

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

### SECTION 1.0 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 Product identifier

Product name: PrimeStore Molecular Transport Medium® (MTM)

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

Identified uses: Transport medium for swabs

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

Name: EKF Diagnostic GmbH  
Address: Ebendorfer Chaussee 3,  
39179 Barleben,  
Germany  
Telephone: 0049 (0) 39203 5110  
Email: [support@ekf-diagnostic.de](mailto:support@ekf-diagnostic.de)  
Fax: 0049 (0) 39203511-171

#### 1.4 Emergency telephone number

Mon – Thu 08:00 to 16:30; Fri 08:00 to 14:30: 0049 (0) 39203 511414

For medical advice (in German and English): 0049 (0) 551 192 40  
(Giftinformationszentrum Nord)

### SECTION 2.0 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

GHS classification according to Regulation (EC) No. 1907/2006

Hazard classes and hazard categories	Hazard statements
Flammable liquid, category 3	H226
Acute toxicity, category 4, inhalation	H332
Skin corrosion, category 1C	H314
Serious eye damage, category 1	H318
Chronic aquatic toxicity, category 3	H412

For the full text of the H-Statements mentioned in this section, see section 16.

#### 2.2 GHS Label elements

Hazard pictograms



Signal word: Danger

Hazard statements	
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P303 +P361 + P353	IF ON SKIN (or hair): Remove/ 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.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P260	Do not breathe fumes/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

### 2.3 Other hazards

Contact with acids liberates very toxic gas.

< 0.7% of the mixture consists of ingredients of unknown dermal toxicity.

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical Name	% Range	CAS No.	EC No.	REACH Registratio n No.	Classification
Guanidine Thiocyanate	20 - 30	593-84-0	209-812-1	01-2120735072-65-XXXX	Acute Tox. 4; H302+H312+H332 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412
Ethanol	19 - 25	64-17-5	200-578-6	01-2119457610-43-XXXX	Flam. Liq.2; H225 Eye Irrit.2; H319 Specific concentration limits: ≥ 50% Eye. Irrit. 2
N-Lauroylsarcosine Na <sup>+</sup>	< 0.7	137-16-6	205-281-5	01-2119527780-39-XXX	Acute Tox.2; H330 Skin Irrit.2; H315 Eye Dam.1; H318

					Specific concentration limits: ≤ 34.5% Acute Tox. 4 > 34.5% Acute Tox. 2 > 30% Skin Irrit. 2; Eye damage 1 ≥ 1 - ≤ 30% Eye Irrit. 2
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For the full text of the H-Statements mentioned in this section, see section 16.

## SECTION 4.0 FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

If exposed or in case of symptoms caused by eye or skin contact, inhalation or swallowing, consult a physician. Show this safety data sheet to the physician in attendance. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.

#### In case of inhalation

Remove patient immediately from source of exposure. Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

#### In case of eye contact

Rinse immediately with plenty of water (also under the eyelids) for at least 15 minutes, holding the eye open. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.

#### In case of skin contact

Wash off immediately with plenty of soap and water. Take off contaminated clothing and shoes immediately and wash before reuse. Obtain immediate medical attention.

#### In case of ingestion

Immediately call a POISON CENTRE/doctor. Do not induce vomiting. Immediately rinse mouth with water and drink plenty of water (200-300ml).

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

Product is a corrosive material. Causes severe burns by all exposure routes. May cause perforation of the stomach or oesophagus. Ingestion causes severe swelling, severe damage to delicate tissue and possible perforation.

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

Obtain immediate medical attention following inhalation, ingestion or skin, or eye contact. Treatment should be symptomatic and supportive.

## SECTION 5.0 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** Water spray, alcohol resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** Do NOT use water jet.

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

Flammable liquid and vapor. Produces hazardous combustion products of hydrogen sulphide, sulphur dioxide, ammonia, hydrocyanic acid, carbon oxides, nitric oxides.

### 5.3 Advice for firefighters

Self-contained breathing apparatus with full-face mask and full protective clothing. Be aware of possibility of re-ignition. This product gives off flammable vapours which may form explosive mixtures with air. Vapours with a source of ignition can create a flash fire. Run off to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Use water to cool fire-exposed containers and to disperse vapour. Prevent run-off from fire-fighting entering drains, sewers or watercourses.

### 5.4 Further information

None.

## SECTION 6.0 ACCIDENTAL RELEASE MEASURES

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

Eliminate all sources of ignition. Ensure adequate ventilation. Wear appropriate protective clothing - see Section 8. Do not breathe fumes/mist/vapours/spray. Avoid contact with skin and eyes.

### 6.2 Environmental precautions

Product or extinguishing media with product must not be allowed to enter soil, drains, sewers or watercourses. Do not flush into surface water or sanitary sewer system. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

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

Absorb using earth, sand or other inert material then transfer into suitable, closed containers for disposal. Ventilate contaminated area thoroughly. Flush with water. Dispose of as hazardous waste.

### 6.4 Reference to other sections

See also Sections 8 and 13.

## SECTION 7.0 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Provide appropriate exhaust ventilation at machinery.

Do not inhale vapours, mists or aerosols. Avoid contact with eyes, skin and clothing.

Suitable equipment for dealing with fires, spills and leaks must be readily available. Earth all equipment. Use explosion protected electrical equipment, ventilating and lighting. Use non-sparking tools. Static electricity and formation of sparks must be prevented. Keep away from heat, sparks, open flames and/or hot surfaces – No smoking.

Wear protective gloves/protective clothing/eye protection/face protection. Wash parts of the body in contact with substance thoroughly after handling. Do not eat, drink or smoke when using this product. See section 8.2 for occupational hygiene and exposure prevention measures.

Can form flammable vapours in air. Vapours are heavier than air and may travel to a source of ignition and flash back. Vapours can spread along the ground and collect in low or confined spaces.

### 7.2 Consideration for safe storage, including any incompatibilities

Store unused product at 2 to 25 Deg C. Store in the dark. Storage area should be dry, well ventilated, out of direct sunlight and separated from oxidants and acids. Store in tightly closed, original containers. Store away from sources of heat or ignition. Do not smoke eat or drink in areas of use and storage.

### 7.3 Specific end use(s)

Refer to Section 1.

## SECTION 8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Components with Occupational Exposure Limits:

Chemical Name	CAS No.	Country	Limit value – 8 hours		Limit value - Short term	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Guanidine Thiocyanate	593-84-0	No Occupational Exposure Limits assigned				
Ethanol	64-17-5	United Kingdom	1000	1920		
		Germany (AGS)	200	380	800 (1)	1520 (1)
		Germany (DFG)	200	380	800 (1)	1520 (1)
		Belgium	1000	1907		
		Denmark	1000	1900	2000	3800
		Finland	1000	1900	1300 (1)	2500 (1)
		France	1000	1900	5000	9500
		Ireland			1000 (1)	
		Poland		1900		
		Spain			1000	1910
		Sweden	500	1000	1000 (1)	1910 (1)

		The Netherlands		260		1900
N-Lauroylsarcosine Na <sup>+</sup>	137-16-6	No Occupational Exposure Limits assigned				

(1) 15 minutes average value

**DNEL/DMEL/PNEC threshold levels****DNELs for guanidine thiocyanate:**

<b>Data for workers</b>				
<b>Route of exposure</b>	<b>Short-term Local (DNEL)</b>	<b>Short-term Systemic (DNEL)</b>	<b>Long-term Local (DNEL)</b>	<b>Long-term Systemic (DNEL)</b>
<b>Inhalation</b>	Medium hazard (no threshold derived)	3.28 mg/m <sup>3</sup>	Medium hazard (no threshold derived)	1.092 mg/m <sup>3</sup>
<b>Dermal</b>	Medium hazard (no threshold derived)	No hazard identified	Medium hazard (no threshold derived)	310 µg/kg bw/day
<b>Eye exposure</b>	Medium hazard (no threshold derived)			

<b>Data for general population</b>				
<b>Route of exposure</b>	<b>Short-term Local (DNEL)</b>	<b>Short-term Systemic (DNEL)</b>	<b>Long-term Local (DNEL)</b>	<b>Long-term Systemic (DNEL)</b>
<b>Inhalation</b>	Medium hazard (no threshold derived)	Hazard unknown (no further information necessary as no exposure expected)	Medium hazard (no threshold derived)	270 µg/m <sup>3</sup>
<b>Dermal</b>	Medium hazard (no threshold derived)	No hazard identified	Medium hazard (no threshold derived)	155 µg/kg bw/day
<b>Oral</b>		No hazard identified		155 µg/kg bw/day
<b>Eye exposure</b>	Medium hazard (no threshold derived)			

**PNECs for guanidine thiocyanate:**

<b>Environmental compartment</b>	<b>PNEC value</b>
Freshwater	42.4 µg/L
Intermittent releases (freshwater)	424 µg/L
Marine water	4.24 µg/L
Intermittent releases (marine water)	424 µg/L
Sewage treatment plant (STP)	20 mg/L
Freshwater sediment	165 µg/kg sediment dw
Marine water sediment	16.5 µg/kg sediment dw
Air	No hazard identified

Soil (terrestrial organisms)	8.03 µg/kg soil dw
Secondary poisoning (predators)	No potential for bioaccumulation

**DNELs for ethanol:**

<b>Data for workers</b>				
<b>Route of exposure</b>	<b>Short-term Local (DNEL)</b>	<b>Short-term Systemic (DNEL)</b>	<b>Long-term Local (DNEL)</b>	<b>Long-term Systemic (DNEL)</b>
<b>Inhalation</b>	1900 mg/m <sup>3</sup>	No hazard identified	No hazard identified	950 mg/m <sup>3</sup>
<b>Dermal</b>	No hazard identified	No hazard identified	No hazard identified	343 mg/kg bw/day
<b>Eye exposure</b>	Medium hazard (no threshold derived)			

<b>Data for general population</b>				
<b>Route of exposure</b>	<b>Short-term Local (DNEL)</b>	<b>Short-term Systemic (DNEL)</b>	<b>Long-term Local (DNEL)</b>	<b>Long-term Systemic (DNEL)</b>
<b>Inhalation</b>	950 mg/m <sup>3</sup>	No hazard identified	No hazard identified	114 mg/m <sup>3</sup>
<b>Dermal</b>	No hazard identified	No hazard identified	No hazard identified	206 mg/kg bw/day
<b>Oral</b>		No hazard identified		87 mg/kg bw/day
<b>Eye exposure</b>	Medium hazard (no threshold derived)			

**PNECs for ethanol:**

<b>Environmental compartment</b>	<b>PNEC value</b>
Freshwater	960 µg/L
Intermittent releases (freshwater)	2.75 mg/L
Marine water	790 µg/L
Intermittent releases (marine water)	-
Sewage treatment plant (STP)	580 mg/L
Freshwater sediment	3.6 mg/kg sediment dw
Marine water sediment	2.9 mg/kg sediment dw
Air	No hazard identified
Soil (terrestrial organisms)	630 µg/kg soil dw
Secondary poisoning (predators)	380 - 720 mg/kg food

**DNELs for N-Laurylsarcosine Na<sup>+</sup>:**

<b>Data for workers</b>				
<b>Route of exposure</b>	<b>Short-term Local (DNEL)</b>	<b>Short-term Systemic (DNEL)</b>	<b>Long-term Local (DNEL)</b>	<b>Long-term Systemic (DNEL)</b>
<b>Inhalation</b>	Medium hazard (no threshold derived)	High hazard (no threshold derived)	Medium hazard (no threshold derived)	70.53 mg/m <sup>3</sup>
<b>Dermal</b>	Low hazard (no threshold derived)	Low hazard (no threshold derived)	Low hazard (no threshold derived)	20 mg/kg bw/day
<b>Eye exposure</b>	Medium hazard (no threshold derived)			

<b>Data for general population</b>				
<b>Route of exposure</b>	<b>Short-term Local (DNEL)</b>	<b>Short-term Systemic (DNEL)</b>	<b>Long-term Local (DNEL)</b>	<b>Long-term Systemic (DNEL)</b>
<b>Inhalation</b>	Low hazard (no threshold derived)	No hazard identified	Low hazard (no threshold derived)	17.39 mg/m <sup>3</sup>
<b>Dermal</b>	No hazard identified	No hazard identified	No hazard identified	10 mg/kg bw/day
<b>Oral</b>		No hazard identified		10 mg/kg bw/day
<b>Eye exposure</b>	Low hazard (no threshold derived)			

**PNECs for N-Laurylsarcosine Na<sup>+</sup>:**

<b>Environmental compartment</b>	<b>PNEC value</b>
Freshwater	8.91 µg/L
Intermittent releases (freshwater)	89.1 µg/L
Marine water	891 ng/L
Intermittent releases (marine water)	8.91 µg/L
Sewage treatment plant (STP)	3 mg/L
Freshwater sediment	64.2 µg/kg sediment dw
Marine water sediment	6.4 µg/kg sediment dw
Air	No hazard identified
Soil (terrestrial organisms)	7.6 µg/kg soil dw
Secondary poisoning (predators)	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain



## 8.2 Exposure controls

The measures appropriate for a particular workplace depend on how the material is used and on the potential for exposure. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal equipment, which is known to perform satisfactorily, should be used. Check workplace health risk assessment.

### Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. In case of insufficient ventilation, wear suitable respiratory equipment.

### Personal protective equipment

There are multiple factors that will affect the specific requirements such as amount and concentration of the material, duration of exposure, frequency of exposure, permeability, contact temperature etc. See also Section 5.

#### Eye/face protection

Tightly fitting safety goggles/safety glasses with side protection.

#### Skin protection

Handling bulk mixture: Nitrile rubber gloves; break through time: > 480 min; Glove thickness 0.4 mm. The exact choice of glove type depends on the type of work being undertaken. Gloves should be chosen in consultation with a glove manufacturer and after a full assessment of the working conditions. Gloves should be replaced regularly.

#### Body protection

Standard work wear for normal handling and use.

#### Respiratory protection

Required if vapours, mists or aerosols are generated.

#### Environmental exposure controls

Do not let product enter drains. Measures based on adequate handling practices and facilities, containment and filtered extraction intended to minimise exposure to the material should also minimise release of it to the environment. See also Section 6.2.

#### General hygiene

Wash hands after contact. Do not eat, drink or smoke in immediate work area. Remove contaminated clothing and protective equipment before entering eating areas.

## SECTION 9.0 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Colourless liquid
Odour	Alcohol-like
Odour threshold	No information available
pH	6.8 - 7.0 at 25 Deg C
Melting point/freezing point	No information available

Initial boiling point and boiling point range	>35 Deg C
Flash point	37 Deg C (closed cup)
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	Upper explosion limit: 13.5% Lower explosion limit: 2.5% (Ethanol)
Vapour pressure	No information available
Vapour density	No information available
Relative density	No information available
Solubility in water	Miscible
Solubility in other	No information available
Partition coefficient: n-octanol/water	Not applicable
Autoignition temperature	Does not self-ignite
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	Not classified as explosive
Oxidising properties	Not oxidising

## 9.2 Other information

No other data available.

## SECTION 10.0 STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions. Do not mix with bleach or other halogenated chemicals as this produces cyanide gas.

### 10.2 Chemical stability

Stable under normal temperature conditions. Light sensitive (Guanidine thiocyanate).

### 10.3 Possibility of hazardous reactions

Contact with acids or acid vapours may liberate cyanide vapours.

### 10.4 Conditions to avoid

Avoid temperatures above 40 °C. Avoid heat, flames and other sources of ignition. Avoid exposure to light.

### 10.5 Incompatible materials

Peroxides, oxidizing agents, acids and alkalis. Aluminium at higher temperatures.

### 10.6 Hazardous decomposition products

Hydrogen sulphide, sulphur dioxide, ammonia, hydrocyanic acid, carbon oxides, nitric oxides.

## SECTION 11.0 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### **Guanidine thiocyanate**

##### **Acute toxicity**

LD50, Oral Rat - 593 mg/kg (OECD Test Guideline 401).

ATE, Dermal - 1100

ATE, Inhalation - 1.5

##### **Skin corrosion/irritation**

Skin, Rabbit, 4 Hr – Corrosive (OECD Test Guideline 404).

##### **Serious eye damage/eye irritation**

Causes serious eye damage.

##### **Respiratory or skin sensitisation**

Unlikely to cause sensitisation in contact with skin.

No data available on respiratory sensitisation.

##### **Specific target organ toxicity (STOT) - single exposure**

No information.

##### **Specific target organ toxicity (STOT) - repeated exposure**

No information.

##### **Aspiration hazard**

Not applicable.

##### **Germ cell mutagenicity**

No indications of germ cell mutagenicity.

##### **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.

##### **Reproductive toxicity**

No indications of reproductive toxicity.

##### **Other toxicological information**

High doses may cause an adverse effect on the thyroid gland.

#### **Ethanol**

##### **Acute toxicity**

LD50, Oral Rat - 10,470 mg/kg (OECD Test Guideline 401).

LD50, Dermal Rat - > 2,000 mg/kg Body Weight

LC50, Inhalation Rat, 4 Hr - 124.7 mg/l (OECD Test Guideline 403).

##### **Skin corrosion/irritation**

Skin, Rabbit, 24 Hr – No skin irritation (OECD Test Guideline 404).

##### **Serious eye damage/irritation**

Eyes, Rabbit – Causes serious eye damage (OECD Test Guideline 405).

**Respiratory or skin sensitisation**

Unlikely to cause respiratory or skin sensitisation.

Guinea Pig, Maximisation Test – Negative (OECD Test Guideline 406).

**Specific target organ toxicity (STOT) - single exposure**

No data available.

**Specific target organ toxicity (STOT) - repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Germ cell mutagenicity**

Ames Test (Salmonella typhimurium) – Negative.

In vitro mammalian cell gene mutation test, mouse lymphoma cells – Negative (OECD Test Guideline 478).

Mouse, Male - Positive results obtained in some in vivo tests.

**Reproductive toxicity**

No data available.

**Other toxicological information**

Repeated dose toxicity, Oral, Male Rat - No observed adverse effect level 1,730 mg/kg. Lowest observed adverse effect level 3,200 mg/kg.

Affects include, irritant effects, respiratory paralysis, dizziness, narcosis, inebriation, euphoria, nausea, vomiting.

**N-Lauroylsarcosine Na<sup>+</sup>**

**Acute toxicity**

LD50, Oral Rat - >5,000 mg/kg (OECD Test Guideline 401).

LD50, Dermal Rat - No data available.

LC50, Inhalation Rat, 4 Hr - >0.05 – 0.5 mg/l (OECD Test Guideline 403).

**Skin corrosion/irritation**

In vitro (skin) - Non-corrosive (OECD Test Guideline 431).

Causes skin irritation.

**Serious eye damage**

Causes serious eye damage.

**Respiratory or skin sensitisation**

No data available on respiratory sensitisation.

Unlikely to cause sensitisation in contact with skin.

Guinea pig, Maximisation test – Negative (OECD Test Guideline 406).

**STOT - single exposure**

No data available.

**Germ cell mutagenicity**

Ames test, Salmonella typhimurium - Negative.

Mutagenicity (mammalian cell test) – Chromosome aberration.  
Human lymphocytes – Negative.  
In vitro mammalian cell gene mutation test, mouse lymphoma test – 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.

**Reproductive toxicity**

No data available.

**SECTION 12.0 ECOLOGICAL INFORMATION**

**12.1 Toxicity**

<b>Guanidine thiocyanate</b>	
Harmful to aquatic organisms with long lasting effects.	
Toxicity to fish	LC50, <i>Poecilia reticulata</i> (guppy), 96 Hr - 89.1 mg/l (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	EC50, <i>Daphnia magna</i> (Water flea), 48 Hr - 42.4 mg/l (OECD Test Guideline 202)
<b>Ethanol</b>	
Toxicity to fish	LC50, <i>Pimephales</i> (fathead minnow), 96 Hr, flow-through – 15,300 mg/l
Toxicity to daphnia and other aquatic invertebrates	EC50, <i>Ceriodaphnia dubia</i> (water flea), 48 Hr – 5,012 mg/l
Toxicity to algae	ErC50, <i>Chlorella vulgaris</i> (fresh water algae), 72 Hr – 275 mg/l (OECD Test Guideline 201)
Toxicity to bacteria	IC50, activated sludge, 3 Hr, static - >1,000 mg/l (OECD Test Guideline 209)
<b>N-Lauroylsarcosine Na<sup>+</sup></b>	
Toxicity to fish	LC50, <i>Pimephales</i> ( <i>Danio rerio</i> ), 96 Hr, semi-static - 107 mg/l (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	EC50, <i>Daphnia magna</i> (water flea), 48 Hr, static – 29.7 mg/l (OECD Test Guideline 202)
Toxicity to algae	NOEC, <i>Desmodesmus subspicatus</i> (green algae), 72 Hr, static – 9.2 mg/l (OECD Test Guideline 201)

## 12.2 Persistence and degradability

### Biodegradability

#### **Guanidine thiocyanate**

No data available.

#### **Ethanol**

Readily biodegradable.

Biodegradability, aerobic (15 Days) – 95% (OECD Test Guideline 301E)

Biochemical Oxygen Demand (BOD) 930 – 1,670 mg/g

Theoretical Oxygen Demand (ThOD) – 2,100 mg/g

#### **N-Lauroylsarcosine Na<sup>+</sup>**

Readily biodegradable.

Biodegradability, aerobic (28 Days) – 82% (OECD Test Guideline 301E)

## 12.3 Bioaccumulative potential

#### **Guanidine thiocyanate**

No data available.

#### **Ethanol**

Accumulation in organisms is unlikely.

#### **N-Lauroylsarcosine Na<sup>+</sup>**

No data available.

## 12.4 Mobility in soil

#### **Guanidine thiocyanate**

No data available.

#### **Ethanol**

No data available.

#### **N-Lauroylsarcosine Na<sup>+</sup>**

No data available.

## 12.5 Results of PBT and vPvB assessment

None of the ingredients are PBT or vPvB.

## 12.6 Other adverse effects

Harmful to aquatic organisms with long lasting effects.

## SECTION 13.0 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### **Product**

This product must be disposed of as hazardous waste. Dispose of waste in accordance with local, state, and federal regulations. Incineration is the recommended method of disposal. Product must not be treated as household

waste. Do not mix the product with bleach or other halogenated chemicals. Do not mix with other waste. Do not allow product to enter sewage system.

#### **Contaminated packaging**

Dispose of as unused product. Empty containers may contain hazardous residues. Contaminated containers or packaging must not be treated as household waste. Do not use bleach or other halogenated chemicals to clean or decontaminate containers or packaging. Do not mix with other waste.

### **SECTION 14.0 TRANSPORT INFORMATION**

This product is dangerous for transport. If it is transported or offered for carriage it must be packaged, marked, labelled and documented in accordance with the applicable modal transport rules (**ADR** for European road, **RID** for European rail, **ADN** for European inland waterways, **IMDG Code** for international sea and **ICAO/IATA Technical Instructions** for international air).

UN number: 2924  
UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(ETHANOL, GUANIDINE THIOCYANTE)  
Transport hazard class: 3  
Subsidiary hazard: 8  
Packing group: III  
Environmental hazards: Not Environmentally Hazardous / Not classified as a Marine Pollutant.

### **SECTION 15.0 REGULATORY INFORMATION**

#### **15.1 Safety, health and environment regulations/legislation specific for the mixture**

This safety data sheet has been compiled according to Regulation (EC) No. 1907/2006.

#### **15.2 Chemical safety assessment**

A chemical safety assessment for this product was not carried out.

### **SECTION 16.0 OTHER INFORMATION**

#### **Abbreviations and acronyms used in this SDS**

DNEL	The derived no effect level (DNEL) is the level of exposure above which a human should not be exposed to a substance.
DMEL	The derived minimum effect level (DMEL) is the level of exposure above which a human should not be exposed to a substance.
IARC	International Agency for Research on Cancer
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organization-Technical Instructions

IMDG	International Maritime Code for Dangerous Goods
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	The Predicted No-Effect Concentration (PNEC) value is the concentration of a substance below which adverse effects in the environment are not expected to occur.

#### Sources of data used for this SDS:

Suppliers safety data sheets.

European Chemicals Agency: <http://echa.europa.eu/>

GESTIS International Limit Values.

#### Hazard Statements referred to in this SDS

H225:	Highly flammable liquid and vapour.
H302+H312+H332:	Harmful if swallowed, in contact with skin or if inhaled.
H314:	Causes severe skin burns and eye damage.
H315:	Causes skin irritation.
H318:	Causes serious eye damage.
H319:	Causes serious eye irritation.
H330:	Fatal if inhaled.
H412:	Harmful to aquatic life with long lasting effects.