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MONOETHANOLAMINE

Version Revision Date: 11/18/2015 1.1

SDS Number:	
400001020142	

Date of last issue: 11/13/2015 Date of first issue: 11/13/2015

SECTION 1. IDENTIFICATION

Product name	: MONOETHANOLAMINE	
Manufacturer or supplier's de	etails	
Company name of supplier Address	 Huntsman International LLC P.O. Box 4980 The Woodlands, TX 77387 United States of America 	
Telephone	: TechInfo: (281) 719-7780	
E-mail address of person responsible for the SDS	: MSDS@huntsman.com	
Emergency telephone	: Chemtrec: (800) 424-9300 or (703) 527-3887	

Recommended use of the chemical and restrictions on use

Recommended use	: Intermediate

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	
Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 4
Acute toxicity (Dermal)	: Category 4
Skin corrosion	: Category 1
Serious eye damage	: Category 1
Specific target organ systemic toxicity - single exposure	: Category 3 (Respiratory system)
Acute aquatic toxicity	: Category 3
Chronic aquatic toxicity	: Category 3
GHS Label element Hazard pictograms	
Signal Word	: Danger

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MONOETHANOLAMINE

Version Revision Date: .1 11/18/2015	SDS Number:Date of last issue: 11/13/2015400001020142Date of first issue: 11/13/2015
Hazard Statements	 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	 Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protectior face protection. Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediatel: all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. P363 Wash contaminated clothing before reuse. Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Substance

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ethanol, 2-amino-	141-43-5	95 - 100

SECTION 4. FIRST AID MEASURES

General advice

: Move out of dangerous area. Consult a physician.

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MONOETHANOLAMINE

Version 1.1	Revision Date: 11/18/2015	SDS Number: 400001020142	Date of last issue: 11/13/2015 Date of first issue: 11/13/2015
		attendance.	aterial safety data sheet to the doctor in the victim unattended.
lf inh	aled	advice.	us place in recovery position and seek medical persist, call a physician.
In ca	se of skin contact	wounds from difficulty. If on skin, rin	nedical treatment is necessary as untreated a corrosion of the skin heal slowly and with use well with water. a remove clothes.
In ca	se of eye contact	tissue dama In the case of of water and Continue rins Remove con Protect unha Keep eye wi	
If swa	allowed	Keep respira Do NOT indu Do not give r Never give a If symptoms	with water and drink afterwards plenty of water. tory tract clear. uce vomiting. milk or alcoholic beverages. nything by mouth to an unconscious person. persist, call a physician. mmediately to hospital.
	important symptoms effects, both acute and /ed	: None known	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Unsuitable extinguishing media	: High volume water jet	
Specific hazards during fire fighting	: Do not allow run-off from fire fighting to enter drains or water courses.	
Hazardous combustion products	: No hazardous combustion products are known	
Specific extinguishing methods	: No data is available on the product itself.	
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.	5

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MONOETHANOLAMINE

Versio 1.1	n Revision Date: 11/18/2015	SDS Number: 400001020142	Date of last issue: 11/13/2015 Date of first issue: 11/13/2015
			nd contaminated fire extinguishing water must in accordance with local regulations.
	pecial protective equipment or fire-fighters	: Wear self-conta necessary.	ained breathing apparatus for firefighting if

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	 Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection.
Environmental precautions	 Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	 Neutralize with acid. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Advice on safe handling	 Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	 Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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rsion	Revision Date: 11/18/2015	SDS Number: 400001020142		st issue: 11/13/2015 st issue: 11/13/2015		
Ingree	dients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
Ethar	nol, 2-amino-	141-43-5	TWA	3 ppm	ACGIH	
			STEL	6 ppm	ACGIH	
			TWA	3 ppm 6 mg/m3	OSHA Z-1	
			STEL	6 ppm 15 mg/m3	OSHA PEL	
			TWA	3 ppm 8 mg/m3	OSHA PEL	
Perso	onal protective equip	oment				
		Use a proper complying wit indicates this Respirator se exposure leve	 approved filter. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. 			
	protection marks	The selected specifications EN 374 deriv	 Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water. 			
Eye p	protection	Tightly fitting Wear face-sh problems. Ensure that e	 Eye wash bottle with pure water Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems. Ensure that eyewash stations and safety showers are close to the workstation location. 			
Skin a	and body protection	Choose body	impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.			
Hygie	ene measures	When using a	n using do not eat or drink. n using do not smoke. n hands before breaks and at the end of workday.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	amine-like
Odor Threshold	:	> 4.2776 ppm

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MONOETHANOLAMINE

Vers 1.1	sion	Revision Date: 11/18/2015		S Number: 0001020142	Date of last issue: 11/13/2015 Date of first issue: 11/13/2015
	рН		:	12.1, Concentrat	ion: 100 g/l (20 °C)
	Melting	point	:	9.96 - 10.6 °C	
	Boiling	point	:	167 - 172 °C	
	Flash p	oint	:	95.5 °C Method: Pensky	Martens closed cup, closed cup
	Evapor	ation rate	:	No data is availa	ble on the product itself.
	Flamma	ability (solid, gas)	:	No data is availa	ble on the product itself.
	Upper e	explosion limit	:	17 %(V)	
	Lower e	explosion limit	:	5 %(V)	
	Vapor p	pressure	:	0.58 hPa (26.85	°C)
	Relative	e vapor density	:	2.1	
	Relative	e density	:	1.02	
	Density	,	:	1.02 g/cm3 (20 °	C)
	Solubili Wate	ty(ies) er solubility	:	completely misci	ble (20 °C)
	Solu	bility in other solvents	:	Solvent: Methan Description: solu	
	Partition octanol	n coefficient: n- /water	:	log Pow: -1.91 (2 Method: OECD 7	25 °C) Fest Guideline 107
	Autoign	ition temperature	:	410 °C	
	Therma	al decomposition	:	No data is availa	ble on the product itself.
	Viscosi Visco	ty osity, dynamic	:	18.95 mPa.s (25	°C)
	Visco	osity, kinematic	:	23.6 mm2/s (20	°C)
	Oxidizir	ng properties	:	None.	
		celerating position temperature	:	No data is availa	ble on the product itself.
		lar weight	:	61.08 g/mol	

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MONOETHANOLAMINE

Version	Revision Date:	SDS Number:
1.1	11/18/2015	400001020142

Date of last issue: 11/13/2015 Date of first issue: 11/13/2015

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	 No dangerous reaction known under conditions of normal use. Stable under normal conditions. Exothermic reaction with acids. Stable under normal conditions.
	Halogenated hydrocarbon Reacts with the following substances: Strong oxidizing agents Strong acids
Conditions to avoid	No data available
Hazardous decomposition products	 Carbon monoxide Carbon dioxide (CO2) Burning produces obnoxious and toxic fumes. Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	No data is available on the product itself.	
Acute toxicity Acute oral toxicity - Product	Acute toxicity estimate : 1,090 mg/kg Method: Calculation method	
Acute inhalation toxicity - Product	Acute toxicity estimate: 11.01 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method	
Acute dermal toxicity - Product	LD50 (Rabbit, male and female): 2,504 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is moderately toxic a single contact with skin.	after
Acute toxicity (other routes of administration)	No data available	
Skin corrosion/irritation		
Product:		

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Version

1.1

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Date of last issue: 11/13/2015

Date of first issue: 11/13/2015

MONOETHANOLAMINE

Revision Date:

11/18/2015

SDS Number:

400001020142

11/18/2015	400001020142 Date of first issue: 11/13/2015
Respiratory or skin sens	sitization
Product:	
Remarks: No data availab	ble
Assessment:	No data available
Germ cell mutagenicity	
Ingredients:	
Ethanol, 2-amino-:	
Genotoxicity in vitro	: Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
	Metabolic activation: negative Result: negative
Ingredients: Ethanol, 2-amino-: Genotoxicity in vivo	: Application Route: Oral Exposure time: 24 h Dose: 375 - 1500 mg/kg Method: OECD Test Guideline 474 Result: negative
Carcinogenicity	
No data available	
Carcinogenicity - Assessment	: No data available
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinog by NTP.
Reproductive toxicity	
Ingredients:	
Ethanol, 2-amino-:	
Effects on fortility	· Charles Dat male and famale

: Species: Rat, male and female

Effects on fertility

MONOETHANOLAMINE

Version 1.1	Revision Date: 11/18/2015	SDS Nur 4000010		Date of last issue: 11/13/2015 Date of first issue: 11/13/2015
		Targe		e: Oral Reproductive organs Fest Guideline 416
Etha	redients: anol, 2-amino-: ects on fetal development	Gene effec Meth	cation Route ral Toxicity level): 120 od: OECD T	e: Oral Maternal: NOAEL (No observed adverse mg/kg body weight ⁻ est Guideline 414 genic effects.
		Appli Gene effec Meth	level): 75 n od: OECD T	e: Dermal Maternal: NOAEL (No observed adverse ng/kg body weight Fest Guideline 414 genic effects.
•	productive toxicity - essment	: No da	ata available	9

STOT-single exposure

Ingredients:

Ethanol, 2-amino-: Routes of exposure: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

STOT-repeated exposure

No data available

Repeated dose toxicity

Ingredients:

Ethanol, 2-amino-: Species: Rat, male and female NOEC: 300 mg/m3 Application Route: Ingestion Test atmosphere: vapor Exposure time: 672 h Number of exposures: 7 d Method: OECD Test Guideline 412

Repeated dose toxicity - : No data available Assessment

Aspiration toxicity

No data available



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MONOETHANOLAMINE

Version	Revision Date:	SDS Number:	Date of last issue: 11/13/2015
1.1	11/18/2015	400001020142	Date of first issue: 11/13/2015

Experience with human exposure

General Information:	No data available
Inhalation:	No data available
Skin contact:	No data available
Eye contact:	No data available
Ingestion:	No data available

Toxicology, Metabolism, Distribution No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:	
Ethanol, 2-amino-: Toxicity to fish	: LC50 (Cyprinus carpio (Carp)): 349 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water
Ingredients:	
Ethanol, 2-amino-: Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): 65 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water Method: Directive 67/548/EEC, Annex V, C.2.
Ingredients:	
Ethanol, 2-amino-: Toxicity to algae	: ErC50 (Selenastrum capricornutum (green algae)): 2.5 mg/l Exposure time: 72 h Test substance: Fresh water

MONOETHANOLAMINE

Version 1.1	Revision Date: 11/18/2015	SDS Number: 400001020142	Date of last issue: 11/13/2015 Date of first issue: 11/13/2015
		Method: OECD	Test Guideline 201
	Factor (Acute aquatic icity)	: No data availab	le
Eth To>	redients: anol, 2-amino-: kicity to fish (Chronic icity)	Exposure time: Test substance	
Eth To> aqu	redients: anol, 2-amino-: kicity to daphnia and other uatic invertebrates pronic toxicity)	Exposure time: Test substance	
	Factor (Chronic aquatic icity)	: No data availab	le
То	kicity to bacteria	: No data availab	le
	kicity to soil dwelling anisms	: No data availab	le
Pla	nt toxicity	: No data availab	le
Sec	diment toxicity	: No data availab	le
	kicity to terrestrial anisms	: No data availab	le
Eco	otoxicology Assessment		
Eth	<u>redients:</u> anol, 2-amino- : ute aquatic toxicity	: Harmful to aqua	atic life.
Chi	ronic aquatic toxicity	: No data availab	le
То	kicity Data on Soil	: No data availab	le
	ner organisms relevant to environment	: No data availab	le
	ther information: data available		
Per	sistence and degradabil	ity	
	redients:		
	anol, 2-amino-: degradability	: Inoculum: active	ated sludge



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MONOETHANOLAMINE

Version 1.1	Revision Date: 11/18/2015		S Number: 0001020142	Date of last issue: 11/13/2015 Date of first issue: 11/13/2015
			Concentration: 20 Result: Readily bi Biodegradation: > Exposure time: 21 Method: OECD Te	odegradable. > 90 %
	emical Oxygen Ind (BOD)	:	No data available	
Chem (COD	ical Oxygen Demand)	:	No data available	
BOD/	COD	:	No data available	
ThOD	1	:	No data available	
BOD/	ThOD	:	No data available	
Disso (DOC	lved organic carbon)	:	No data available	
	co-chemical /ability	:	No data available	
Stabil	ity in water	:	No data available	
Ethan	dients: ol, 2-amino-: degradation	:	Test Type: Air Rate constant: 35 Degradation (dire	.844 ct photolysis): 50 %
Impac Treatr	et on Sewage ment	:	No data available	
Bioac	cumulative potential			
Bioac	cumulation	:	No data available	
	on coefficient: n- ol/water - Product	:	log Pow: -1.91 (25 Method: OECD To	
Mobil Mobili	ity in soil ty	:	No data available	
Ethan Distrik enviro	dients: ol, 2-amino-: oution among onmental compartments ity in soil	:	Koc: 1.167. No data available	

Other adverse effects



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Versic 1.1	on	Revision Date: 11/18/2015		0S Number: 0001020142	Date of last issue: 11/13/2015 Date of first issue: 11/13/2015	
	Environmental fate and pathways		:	No data available		
	Results of PBT and vPvB assessment		:	: No data available		
	Endocrine disrupting potential		:	No data available		
	Adsorbed organic bound halogens (AOX)		:	No data available		
н	lazard	ous to the ozone lay	er			
		Depletion Potential	:	Protection of Stra Substances Remarks: This pro manufactured with	R Protection of Environment; Part 82 tospheric Ozone - CAA Section 602 Class I oduct neither contains, nor was n a Class I or Class II ODS as defined by the t Section 602 (40 CFR 82, Subpt. A, App.A +	
		nal ecological tion - Product	:	unprofessional ha Harmful to aquation	hazard cannot be excluded in the event of ndling or disposal. c life. c life with long lasting effects.	
	Global v GWP)	warming potential	:	No data available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulation

ΙΑΤΑ	
UN/ID No.	: UN 2491
Proper shipping name	: Ethanolamine
Class	: 8



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MONOETHANOLAMINE

ersion 1	Revision Date: 11/18/2015	SDS Number: 400001020142	Date of last issue: 11/13/2015 Date of first issue: 11/13/2015
Packi	ng group	: 111	
Label		: Corrosive	
	ng instruction (cargo	: 856	
Packi	ng instruction enger aircraft)	: 852	
IMDG	i		
UN nı	umber	: UN 2491	
Prope	er shipping name	: ETHANOLAMI	NE
Class		: 8	
Packi	ng group	: 111	
Label	-	: 8	
EmS		: F-A, S-B	
Marin	e pollutant	: no	

Not applicable for product as supplied.

Domestic regulation

DOT Classification

UN/ID/NA number	: UN 2491
Proper shipping name	: ETHANOLAMINE
Class	: 8
Packing group	: III
Labels	: CORROSIVE
ERG Code	: 153
Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION

TSCA - 5(a) Significant New : Not relevant Use Rule List of Chemicals

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ	Calculated product RQ
-		(lbs)	(lbs)
DIETHANOLAMINE (DELA)	111-42-2	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards	Acute Health Hazard	
SARA 313	This material does not contain any chemical components known CAS numbers that exceed the threshold (De Minim reporting levels established by SARA Title III, Section 313	nis)

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MONOETHANOLAMINE

Version	Revision Date:	SDS Number:	Date
1.1	11/18/2015	400001020142	Date

Date of last issue: 11/13/2015 Date of first issue: 11/13/2015

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

California Prop 65

WARNING! This product contains a chemical known in the State of California to cause cancer.

2,2'-iminodiethanol

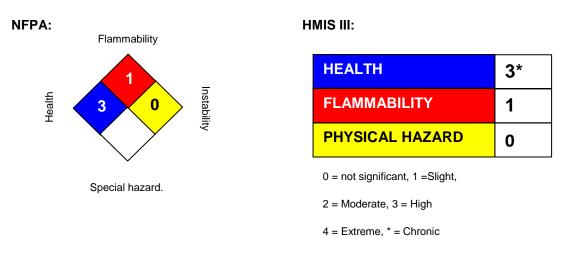
111-42-2

The ingredients of this product are reported in the following inventories:

	The mixture contains substances listed on the Swiss Inventory On TSCA Inventory
DSL :	All components of this product are on the Canadian DSL.
AICS :	On the inventory, or in compliance with the inventory
NZIoC :	On the inventory, or in compliance with the inventory
ENCS :	On the inventory, or in compliance with the inventory
ISHL :	On the inventory, or in compliance with the inventory
KECI :	On the inventory, or in compliance with the inventory
	On the inventory, or in compliance with the inventory
IECSC :	On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information



Revision Date

: 11/18/2015

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

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MONOETHANOLAMINE

Version	Revision Date:	SDS Number:
1.1	11/18/2015	400001020142

Date of last issue: 11/13/2015 Date of first issue: 11/13/2015

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Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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