Уротропин	
Bulgaria	OEL TWA (mg/m³)	2 mg/m³	
Bulgaria	Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа	
Estonia	Local name	Heksametüleen-tetraamiin	
Estonia	OEL TWA (mg/m³)	3 mg/m³	
Estonia	OEL STEL (mg/m³)	5 mg/m³	
Estonia	Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293	
Lithuania	Local name	Heksametilentetraminas	
Lithuania	IPRV (mg/m³)	3 mg/m³	
Lithuania	TPRV (mg/m³)	5 mg/m³	
Lithuania	Remark (LT)	J (jautrinantis poveikis)	
Lithuania	Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011	
Poland	Local name	1,3,5,7-Tetraazaadamantan (sześciometylenoczteroamina)	
Poland	NDS (mg/m³)	4 mg/m³	

27/02/2018 EN (English) SDS Ref.: TY2000 3/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# WWW.FASTMSDS.COM

methenamine, hexamethylenetetramine (100-97-0)				
Poland	Regulatory reference	Dz. U. 2017 poz. 1348		
Sweden	Local name Hexametylentetramin			
Sweden	nivågränsvärde (NVG) (mg/m³)	3 mg/m³		
Sweden	kortidsvärde (KTV) (mg/m³)	5 mg/m³		
Sweden	Anmärkning (SE)	S (Ämnet är sensibiliserande Sensibiliserande ämnen kan ge allergi eller annan överkänslighet. Överkänslighetsbesvären drabbar främst huden eller andningsorganen. Överkänslighet innebär att man reagerar vid kontakt med ämnen som normalt inte ger besvär. Allergi är en undergrupp av överkänslighet som orsakas av reaktioner i kroppens immunsystem. Särskilt låga gränsvärden har fastställts för ämnen med mer uttalat luftvägssensibiliserande egenskaper. Några ämnen med starkt sensibiliserande egenskaper får endast hanteras efter tillstånd från Arbetsmiljöverket, se föreskrifterna om kemiska arbetsmiljörisker. Dessa ämnen har inga gränsvärden men i vissa fall riktvärden); V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)		
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)		
Iceland	Local name	Hexametýlentetramín		
Iceland	d OEL (8 hours ref) (mg/m³) 3 mg/m³			
Iceland	Notes (IS) O (efnið er ofnæmisvaldandi)			
Iceland	Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)		
Norway	Local name	Heksametylentetramin		
Norway	Grenseverdier (AN) (mg/m³)	3 mg/m³		
Norway	Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704		

# 8.2. Exposure controls

# Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Ensure good ventilation of the work station.

# Personal protective equipment:

Protective goggles. Gloves. Protective clothing.

### Hand protection:

Protective gloves

# Eye protection:

Safety glasses

# Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. [In case of inadequate ventilation] wear respiratory protection.

# Personal protective equipment symbol(s):







27/02/2018 EN (English) SDS Ref.: TY2000 4/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

WWW.FASTMSDS.COM

### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : No data available Odour : No data available : No data available Odour threshold No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable 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) : Not applicable Vapour pressure : No data available Relative vapour density at 20 °C : No data available : No data available Relative density 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

### 9.2. Other information

No additional information available

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

### 10.1. Reactivity

**Explosive limits** 

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

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

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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

methenamine, hexamethylenetetramine (100-97-0)	
LD50 oral rat	> 5000 mg/kg (Rat)

: No data available

27/02/2018 EN (English) SDS Ref.: TY2000 5/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

WWW.FASTMSDS.COM

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.
Reproductive toxicity : Not classified

STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The 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

methenamine, hexamethylenetetramine (100-97-0)	
LC50 fish 1	49800 mg/l (LC50; 96 h)
EC50 Daphnia 1	36000 mg/l (EC50; 48 h)

# 12.2. Persistence and degradability

methenamine, hexamethylenetetramine (100-97-0)		
Persistence and degradability	Hydrolysis in water.	
Biochemical oxygen demand (BOD)	0,026 g O₂/g substance	
ThOD	1,37 g O₂/g substance (NH3)	
BOD (% of ThOD)	0,01897	

- (	1 272 27
hydrazine sulphate (10034-93-2)	
Persistence and degradability	Biodegradable in soil.

### 12.3. Bioaccumulative potential

methenamine, hexamethylenetetramine (100-97-0)		
Log Pow -4,152,13		
hydrazine sulphate (10034-93-2)		
Bioaccumulative potential	No data available.	

### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

27/02/2018 EN (English) SDS Ref.: TY2000 6/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### WWW.FASTMSDS.COM

ADR	IMDG	IATA	ADN	RID
14.3. Transport hazai	d class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			·	·
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

### - Overland transport

Not regulated

### - Transport by sea

Not regulated

### - Air transport

Not regulated

### - Inland waterway transport

Not regulated

### - Rail transport

Not regulated

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

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	Turbidity Standard 2000NTU
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Turbidity Standard 2000NTU

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

# 15.1.2. National regulations

Germany	
---------	--

Reference to AwSV : Water hazard class (WGK) 3, severe hazard to waters (Classification according to AwSV,

Annex 1)

Storage class (LGK) : LGK 6.1D - Non-combustible substances of acute toxicity, category

3 / hazardous substances that are toxic or produce

chronic effects

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen – Vruchtbaarheid

27/02/2018 EN (English) SDS Ref.: TY2000 7/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

WWW.FASTMSDS.COM

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: None of the components are listed

Denmark

**Danish National Regulations** 

: Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the

product

The requirements from the Danish Working Environment Authorities regarding work with

carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

### Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Flam. Sol. 2	Flammable solids, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H228	Flammable solid.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### SDS EU Mod H F (REACH ANNEX II)

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.

27/02/2018 EN (English) SDS Ref.: TY2000 8/8