## SAFETY DATA SHEET



### **Section 1. Identification**

Product identifier : ADDITIN RC 5661 A

Material Number : 57258324

Identified uses: Additive for lubricantsSupplier/Manufacturer: LANXESS Corporation

Rhein Chemie Additives 111 RIDC Park West Drive Pittsburgh, PA 15275-1112

USA

For information: US/Canada (800) LANXESS

International +1 412 809 1000

In case of emergency : Chemtrec (800) 424-9300

International (703) 527-3887

Lanxess Emergency Phone (800) 410-3063.

## Section 2. Hazards identification

**HAZCOM Standard Status** 

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Physical state** 

: Liquid.

Color

: Amber.

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION. - Category 1

TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (brain, kidneys and

liver) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 7.5%

Hazard pictograms







Signal word

Danger

**Hazard statements** 

: Causes severe skin burns and eye damage. May cause an allergic skin reaction. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (brain, kidneys, liver)

Hazard Not Otherwise Classified (HNOC) Precautionary statements : Causes digestive tract burns. Causes respiratory tract burns.

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves/clothing and eye/face protection. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

ADDITIN RC 5661 A 57258324 Version 2 **1/13** 

#### Section 2. Hazards identification

#### Response

: Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

## Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Supplemental label elements

: Do not taste or swallow. Wash thoroughly after handling. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Corrosive to digestive tract

## Section 3. Composition/information on ingredients

#### Substance/mixture : Mixture

Ingredient name	%	<b>CAS number</b>
Monoethanolamine Diethylene glycol monobutyl ether Boric acid Alcohols, C11-14-iso-, C13-rich 9-Octadecenoic acid, 12-hydroxy-, (9Z,12R)-	10 - <20 5 - <10 5 - <10 5 - <10 <5	141-43-5 112-34-5 10043-35-3 68526-86-3 141-22-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

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

Eye contact

: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. In case of contact with eyes, flush eyes with plenty of water for at least 30 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. If not breathing, if breathing is irregulor or respiratory arrest occurs, provide artifical respiration, or oxygen by a trained professional, using a pocket type respirator.

**Skin contact** 

: In case of contact, flush skin with plenty of water for at least 30 minutes. Get medical attention immediately. Immediately remove contaminated clothing and shoes. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical

## Section 4. First aid measures

attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation**: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system.

**Skin contact**: Causes severe burns. May cause an allergic skin reaction.

**Ingestion** : Corrosive to the digestive tract. May cause burns to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Corrosive with symptoms of reddening, tearing, swelling, burning and possible

permanent damage.

**Inhalation** : Corrosive with symptoms of coughing, burning, ulceration, and pain.

May cause pulmonary edema with symptoms of breathing difficulty and tightness of

chest.

**Skin contact**: Corrosive with symptoms of reddening, itching, swelling, burning and possible

permanent damage.

Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash

when subsequently exposed to very low levels.

**Ingestion** : Corrosive with symptoms of coughing, burning, ulceration, and pain.

#### Potential chronic health effects

May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Suspected of damaging fertility. Suspected of damaging the unborn child.

Notes to physician

: Treat symptomatically. No specific treatment.

**Protection of first-aiders** 

: If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Water runoff from fire fighting may be corrosive. Vapors may form explosive mixtures with air.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

ADDITIN RC 5661 A 57258324 Version 2 3/13

### Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

## Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.

#### Conditions for safe storage:

Store between the following temperatures: 0 to 50°C (32 to 122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 8. Exposure controls/personal protection

#### Occupational exposure limits

Ingredient name	Exposure limits
Monoethanolamine	ACGIH TLV (United States, 4/2014).
	TWA: 3 ppm 8 hours.
	TWA: 7.5 mg/m³ 8 hours.
	STEL: 6 ppm 15 minutes.
	STEL: 15 mg/m³ 15 minutes.
	OSHA PEL (United States, 2/2013).
	TWA: 3 ppm 8 hours.
	TWA: 6 mg/m <sup>3</sup> 8 hours.
Diethylene glycol monobutyl ether	ACGIH TLV (United States, 4/2014).
, , ,	TWA: 10 ppm 8 hours. Form: Inhalable
	fraction and vapor
Boric acid	ACGIH TLV (United States, 4/2014).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction

## Section 8. Exposure controls/personal protection

STEL: 6 mg/m3 15 minutes. Form: Inhalable

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### **Personal protection**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Respiratory protection**

: 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. A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.

#### **Skin protection Eye/face protection**

- : Permeation resistant clothing and foot protection. Permeation resistant gloves. : chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face
- respirator may be required instead. If contact with product is possible, wear safety glasses with side shields.

: Not available. **Medical Surveillance** 

## Section 9. Physical and chemical properties

**Physical state** : Liquid. Color Amber.

Odor Characteristic. Not available. **Odor threshold** pН Not available. **Boiling point** Not available. **Melting point** Not available. Flash point : Not available. **Evaporation rate** Not available. **Explosion limits** Not available. Vapor pressure Not available. **Density** 1 q/cm<sup>3</sup> Specific gravity (Relative Not available.

density)

Partition coefficient: n-

octanol/water

Not available.

Vapor density Not available. **Viscosity** Not available. **Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available.

ADDITIN RC 5661 A 2 5/13 57258324 Version

## Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous

. The product is stable

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** 

: Extremes of temperature and direct sunlight.

Incompatible materials

: Reducing agents, oxidizing agents, acids and bases

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

## **Section 11. Toxicological information**

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system.

**Skin contact**: Causes severe burns. May cause an allergic skin reaction.

**Ingestion** : Corrosive to the digestive tract. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Corrosive with symptoms of reddening, tearing, swelling, burning and possible

permanent damage.

**Inhalation** : Corrosive with symptoms of coughing, burning, ulceration, and pain.

May cause pulmonary edema with symptoms of breathing difficulty and tightness of

chest.

**Skin contact**: Corrosive with symptoms of reddening, itching, swelling, burning and possible

permanent damage.

Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash

when subsequently exposed to very low levels.

**Ingestion** : Corrosive with symptoms of coughing, burning, ulceration, and pain.

Potential chronic health effects

**Short term exposure** 

Potential immediate : Not available.

effects

Long term exposure

Potential delayed effects : Not available.

General: May cause damage to organs through prolonged or repeated exposure. Once sensitized,

a severe allergic reaction may occur when subsequently exposed to very low levels.

Suspected of damaging fertility. Suspected of damaging the unborn child.

Carcinogenicity : No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity**: May damage the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : May damage fertility.

Information on toxicological effects

**Acute toxicity** 

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure	Test
Monoethanolamine	LD50 Oral	Rat	1515 mg/kg	-	-
Diethylene glycol monobutyl	LD50 Oral	Rat - Male,	>5000 mg/kg	-	-
ether		Female			
Boric acid	LD50 Oral	Mouse	3450 mg/kg	-	-
	LD50 Oral	Rat	2660 mg/kg	-	-
Alcohols, C11-14-iso-,	LD50 Oral	Rat	>2000 mg/kg	-	-
C13-rich					
Monoethanolamine	LD50 Dermal	Rabbit	1025 mg/kg	-	-
Diethylene glycol monobutyl ether	LD50 Dermal	Rabbit	2764 mg/kg	-	-
Boric acid	LD50 Dermal	Rabbit	>2000 mg/kg	-	-
Alcohols, C11-14-iso-, C13-rich	LD50 Dermal	Rat	>2000 mg/kg	-	-
Diethylene glycol monobutyl ether	LC50 Inhalation Vapor	Rat	>29 mg/l	2 hours	-

#### **Irritation/Corrosion**

#### **Conclusion/Summary**

Skin : Monoethanolamine:corrosive

Diethylene glycol monobutyl ether:Slight irritant

Boric acid:mild skin irritation, Rabbit

Eyes : Monoethanolamine: SERIOUS EYE DAMAGE/ EYE IRRITATION

Diethylene glycol monobutyl ether:Irritant. Boric acid:mild eye irritation, Rabbit

**Respiratory**: Monoethanolamine:Irritant.

#### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Diethylene glycol monobutyl ether	skin	Guinea pig	Not sensitizing
Boric acid	skin	Guinea pig	Not sensitizing

Skin : 9-Octadecenoic acid, 12-hydroxy-, (9Z,12R)-:Sensitizing

#### **Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Diethylene glycol monobutyl ether	Sub-chronic NOAEL Oral	Rat - Male, Female	250 mg/kg bw/ day	90 days
	Sub-chronic NOAEL Dermal	Rat - Male, Female	<200 mg/kg bw/ day	90 days
	Sub-chronic NOAEL Inhalation Vapor	Rat	14 ppm Highest producible concentration.	90 days
Boric acid	Chronic NOAEL Oral	Rat - Male, Female	149 mg/kg	90 days; daily

#### **Mutagenicity**

## **Section 11. Toxicological information**

Product/ingredient name	Test	Experiment	Result
Diethylene glycol monobutyl ether	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative
		Subject: Bacteria	
	OECD 473 <i>In vitro</i> Mammalian	Experiment: In vitro	Negative
	Chromosomal Aberration Test		
		Subject: Mammalian-Animal	
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro	Negative
		Subject: Mammalian-Animal	
	OECD 475 Mammalian Bone Marrow Chromosomal Aberration Test	Experiment: In vivo	Negative
		Subject: Mammalian-Animal	
Boric acid	Ames test	Experiment: In vitro Subject: Bacteria	Negative
	Micronucleus assay	Metabolic activation: +/- Experiment: In vivo Subject: Mammalian-Animal	Negative

### Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Boric acid	Negative - Oral -	Mouse - Male,	-	2 years
		Female		

#### **Conclusion/Summary**

: Nitrosamines may be formed with nitrates or nitrous acid under certain conditions . Nitrosamines have shown carcinogenic effects in animal tests.

Product/ingredient name	CAS#	IARC	NTP	OSHA
Monoethanolamine Diethylene glycol monobutyl ether Boric acid Alcohols, C11-14-iso-, C13-rich 9-Octadecenoic acid, 12-hydroxy-, (9Z, 12R)-	141-43-5	Not classified.	Not classified.	Not classified.
	112-34-5	Not classified.	Not classified.	Not classified.
	10043-35-3	Not classified.	Not classified.	Not classified.
	68526-86-3	Not classified.	Not classified.	Not classified.
	141-22-0	Not classified.	Not classified.	Not classified.

#### **Reproductive toxicity**

Product/ingredient name	Effects	Species	Dose	Exposure
Diethylene glycol monobutyl ether		Rat - Male, Female	Oral: 2000 mg/ kg NOAEL x	daily
Boric acid		Rat - Male, Female	pre-mating Oral: <21 mg/kg NOAEL	-

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Diethylene glycol monobutyl ether	Negative - Oral		633 mg/kg NOAEL	20 days; daily

#### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Name	Category	Route of	Target organs
		exposure	
Diethylene glycol monobutyl ether Boric acid	0 ,		Narcotic effects Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	3 3 3	Route of exposure	Target organs
Diethylene glycol monobutyl ether Boric acid	Category 2 Category 2	Not determined Not determined	kidneys brain, kidneys and liver

#### **Acute toxicity estimates**

Route	ATE value (Acute Toxicity Estimates)
Oral	8543.4 mg/kg
Dermal	5960.3 mg/kg

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
Monoethanolamine	-	Acute EC50 65 mg/l	Daphnia - Daphnia	48 hours
	-	Acute IC50 2.5 mg/l	magna Algae - Selenastrum	72 hours
	-	Acute LC50 349 mg/l	capricornutum Fish - Cyprinus carpio	96 hours
	-	Acute NOEC 0.85 mg/l	Daphnia - Daphnia magna	21 days
	-	Chronic NOEC 1 mg/l	Algae - Selenastrum	72 hours
	-	Chronic NOEC 1.2 mg/l	capricornutum Fish - Oryzias latipes	30 days
Diethylene glycol monobutyl ether	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC0 >1995 mg/l	Bacteria - Activated sludge	30 minutes
	-	Acute EC50 2850 mg/l	Daphnia - Daphnia magna	24 hours
	-	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
	-	Acute IC50 >100 mg/l	Algae - Scenedesmus subspicatus	96 hours
	-	Acute LC50 1300 mg/l	Fish - Lepomis macrochirus	96 hours
	-	Acute NOEC >100 mg/l	Algae - Scenedesmus	96 hours
	-	Acute NOEC >100 mg/l	subspicatus Daphnia - Daphnia magna	48 hours
Boric acid	_	Acute EC50 133 mg/l	Daphnia	48 hours
505 40/4	-	Acute LC50 229 mg/l	Algae - Pseudokirchneriella	72 hours
	-	Acute LC50 >800 mg/l	subcapitata Fish	96 hours

ADDITIN RC 5661 A 57258324 Version 2 **9/13** 

# Section 12. Ecological information

	-	Acute LC50 456 mg/l	Fish - Pimephales	96 hours
Alashala C44 44 isa			promelas	40 h a
Alcohols, C11-14-iso-, C13-rich	-		Daphnia - Daphnia	48 hours
C 13-1ICII	-		magna Fish - Danio rerio	96 hours

**Conclusion/Summary** 

: Not available.

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Monoethanolamine	OECD 301A Ready Biodegradability - DOC Die-Away Test	>90 % - Readily - 28 days	-	-
Diethylene glycol monobutyl ether	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	99 % - Inherent - 8 days	-	-
	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	92 % - Readily - 28 days	-	-
	OECD 301C Ready Biodegradability - Modified MITI Test (I)	85 % - Readily - 28 days	-	-

#### **Conclusion/Summary**

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Monoethanolamine Diethylene glycol monobutyl ether	-	- 50%; 11 day(s)	Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Monoethanolamine Diethylene glycol monobutyl ether	-1.31 0.96	- <3	low low
Alcohols, C11-14-iso-, C13-rich	5.6 to 6	-	high

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.

## Section 13. Disposal considerations

**RCRA** classification

: : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

## **Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1760	CORROSIVE LIQUID, N.O.S. (AMINOETHANOL, ISOTRIDECANOL)	8	III	omersh 8	IB3, T7, TP1, TP28
IMDG Class	UN1760	CORROSIVE LIQUID, N.O.S. (AMINOETHANOL, ISOTRIDECANOL)	8	III	¥2>	Emergency schedules (EmS) F-A, S-B
IATA-DGR Class	UN1760	Corrosive liquid, n.o.s. (AMINOETHANOL, ISOTRIDECANOL)	8	III	¥2>	Passenger aircraft 852: 5 L Cargo aircraft 856: 60 L

PG\*: Packing group

**RQ** : 0 lbs

## Section 15. Regulatory information

**SARA 311/312** : Immediate (acute) health hazard

: None

Delayed (chronic) health hazard

**SARA Title III Section 302 Extremely Hazardous** 

**Substances** 

Ingredient name **CAS** number **Concentration (%)** 

**SARA Title III Section 313** : Diethylene glycol monobutyl ether 112-34-5 5 - 10%

**Toxic Chemicals** 

**Ingredient name CAS** number RQ

**US EPA CERCLA** : Diethylene glycol monobutyl ether 112-34-5 NO\_RQ

**Hazardous Subtances (40** 

**CFR 302.4)** 

State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropraite agency in your state.

**Ingredient name CAS** number **State Code** Concentration (%)

ADDITIN RC 5661 A 2 11/13 57258324 Version

## Section 15. Regulatory information

Monoethanolamine	141-43-5	MA - S, NJ - HS, PA - RTK HS	10 - 15%
triethanolamine	102-71-6	MA - S, NJ - HS, PA - RTK HS	5 - 10%
Dipropylene glycol monobutyl ether	29911-28-2	MA - S, NJ - HS, PA - RTK HS	3 - 5%
Diethylene glycol monobutyl ether	112-34-5	NJ - HS, PA - RTK HS	5 - 10%
Boric acid	10043-35-3	NJ - HS	5 - 10%
Water	7732-18-5		19 - 25%
Tall oil	8002-26-4		10 - 15%

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS Pennsylvania Special Hazardous Substances: PA - Special HS

#### California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

U.S. Toxic Substances : Listed on the TSCA Inventory.

**Control Act** 

## **Section 16. Other information**

Hazardous Material Information System



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme \*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

National Fire Protection Association (U.S.A.)



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Date of issue : 07-21-2015 Date of previous issue : 06-03-2015

Version : 2

Product Safety and Regulatory Affairs

Indicates information that has changed from previously issued version.

#### **Notice to reader**

## **Section 16. Other information**

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of LANXESS Corporation. The information in this SDS relates only to the specific material designated herein. LANXESS Corporation assumes no legal responsibility for use of or reliance upon the information in this SDS.