

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>1 / 14</b>

**1. Identification****1.1. Product identifier**

Trade name MetAMINO®  
DL-Methionine, Feed Grade 99%

CAS-No. 59-51-8

**1.2. Recommended use of the chemical and restrictions on use**

Relevant applications identified Feed additive

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

Company Evonik Corporation USA  
299 Jefferson Road  
Parsippany, NJ 07054-0677  
USA

Telephone 973-929-8000

Telefax 973-929-8040

Email address Product-Regulatory-Services@Evonik.com

**1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:**

**CHEMTREC - US &  
CANADA:** 800-424-9300

**CHEMTREC MEXICO:** 01-800-681-9531

**CHEMTREC  
INTERNATIONAL:** +1 703-527-3887 (collect calls accepted)

Product Regulatory Services : 973-929-8060

**2. Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200

Remarks Not a hazardous substance or mixture.

**2.2. Label elements**

Statutory basis Classification according to Regulation 29CFR 1910.1200  
Remarks Not a hazardous substance or mixture.

Contains DL-Methionine  
The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 99 %

**2.3. Other hazards**

Dust may form explosive mixture in air.

Inhalation No hazard expected in normal use.  
Skin No hazard expected in normal use.  
Eyes No hazard expected in normal use.

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	3.0 / US
Specification	101612	Revision date	04/22/2015
Order Number		Print Date	04/22/2015
		Page	2 / 14

Ingestion No hazard expected in normal use.

**3. Composition/information on ingredients**

<b>• DL-Methionine</b>	>= 99%
CAS-No.	59-51-8
Remarks	Not a hazardous substance or mixture.

**Other information**

This material is classified as not hazardous under OSHA regulations.  
This product is intended for FDA regulated uses only.

**4. First aid measures****4.1. Description of first aid measures****Inhalation**

In case product dust is released:  
Possible discomfort: cough, sneezing  
Move victims into fresh air.

**Skin contact**

No hazards which require special first aid measures.

**Eye contact**

Possible discomfort is due to foreign substance effect.  
Rinse thoroughly with plenty of water keeping eyelid open.  
In case of persistent discomfort: Consult an ophthalmologist.

**Ingestion**

Have the mouth rinsed with water.  
After absorbing large amounts of substance:  
Consult a physician.

**4.2. Most important symptoms and effects, both acute and delayed****4.3. Indication of any immediate medical attention and special treatment needed**

After absorbing large amounts of substance:  
Possible discomfort: nausea, vomiting  
Treatment of symptoms, administration of activated charcoal, acceleration of the gastro-intestinal tract.

**5. Fire-fighting measures****5.1. Extinguishing media**

Suitable extinguishing media: Water, Foam, mist  
Unsuitable extinguishing media: Carbon dioxide (CO<sub>2</sub>)

**5.2. Special hazards arising from the substance or mixture**

May be released in case of fire: hydrocyanic acid, flammable smouldering gases, NO<sub>x</sub>.  
sulphur oxides, carbon monoxide, carbon dioxide.

**5.3. Advice for firefighters**

Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.  
Fire residues should be disposed of in accordance with the regulations.

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>3 / 14</b>

In the event of fire, wear self-contained breathing apparatus.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protective equipment. Keep unauthorized persons away.

**6.2. Environmental precautions**

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

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

Absorb mechanically avoiding production of dust.

**7. Handling and storage****7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Advice on protection against fire and explosion**

Take precautionary measures against static charges, keep away from sources of ignition. Avoid dust formation.

Combustible

**Storage**

Store in a cool and shaded area.

Keep containers dry and tightly closed to avoid moisture absorption and contamination.

**German storage class**

11 - Combustible Solids

**Dust explosion class**

St1

Method: VDI Guideline 2263 sheet 1

Maximum rate of pressure rise: 88 bar/s

Standardized max. rate of pressure increase, KSt: 85bar·m/s

**8. Exposure controls/personal protection****8.1. Control parameters**

• exposure limit for dust		
CAS-No.		
Control parameters	3 mg/m <sup>3</sup>	Time Weighted Average (TWA):(ACGIH)
type of exposure	Respirable fraction. Suitable measuring processes are: NIOSH method 0500 NIOSH method 0600	
Control parameters	10 mg/m <sup>3</sup>	Time Weighted Average (TWA):(ACGIH)
type of exposure	Inhalable particulate.	
Control parameters	15 mg/m <sup>3</sup>	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(OSHA Z1)
type of exposure	Total dust.	
Control parameters	5 mg/m <sup>3</sup>	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(OSHA Z1)

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>4 / 14</b>

type of exposure	Respirable fraction. Suitable measuring processes are: NIOSH method 0500 NIOSH method 0600
------------------	---

**DNEL/DMEL values**

Remarks No substance-related safety assessment is necessary / has been conducted for this product.

**PNEC values**

Remarks No substance-related safety assessment is necessary / has been conducted for this product.

**8.2. Exposure controls****Engineering measures**

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne exposure.

Take measures to prevent the build up of electrostatic charge.

**Personal protective equipment****Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Hand protection**

Glove material Nitrile, for example, Dermatril 740, Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0.11 mm

Break through time 8 h

Method DIN EN 374

Glove material Natural rubber (NR), for example, Cama Clean 708, Kächele-Cama Latex GmbH (KCL), Germany

Material thickness 0.5 mm

Break through time 8 h

Method DIN EN 374

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

**Eye protection**

Safety glasses with side-shields

If dust occurs: basket-shaped glasses

**Skin and body protection**

No special protective equipment required.

**Hygiene measures**

Wash face and/or hands before break and end of work.

Cleanse and apply cream to skin after work.

**Protective measures**

Handle in accordance with good industrial hygiene and safety practice.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>5 / 14</b>

physical state	solid		
Colour	white to light brown		
Form	solid		
Odour	characteristic		
Odour Threshold	<1 ppb		
pH	5.6 - 6.1	(10 g/l)	(25 °C)
Melting point/range	281 °C decomposition		
Boiling point/range	not applicable		
Flash point	not applicable solid		
Evaporation rate	No data available		
Flammability (solid, gas)	not highly flammable Method: UN method N.1		
Lower explosion limit	dust:	30 g/m <sup>3</sup>	
Upper explosion limit	No data available		
Vapour pressure	< 0.0000001 hPa Method: calculated Modified Grain Method		
Vapour density	No data available		
Relative vapour density	no data available		
Relative density	No data available		
Water solubility	33.5 g/l	(25 °C)	
	Related to substance:	pure substance	
Partition coefficient: n-octanol/water	log Pow:	-1.87	
	Related to substance:	pure substance	
Autoignition temperature	330 °C Method: VDI Guideline 2263 sheet 1 (BAM-furnace) Standard commercial product with characteristic grain size distribution is normally flammable.		
Thermal decomposition	215 °C TG (thermal gravimetric analysis)		
Viscosity, dynamic	not applicable		

**9.2. Other information**

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>6 / 14</b>

Explosiveness	Not to be expected in view of the structure		
carbonisation point	210 °C		
Bulk density	610 - 750 kg/m <sup>3</sup>		
glow temperature	> 400 °C Method: VDI 2263		
Minimum ignition energy	> 10 mJ (140 °C) Classification: Normal combustability Method: VDI Guideline 2263 sheet 1 mean grain size: 48 µm sieve fraction without inductance		
maximum absolute explosive pressure	7.8 bar		
Metal corrosion	no data available		
speed of hydrolysis	half-life period:	1 years	(25 °C)
Burning number	BZ 5 - burns out with flames or shower of sparks. Method: VDI 2263		

**10. Stability and reactivity****10.1. Reactivity**

No further information available

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions      Dust can form an explosive mixture in air.

**10.4. Conditions to avoid**

See chapter  
7.2. Conditions for safe storage, including any incompatibilities

**10.5. Incompatible materials**

No further information available

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**11. Toxicological information****11.1. Information on toxicological effects**

Acute oral toxicity      NOEL Rat: 10000 mg/kg

Acute inhalation toxicity      NOAEL Rat: 5.25 mg/l / 4 h  
Method: OECD Test Guideline 403

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>7 / 14</b>

Acute dermal toxicity	no data available
Skin irritation	Rabbit: 500 mg / 4 h No skin irritation Method: OECD Test Guideline 404
Eye irritation	Rabbit: 100 mg No eye irritation Method: OECD Test Guideline 405
Sensitization	Buehler Test Guinea pig: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Rat Testing period: 9 month NOAEL: 700 mg/kg Method: literature Reversible effects during the application period on liver, spleen, pancreas,
Assessment of STOT single exposure	Assessment: no data available
Assessment of STOT repeat exposure	Assessment: no data available
Risk of aspiration toxicity	no data available
Gentotoxicity in vitro	Microorganisms, cell cultures none mutagenic / genotoxic effects Method: literature  Ames test Salmonella typhimurium negative Method: OECD TG 471
Carcinogenicity	no data available
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction	1 generation pharyngal probe Rat: in maternally non-toxic doses NOEL (No Observed Effect Level) of parents: 300 mg/kg NOEL F1: 300 mg/kg Method: OECD Test Guideline 415
Human experience	gastro-intestinal symptoms: nausea, vomiting Side-effects were observed in the event of higher dosage (10 g)

**Toxicological information on components****DL-Methionine**

Acute oral toxicity	LD50 Rat: > 10000 mg/kg Method: literature No signs of toxicity occurred
Acute inhalation toxicity	LC0 Rat(male/female): > 5.25 mg/l / 4 h

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>8 / 14</b>

	Method:	OECD Test Guideline 403
		limit test (maximum concentration attainable in experiments) - No deaths occurred.
Acute dermal toxicity	Assessment:	no data available
Skin irritation	Rabbit:	500 mg / 4 h
		No skin irritation
	Method:	OECD Test Guideline 404
Eye irritation	Rabbit:	100 mg
		No eye irritation
	Method:	OECD Test Guideline 405
Sensitization	Buehler Test Guinea pig:	Does not cause skin sensitisation.
	Method:	OECD Test Guideline 406
Repeated dose toxicity	Oral Rat	
	Testing period:	9 month
	NOAEL:	700 mg/kg
	Method:	literature
		Reversible effects during the application period on liver, spleen, pancreas,
Gentoxicity in vitro	Microorganisms, cell cultures	
		none mutagenic / genotoxic effects
	Method:	literature
	Ames test Salmonella typhimurium	
		negative
	Method:	OECD TG 471
Toxicity to reproduction	1 generation pharyngeal probe Rat:	in maternally non-toxic doses
	NOEL (No Observed Effect Level) of parents:	300 mg/kg
	NOEL F1:	300 mg/kg
	Method:	OECD Test Guideline 415
Human experience	gastro-intestinal symptoms:	nausea, vomiting
	Side-effects were observed in the event of higher dosage (10 g)	

**12. Ecological information****12.1. Toxicity**

Toxicity to fish	LC50 (Brachydanio rerio):	> 3200 mg/l / 96 h
	Method:	OECD 203
	NOEC (Brachydanio rerio):	3200 mg/l / 96 h
	Method:	OECD 203
Toxicity in aquatic invertebrates	NOEC Daphnia magna:	220 mg/l / 48 h
	Method:	OECD TG 202
	EC50 Daphnia magna:	324 mg/l / 48 h



**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>9 / 14</b>

Method: OECD TG 202

Toxicity to algae  
EC50 static test *Desmodesmus subspicatus*: > 1000 mg/l / 72 h  
End point: Biomass  
Analytical monitoring: yes  
Method: OECD TG 201

EC50 static test *Desmodesmus subspicatus*: > 1000 mg/l / 72 h  
End point: growth rate  
Analytical monitoring: yes  
Method: OECD TG 201

Toxicity to bacteria  
EC10 *Pseudomonas putida*: 2000 mg/l / 18 h  
Method: UBA method

**12.2. Persistence and degradability**

Biodegradability  
Result: rapidly biodegradable  
Method: OECD TG 301 A

Biochemical Oxygen Demand (BOD)  
480 mg/g  
Concentration: (BOD5)

**12.3. Bioaccumulative potential**

Bioaccumulation  
low  
log Pow: see chapter 9

**12.4. Mobility in soil**

Mobility  
No data available

**12.5. Other adverse effects**

Further Information  
No further information available

---

**13. Disposal considerations****13.1. Waste treatment methods****Product**

Waste must be disposed of in accordance with federal, provincial and local regulations.

**Uncleaned packaging**

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

---

**14. Transport information**

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>10 / 14</b>

**Not dangerous according to transport regulations.**

- 14.1. UN number: --
- 14.2. UN proper shipping name: --
- 14.3. Transport hazard class(es): --
- 14.4. Packing group: --
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes  
Not dangerous according to transport regulations.

---

**15. Regulatory information****US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

**Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

**CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

**SARA Title III Section 311/312 Hazard Categories**

The product meets the criteria only for the listed hazard classes:

- No SARA Hazards

**SARA Title III Section 313 Reportable Substances**

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

**Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>11 / 14</b>

**Other US Federal Regulatory Information**

Observe national regulations.

**State Regulations****California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

- None listed

**International Chemical Inventory Status**

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

Europe (EINECS/ELINCS)	listed/registered
USA (TSCA)	listed/registered
Canada (DSL)	listed/registered
Australia (AICS)	listed/registered
Japan (MITI)	listed/registered
Philippines (PICCS)	listed/registered
China	listed/registered
Switzerland	not listed/registered

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

**HMIS Ratings**

Health :	0
Flammability :	1
Physical Hazard :	0

**16. Other information****Further information**

Revision date 04/22/2015

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>12 / 14</b>

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>13 / 14</b>

**Legend**

<b>ACC</b>	American Chemistry Council
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ACS</b>	Advisory Committee on Sustainability
<b>ADI</b>	Acceptable Daily Intake
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BOD</b>	Biochemical oxygen demand
<b>c.c.</b>	closed cup
<b>CAO</b>	Cargo Aircraft Only
<b>Carc</b>	Carcinogen
<b>CAS</b>	Chemical Abstract Services
<b>CDN</b>	Canada
<b>CEPA</b>	Canadian Environmental Protection Act
<b>CERCLA</b>	Comprehensive Environmental Response – Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>COD</b>	Chemical oxygen demand
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>DOT</b>	Department of Transportation
<b>EC50</b>	half maximal effective concentration
<b>EPA</b>	Environmental Protection Agency
<b>ErC50</b>	Reduction of Growth Rate
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>HCS</b>	Hazard Communication Standard
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	Intermediate Bulk Container
<b>ICAO-TI</b>	International Civil Aviation Organization- Technical Instructions
<b>ICCA</b>	International Council of Chemical Association
<b>ID</b>	Identification number
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>ISO</b>	International Organization For Standardization
<b>LC50</b>	50 % Lethal Concentration
<b>LD50</b>	50 % Lethal Dose
<b>L(E)C50</b>	LC50 or EC50
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships
<b>NFPA</b>	National Fire Protection Association
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>RQ</b>	Reportable Quantity
<b>SDS</b>	Safety Data Sheet
<b>STOT</b>	Specific Target Organ Toxicity
<b>UN</b>	United Nations
<b>vPvB</b>	very persistent, very bioaccumulative

**SAFETY DATA SHEET****MetAMINO® DL-Methionine, Feed Grade 99%**

Material no.		Version	<b>3.0 / US</b>
Specification	<b>101612</b>	Revision date	<b>04/22/2015</b>
Order Number		Print Date	<b>04/22/2015</b>
		Page	<b>14 / 14</b>

**voc** volatile organic compounds  
**WHMIS** Workplace Hazardous Materials Information System  
**WHO** World Health Organization