HALLIBURTON

SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

BARACOR® 95

Revision Date: 15-Sep-2015 Revision Number: 41

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

1.1. Product Identifier

Product Name BARACOR® 95 Internal ID Code HM003499

Contains Monoethanolamine

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

Recommended Use pH Control

Sector of use Refer to the Annex for a listing of uses.

1.3. Details of the supplier of the safety data sheet

Halliburton Manufacturing Services, Ltd. Halliburton House, Howemoss Crescent

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN United Kingdom

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

1.4. Emergency telephone number

+44 8 08 189 0979 / 1-760-476-3961

| Emergency telephone - §4 | 45 - (EC)1272/2008 | | | | | | |
|--------------------------|---|--|--|--|--|--|--|
| Europe | 112 | | | | | | |
| Croatia | Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health) | | | | | | |
| Cyprus | +210 7793777 | | | | | | |
| Denmark | Poison Control Hotline (DK): +45 82 12 12 12 | | | | | | |
| France | ORFILA (FR): + 01 45 42 59 59 | | | | | | |
| Germany | Poison Center Berlin (DE): +49 030 30686 790 | | | | | | |
| Italy | Poison Center, Milan (IT): +39 02 6610 1029 | | | | | | |
| Netherlands | National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals) | | | | | | |
| Norway | Poisons Information (NO):+ 47 22 591300 | | | | | | |
| Poland | Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97 | | | | | | |
| Romania | +40 21 318 36 06 | | | | | | |
| Spain | Poison Information Service (ES): +34 91 562 04 20 | | | | | | |
| United Kingdom | NHS Direct (UK): +44 0845 46 47 | | | | | | |

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

| REGOLATION (EG) NO 1212/2000 | |
|-------------------------------------|-----------------------|
| Acute Oral Toxicity | Category 4 - (H302) |
| Acute Toxicity - Dermal | Category 4 - (H312) |
| Acute Inhalation Toxicity - Vapors | Category 4 - (H332) |
| Skin Corrosion / irritation | Category 1 B - (H314) |
| Serious Eye Damage / Eye Irritation | Category 1 - (H318) |

| Specific Target Organ Toxicity - (Single Exposure) | Category 3 - (H335) |
|--|---------------------|
| Chronic Aquatic Toxicity | Chronic 3 - (H412) |

2.2. Label Elements

Hazard Pictograms



Signal Word **Danger**

Hazard Statements

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Contains

Substances CAS Number Monoethanolamine 141-43-5

2.3. Other Hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on Ingredients

Mixture 3.2. Mixtures

| Substances | EINECS | CAS Number | PERCENT (w/w) | EU - CLP Substance Classification | REACH No. |
|------------------|-----------|---------------|------------------|---|------------------|
| Monoethanolamine | 205-483-3 | 141-43-5 | 60 - 100% | Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314) Eye Corr. 1 (H318) STOT SE 3 (H335) Aquatic Chronic 3 (H412) | 01-2119486455-28 |

For the full text of the H-phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled, move victim to fresh air and seek medical attention. Inhalation

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of

Page 2/9

water for at least 15 minutes and get medical attention immediately after

flushina.

Skin In case of contact, immediately flush skin with plenty of soap and water for at

least 15 minutes. Get medical attention. Remove contaminated clothing and

launder before reuse.

Ingestion Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical

attention.

<u>4.2. Most Important symptoms and effects, both acute and delayed</u>
Causes severe eye irritation which may damage tissue. Causes severe skin irritation with tissue destruction. Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled. May cause respiratory irritation.

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

Treat symptomatically **Notes to Physician**

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

5.2. Special hazards arising from the substance or mixture

Special Exposure Hazards

Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce harmful gases. Do not allow runoff to enter waterways.

5.3. Advice for firefighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation. Evacuate all persons from the area.

See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas. Consult local authorities.

6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

6.4. Reference to other sections

See Section 8 and 13 for additional information.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Store away from acids. Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 36 months.

7.3. Specific End Use(s)

Please refer to the attached Annex for a listing of exposure scenarios. **Exposure Scenario**

Other Guidelines No information available

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Exposure Limits

| Substances CAS Number | | EU | UK | Netherlands | France |
|-----------------------|----------|-----------------------------|-----------------------------|-----------------------------|--------|
| Monoethanolamine | 141-43-5 | TWA: 1 ppm | TWA: 1 ppm | TWA: 2.5 mg/m ³ | 1 ppm |
| | | TWA: 2.5 mg/m ³ | TWA: 2.5 mg/m ³ | STEL: 7.6 mg/m ³ | |
| | | STEL: 3 ppm | STEL: 3 ppm | _ | |
| | | STEL: 7.6 mg/m ³ | STEL: 7.6 mg/m ³ | | |

| Substances | CAS Number | Germany | Spain | Portugal | Finland |
|------------------|------------|--|--|--|--|
| Monoethanolamine | 141-43-5 | TWA: 2 ppm TWA: 5.1 mg/m ³ | TWA: 1 ppm TWA: 2.5 mg/m ³ | TWA: 1 ppm TWA: 2.5 mg/m ³ | TWA: 1 ppm TWA: 2.5 mg/m ³ |
| | | | 3 ppm STEL [VLA-EC]; 7.5 mg/m ³ STEL [VLA-EC] | STEL: 3 ppm STEL: 7.6 mg/m ³ | STEL: 3 ppm STEL: 7.6 mg/m³ |

| Substances | ostances CAS Number | | Ireland | Switzerland | Norway |
|------------------|---------------------|--|--|---|--|
| Monoethanolamine | 141-43-5 | TWA: 1 ppm TWA: 2.5 mg/m³ STEL" 3 ppm STEL" 7.6 mg/m³ | 1 ppm TWA; 2.5 mg/m³ TWA 3 ppm STEL; 7.6 mg/m³ STEL | TWA: 2 ppm TWA: 5 mg/m³ STEL: 4 ppm STEL: 10 mg/m³ | TWA: 1 ppm TWA: 2.5 mg/m³ STEL: 3 ppm STEL: 5 mg/m³ |

| Substances | CAS Number | Italy | Poland | Hungary | Czech Republic |
|------------------|------------|--|---|---|----------------------------|
| Monoethanolamine | 141-43-5 | TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ | TWA: 2.5 mg/m ³ STEL: 7.5 mg/m ³ | TWA: 2.5 mg/m ³ STEL: 7.6 mg/m ³ | TWA: 2.5 mg/m ³ |

| Substances | CAS Number | Denmark | Romania | Croatia | Cyprus |
|------------------|------------|--|--|--|--|
| Monoethanolamine | 141-43-5 | TWA: 1 ppm TWA: 2.5 mg/m ³ | TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ | TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ | TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ |

Derived No Effect Level (DNEL)

Worker

| Substances | Long-term | Acute / short | Long-term | Acute / short | Long-term | Acute / short | Long-term | Acute / short | Hazards for |
|------------------|------------------------------------|---------------|------------------------------|---------------|----------------------|---------------|----------------|---------------|-----------------------------|
| | systemic effects, Inhalation | exposure - | local effects, Inhalation | | systemic effects, | exposure - | local effects, | | the eyes - local effects |
| Monoethanolamine | Not available | Not available | 3.3 mg/m ³ | Not available | 1 mg/kg bw/day | Not available | Not available | Not available | Not available |

General Population

| Substances | Long-term | Acute / | Long-term | Acute / | Long-term | Acute / | Long-term | Acute / | Long-term | Acute / | Hazards |
|-----------------|------------|------------|---------------------|------------|------------|------------|------------|------------|------------|------------|-----------|
| | exposure - | short term | exposure - | short term | exposure - | short term | exposure - | short term | exposure - | short term | for the |
| | systemic | exposure - | local | exposure - | systemic | exposure - | local | exposure - | systemic | exposure - | eyes - |
| | effects, | systemic | effects, | local | effects, | systemic | effects, | local | effects, | local | local |
| | Inhalation | effects, | Inhalation | effects, | Dermal | effects, | Dermal | effects, | Oral | effects, | effects |
| | | Inhalation | | Inhalation | | Dermal | | Dermal | | Oral | |
| Monoethanolamin | Not | Not | 2 mg/m ³ | Not | 0.24 | Not | Not | Not | 3.75 | Not | Not |
| е | available | available | | available | mg/kg | available | available | available | mg/kg | available | available |
| | | | | | bw/day | | | | bw/day | | |

Predicted No Effect Concentration (PNEC)

| i icaictea ite Lii | | | , | | | | | | |
|--------------------|------------|--------------|---------------|-----------|--------------|-------------|---------------|-------------|---------------|
| Substances | Freshwater | Marine water | Intermittent | Sewage | Sediment | Sediment | Air | Soil | Secondary |
| | | | release | treatment | (freshwater) | (marine | | | poisoning |
| | | | | plant | | water) | | | |
| Monoethanolamine | 0.085 mg/L | 0.18 mg/L | Not available | 100 mg/L | 0.425 mg/kg | 0.145 mg/kg | Not available | 0.035 mg/kg | Not available |
| | _ | | | _ | dw | dw | | dw | i |

8.2. Exposure controls

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

In high concentrations, supplied air respirator or a self-contained breathing apparatus.

(EN137:2006, 2)

Hand Protection Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct

contact (recommended: protection index 6, corresponding to > 480 minutes permeation

time as per EN 374): Nitrile gloves. (>= 0.35 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Manufacturer's directions for use should be

observed because of great diversity of types.

Skin Protection Rubber apron. Rubber boots

Eye ProtectionChemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions**Eyewash fountains and safety showers must be easily accessible.

Environmental Exposure Controls No information available

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Colorless

Odor: Amine Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ - Method

nH: 12

Freezing Point/Range -13 °C

Melting Point/RangeNo data availableBoiling Point/Range130 °C / 266 °FFlash Point96 °C / 205 °F PMCC

Flammability (solid, gas)

upper flammability limit

lower flammability limit

No data available

No data available

Evaporation rate 0.1

 Vapor Pressure
 0.2 mmHg @ 20°C

 Vapor Density
 2.1 (air = 1)

Specific Gravity 1.02 Water Solubility Miscibl

Water Solubility Miscible with water Solubility in other solvents No data available

Partition coefficient: n-octanol/water -1.9

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

9.2. Other information

VOC Content (%) No data available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

Strong acids. Strong oxidizers.

10.6. Hazardous Decomposition Products

Ammonia. Carbon monoxide and carbon dioxide. Hydrocarbons.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

Inhalation Harmful if inhaled. Causes severe respiratory irritation.

Eye Contact Causes eye burns.

Skin Contact Causes burns. Harmful if absorbed through the skin.

Ingestion Causes burns of the mouth, throat and stomach. Harmful if swallowed.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are

chronic health hazards.

Toxicology data for the components

| Substances | CAS Number | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------|---------------|---|--|-----------------------|
| Monoethanolamine | 141-43-5 | 1089 mg/kg (Rat) | 2504 mg/kg (Rabbit) | > 2.4 mg/L (Rat) 4h |
| Substances | CAS Number | Skin corrosion/irritation | | |
| Monoethanolamine | 141-43-5 | Skin, rabbit: Corrosive to skin | | |
| Substances | CAS Number | Eye damage/irritation | | |
| Monoethanolamine | 141-43-5 | Eye, rabbit: Corrosive to eyes | | |
| Substances | CAS Number | Skin Sensitization | | |
| Monoethanolamine | 141-43-5 | Did not cause sensitization on laboratory animals (guinea pig) | | |
| Substances | CAS Number | Respiratory Sensitization | | |
| Monoethanolamine | 141-43-5 | No information available | | |
| Substances | CAS Number | Mutagenic Effects | | |
| Monoethanolamine | 141-43-5 | In vivo tests did not show mutage | nic effects. In vitro tests did not sh | now mutagenic effects |
| Substances | CAS Number | Carcinogenic Effects | | |
| Monoethanolamine | 141-43-5 | No information available. | | |
| Substances | CAS Number | Reproductive toxicity | | |
| Monoethanolamine | 141-43-5 | Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. | | |
| Substances | CAS Number | STOT - single exposure | | |
| Monoethanolamine | 141-43-5 | May cause respiratory irritation. | | |
| Substances | CAS Number | STOT - repeated exposure | | |
| Monoethanolamine | 141-43-5 | No significant toxicity observed in animal studies at concentration requiring classification. | | |
| Substances | CAS Number | Aspiration hazard | | |
| Monoethanolamine | 141-43-5 | Not applicable | | |

SECTION 12: Ecological Information

12.1. Toxicity
Ecotoxicity Effects

·

| Substances | CAS Number | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to Invertebrates |
|------------------|---------------|---|--|-------------------------------|---|
| Monoethanolamine | 141-43-5 | EC50 (72h) 2.5 mg/L (Pseudokirchnerella subcapitata) EC50 (72h) 24.70 mg/L (Phaeodactylum tricornutum) | LC50 (96h) 170 mg/L (Carassius auratus) NOEC (14d) > 100 mg/L (Oryzias latipes) | | EC50 (48h) 65 mg/L (Daphnia magna) NOEC (21d) 0.85 mg/L (Daphnia magna) EC50 (72h) 27.57 mg/L (Crassostrea gigas) EC50 (72h) 18.17 mg/L (Mytilus galloprovincialis) EC50 (72h) 43 mg/L (Artemia franciscana) |

12.2. Persistence and degradability

| | CAS Number | Persistence and Degradability |
|------------------|------------|-----------------------------------|
| Monoethanolamine | 141-43-5 | Readily biodegradable (92% @ 28d) |

12.3. Bioaccumulative potential

| Substances | CAS Number | Log Pow |
|------------------|------------|-----------------|
| Monoethanolamine | 141-43-5 | Log Pow = -1.91 |
| | | Log Pow = 2.34 |

12.4. Mobility in soil

| Substances | CAS Number | Mobility |
|------------------|------------|--------------|
| Monoethanolamine | 141-43-5 | KOC = 0.2725 |
| | | KOC = 1.167 |

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

| Substances | PBT and vPvB assessment |
|------------------|-------------------------|
| Monoethanolamine | Not PBT/vPvB |

12.6. Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Disposal Method

Contaminated Packaging

Disposal should be made in accordance with federal, state, and local regulations.

Follow all applicable national or local regulations.

SECTION 14: Transport Information

IMDG/IMO

UN Number: UN2491

UN Proper Shipping Name: Ethanolamine Solution

Transport Hazard Class(es): 8
Packing Group: |||

Environmental Hazards: Not applicable

<u>RID</u>

UN Number: UN2491

UN Proper Shipping Name: Ethanolamine Solution

Transport Hazard Class(es): 8
Packing Group: 8

Environmental Hazards: Not applicable

<u>ADR</u>

UN Number: UN2491

UN Proper Shipping Name: Ethanolamine Solution

Transport Hazard Class(es): 8
Packing Group: |||

Environmental Hazards: Not applicable

IATA/ICAO

UN Number: UN2491

UN Proper Shipping Name: Ethanolamine Solution

Transport Hazard Class(es): 8
Packing Group: |||

Environmental Hazards: Not applicable

14.1. UN Number: UN2491

14.2. UN Proper Shipping Name: Ethanolamine Solution

14.3. Transport Hazard Class(es): 8

14.4. Packing Group:

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User: None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

EINECS Inventory This product, and all its components, complies with EINECS

US TSCA Inventory

All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

WGK 1: Low hazard to waters.

15.2. Chemical Safety Assessment

Yes

SECTION 16: Other Information

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful 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

Key or legend to abbreviations and acronyms

bw – body weight

CAS - Chemical Abstracts Service

 ${\sf CLP-REGULATION\:(EC)\:No\:1272/2008\:OF\:THE\:EUROPEAN\:PARLIAMENT\:AND\:OF\:THE\:COUNCIL\:on\:Classification,}$

Labelling and Packaging of substances and mixtures

EC - European Commission

EC10 - Effective Concentration 10%

EC50 - Effective Concentration 50%

EEC - European Economic Community

ErC50 - Effective Concentration growth rate 50%

IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL – International Convention for the Prevention of Pollution from Ships

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PBT - Persistent Bioaccumulative and Toxic

PC - Chemical Product category

PEL - Permissible Exposure Limit

ppm – parts per million

PROC - Process category

REACH - REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL - Short Term Exposure Limit

SU - Sector of Use category

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 15-Sep-2015

Revision Note

SDS sections updated: 1

This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

End of Safety Data Sheet