



# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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MXC Excel X2 blend EU

Revision 1  
Revision date 2021-04-13

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

### 1.1. Product identifier

|              |                       |
|--------------|-----------------------|
| Product name | MXC Excel X2 blend EU |
|--------------|-----------------------|

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

|             |                   |
|-------------|-------------------|
| Description | Foundry material. |
|-------------|-------------------|

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

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| Company                               | Ransom & Randolph                                                |
| Address                               | 3535 Briarfield Boulevard, PO Box 1570<br>Maumee, Ohio 43537 USA |
| Web                                   | www.ransom-randolph.com                                          |
| Telephone                             | +1 (419) 865-9497                                                |
| Fax                                   | +1 (419) 865-9997                                                |
| Email                                 | SDS@ransom-randolph.com                                          |
| Email address of the competent person | dyouel@ransom-randolph.com                                       |

### 1.4. Emergency telephone number


|                            |                                                                      |
|----------------------------|----------------------------------------------------------------------|
| Emergency telephone number | USA +1 419 865 9497                                                  |
| Company                    | Ransom & Randolph Co.<br>08:00-17:00 (US Eastern Std. / GMT minus 5) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

|                                      |                     |
|--------------------------------------|---------------------|
| 2.1.2. Classification - EC 1272/2008 | Skin Sens. 1: H317; |
|--------------------------------------|---------------------|

### 2.2. Label elements

|                                     |                                                                                                                                                                                                                                |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms                   |                                                                                                                                             |
| Signal Word                         | Warning                                                                                                                                                                                                                        |
| Hazard Statement                    | Skin Sens. 1: H317 - May cause an allergic skin reaction.                                                                                                                                                                      |
| Precautionary Statement: Prevention | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary Statement: Response   | P302+P352 - IF ON SKIN: Wash with plenty of water/ .<br>P321 - Specific treatment (see on this label).<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.                                         |
| Precautionary Statement: Disposal   | P501 - Dispose of contents/container to local and national regulations                                                                                                                                                         |

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## Further information

Not applicable. PBT and vPvB assessment.

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

| Chemical Name                                             | Index No.    | CAS No.    | EC No.    | REACH Registration Number | Conc. (%w/w) | Classification                              |
|-----------------------------------------------------------|--------------|------------|-----------|---------------------------|--------------|---------------------------------------------|
| Alkoxylated Decyl Alcohol                                 |              | 37251-67-5 |           |                           | 1 - 10%      | Skin Irrit. 2: H315; Eye Irrit. 2: H319;    |
| 2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol | 613-114-00-6 | 4719-04-4  | 225-208-0 |                           | 0.5 - 1%     | Acute Tox. 4: H302; Skin Sens. 1: H317;     |
| synthetic vitreous fibers                                 |              | 65997-17-3 |           |                           | 1 - 10%      |                                             |
| Ammonia solution                                          | 007-001-01-2 | 1336-21-6  | 215-647-6 |                           | 0 - 0.5%     | Skin Corr. 1B: H314; Aquatic Acute 1: H400; |

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|              |                                                                                 |
|--------------|---------------------------------------------------------------------------------|
| Inhalation   | Move the exposed person to fresh air.                                           |
| Eye contact  | Rinse immediately with plenty of water for 15 minutes holding the eyelids open. |
| Skin contact | Wash with soap and water.                                                       |
| Ingestion    | Drink 1 to 2 glasses of water. DO NOT INDUCE VOMITING.                          |

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

|              |                                           |
|--------------|-------------------------------------------|
| Inhalation   | Irritating to respiratory system.         |
| Eye contact  | Irritating to eyes.                       |
| Skin contact | May cause sensitisation by skin contact.  |
| Ingestion    | May cause irritation to mucous membranes. |

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

|              |                                                           |
|--------------|-----------------------------------------------------------|
| Inhalation   | Seek medical attention.                                   |
| Eye contact  | Seek medical attention.                                   |
| Skin contact | Seek medical attention if irritation or symptoms persist. |
| Ingestion    | Seek medical attention if irritation or symptoms persist. |

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

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

Burning produces irritating, toxic and obnoxious fumes.

## 5.3. Advice for firefighters

Self-contained breathing apparatus. Wear suitable protective clothing.

## SECTION 6: Accidental release measures

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

Wear suitable protective equipment.

## 6.2. Environmental precautions

Do not allow product to enter drains.

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

Absorb with inert, absorbent material. Transfer to suitable, labelled container.

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## 6.4. Reference to other sections

See section [2, 8 &amp; 13] for further information.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Do NOT allow to freeze. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

## 7.3. Specific end use(s)

Foundry material.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Ensure adequate ventilation of the working area.

## 8.1.1. Exposure Limit Values

|                                                       |                                                  |                                                    |
|-------------------------------------------------------|--------------------------------------------------|----------------------------------------------------|
| Ethanolamine (2-Aminoethanol)                         | WEL 8-hr limit ppm: 1                            | WEL 8-hr limit mg/m3: 2.5                          |
|                                                       | WEL 15 min limit ppm: 3                          | WEL 15 min limit mg/m3: 7.6                        |
|                                                       | WEL 8-hr limit mg/m3 total -<br>inhalable dust:  | WEL 15 min limit mg/m3 total -<br>inhalable dust:  |
|                                                       | WEL 8-hr limit mg/m3 total -<br>respirable dust: | WEL 15 min limit mg/m3 total -<br>respirable dust: |
| Mono ethylene glycol<br>(Ethane-1,2-diol particulate) | WEL 8-hr limit ppm: -                            | WEL 8-hr limit mg/m3: 10                           |
|                                                       | WEL 15 min limit ppm: -                          | WEL 15 min limit mg/m3: -                          |
|                                                       | WEL 8-hr limit mg/m3 total -<br>inhalable dust:  | WEL 15 min limit mg/m3 total -<br>inhalable dust:  |
|                                                       | WEL 8-hr limit mg/m3 total -<br>respirable dust: | WEL 15 min limit mg/m3 total -<br>respirable dust: |
| Mono ethylene glycol<br>(Ethane-1,2-diol vapour)      | WEL 8-hr limit ppm: 20                           | WEL 8-hr limit mg/m3: 52                           |
|                                                       | WEL 15 min limit ppm: 40                         | WEL 15 min limit mg/m3: 104                        |
|                                                       | WEL 8-hr limit mg/m3 total -<br>inhalable dust:  | WEL 15 min limit mg/m3 total -<br>inhalable dust:  |
|                                                       | WEL 8-hr limit mg/m3 total -<br>respirable dust: | WEL 15 min limit mg/m3 total -<br>respirable dust: |

## 8.2. Exposure controls



## 8.2.1. Appropriate engineering controls

Ensure adequate ventilation of the working area.

## 8.2.2. Individual protection measures

Apron (Plastic or rubber).

## Eye / face protection

In case of splashing, wear:.. Approved safety goggles.

## Skin protection -

Wear suitable gloves.

## Handprotection

## Respiratory protection

Suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

|                                  |                                        |
|----------------------------------|----------------------------------------|
| <b>Appearance</b>                | Viscous liquid./Paste                  |
| <b>Colour</b>                    | Off white                              |
| <b>Odour</b>                     | Mild/Ammoniacal                        |
| <b>pH</b>                        | 7 - 9                                  |
| <b>Melting point</b>             | Not applicable.                        |
| <b>Freezing Point</b>            | ≈ 0 °C                                 |
| <b>Initial boiling point</b>     | ≈ 100 °C                               |
| <b>Evaporation rate</b>          | Not applicable.                        |
| <b>Flammability (solid, gas)</b> | No data available                      |
| <b>Vapour pressure</b>           | Not applicable.                        |
| <b>Vapour density</b>            | Not applicable.                        |
| <b>Relative density</b>          | 1 - 1.2 (H <sub>2</sub> O = 1 @ 20 °C) |
| <b>Fat Solubility</b>            | Not applicable.                        |
| <b>Partition coefficient</b>     | Not applicable.                        |
| <b>Autoignition temperature</b>  | Not applicable.                        |
| <b>Viscosity</b>                 | No data available                      |
| <b>Explosive properties</b>      | Not applicable.                        |
| <b>Oxidising properties</b>      | Not applicable.                        |
| <b>Solubility</b>                | Miscible in water                      |

## 9.2. Other information

|                                         |                 |
|-----------------------------------------|-----------------|
| <b>Conductivity</b>                     | Not applicable. |
| <b>Surface tension</b>                  | Not applicable. |
| <b>Gas group</b>                        | Not applicable. |
| <b>Benzene Content</b>                  | Not applicable. |
| <b>Lead content</b>                     | Not applicable. |
| <b>VOC (Volatile organic compounds)</b> | Not applicable. |

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

|  |                 |
|--|-----------------|
|  | Not applicable. |
|--|-----------------|

## 10.2. Chemical stability

|  |                                 |
|--|---------------------------------|
|  | Stable under normal conditions. |
|--|---------------------------------|

## 10.3. Possibility of hazardous reactions

|  |                        |
|--|------------------------|
|  | No Significant Hazard. |
|--|------------------------|

## 10.4. Conditions to avoid

|  |                                          |
|--|------------------------------------------|
|  | Direct sunlight. Do NOT allow to freeze. |
|--|------------------------------------------|

## 10.5. Incompatible materials

|  |                  |
|--|------------------|
|  | Sodium chloride. |
|--|------------------|

## 10.6. Hazardous decomposition products

|  |       |
|--|-------|
|  | None. |
|--|-------|

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| <b>Acute toxicity</b> | May cause irritation to skin, eyes and mucous membranes. |
|-----------------------|----------------------------------------------------------|

## SECTION 12: Ecological information

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## 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data is available on this product.

## 12.3. Bioaccumulative potential

Does not bioaccumulate.

## Partition coefficient

MXC Excel X2 blend EU Not applicable.

## 12.4. Mobility in soil

Not determined.

## 12.5. Results of PBT and vPvB assessment

Not determined.

## 12.6. Other adverse effects

Not applicable.

**SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Dispose of in compliance with all. local and national regulations.

## Disposal methods

Contact a licensed waste disposal company.

## Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

## Further information

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

**SECTION 14: Transport information**

## 14.1. UN number

The product is not classified as dangerous for carriage.

## 14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

## 14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

## 14.4. Packing group

The product is not classified as dangerous for carriage.

## 14.5. Environmental hazards

The product is not classified as dangerous for carriage.

## 14.6. Special precautions for user

The product is not classified as dangerous for carriage.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

## Further information

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## Further information

|  |                                                          |
|--|----------------------------------------------------------|
|  | The product is not classified as dangerous for carriage. |
|--|----------------------------------------------------------|

## SECTION 15: Regulatory information

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

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Regulations</b> | <p>REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 15.2. Chemical safety assessment

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

## SECTION 16: Other information

## Other information

|                                               |                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Revision</b>                               | This document differs from the previous version in the following areas:<br>12 - 12.1. Toxicity.<br>15 - Regulations.                                                                                                                                                                                                                                                |
| <b>Text of Hazard Statements in Section 3</b> | <p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> |

## Further information

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|