1 Identification

Product identifier

Trade name: **TYTRO SA 530**

SDS ID Number: 3745

Relevant identified uses of the substance or mixture, and uses advised against:

Specialty construction product. Not intended for other uses.

Product category Concrete Admixture

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

GCP Canada, Inc.

294 Clements Road W.

Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts

CAN: 1-905-683-8561 (24 hours)

Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

May be corrosive to metals.

Causes serious eye damage.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

![GHS05](Cont. on page 2)
Trade name: TYTRO SA 530

NFPA ratings (scale 0 - 4)

Health = 3
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 3
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:

| 10043-01-3 | Aluminium sulphate | 30-<40% |

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

After skin contact:

Generally the product does not irritate the skin.
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.
Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.
6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** Avoid release to the environment.

**Methods and material for containment and cleaning up:**
Use neutralizing agent. Dispose contaminated material as waste according to section 13 of the SDS.

**Reference to other sections**
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

**Handling:**

**Precautions for safe handling** Prevent formation of aerosols.

**Information about protection against explosions and fires:** No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Information about storage in one common storage facility:** No special measures required.

**Further information about storage conditions:**
Keep receptacle tightly sealed. May be corrosive to metals.

**Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>10043-01-3 Aluminium sulphate</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td>TLV (USA)</td>
</tr>
</tbody>
</table>

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
Breathing equipment:
Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves
Nitrile rubber.
Rubber or other impervious gloves should be worn to prevent skin contact.

Eye protection:
Safety glasses with side shield protection.

Body protection:
Use personal protective equipment as required.
Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>General Information</th>
<th>Appearance:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form: Liquid</td>
<td></td>
</tr>
<tr>
<td>Color: White</td>
<td></td>
</tr>
<tr>
<td>Odor: Characteristic</td>
<td></td>
</tr>
<tr>
<td>Odor threshold:</td>
<td></td>
</tr>
</tbody>
</table>

| pH-value (-) at 20 °C (68 °F): | 3 |

<table>
<thead>
<tr>
<th>Change in condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range: Undetermined.</td>
</tr>
<tr>
<td>Flash point: Not applicable.</td>
</tr>
</tbody>
</table>

| Flammability (solid, gaseous): | Not applicable. |

<table>
<thead>
<tr>
<th>Ignition temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undetermined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decomposition temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Auto igniting:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Danger of explosion:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product does not present an explosion hazard.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explosion limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower: Not determined.</td>
</tr>
<tr>
<td>Upper: Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOC Content (max):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vapor pressure:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Density: (~) at 20 °C (68 °F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.4 g/cm³ (11.7 lbs/gal)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relative density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vapor density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaporation rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Solubility in / Miscibility with Water:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fully miscible.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Partition coefficient (n-octanol/water):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not determined.</td>
</tr>
</tbody>
</table>
**Trade name:** TYTRO SA 530

**Viscosity:**
- Dynamic at 20 °C (68 °F): 990 mPas
- Kinematic: Not determined.
- Molecular weight: Not applicable.

**Other information:** No further relevant information available.

### 10 Stability and reactivity

**Reactivity**
- Stable under normal conditions.

**Chemical stability**
- **Thermal decomposition:** No decomposition if used according to specifications.

**Possibility of hazardous reactions**
- No dangerous reactions known.

**Conditions to avoid**
- No further relevant information available.

**Incompatible materials:**
- No further relevant information available.

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**
- **LD/LC50 values relevant for classification:**
  - 10043-01-3 Aluminium sulphate
  - Dermal LD50 6,200 mg/kg (microorganisms)

**Primary irritant effect:**
- on the skin: No irritating effect expected
- on the eye: Causes serious eye damage.
- inhalation: No irritating effect expected

**Additional toxicological information:**

**Carcinogenic categories**
- IARC (International Agency for Research on Cancer) Human Carcinogenicity:
  - Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable
  - 7664-93-9 Sulphuric acid 1
  - 111-42-2 Diethanolamine 2B

- NTP (National Toxicology Program)
  - K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic
  - 7664-93-9 Sulphuric acid K

- OSHA-Ca (Occupational Safety & Health Administration)
  - None of the ingredients is listed.

### 12 Ecological information

**Toxicity**
- **Aquatic toxicity:** No further relevant information available.

**Persistence and degradability**
- No further relevant information available.
Safety Data Sheet

Printing date 04/19/2018
Reviewed on 02/22/2018

Trade name: TYTRO SA 530

Behavior in environmental systems:
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.

Additional ecological information:
General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13 Disposal considerations

Disposal methods:
Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:
Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, IMDG, IATA</th>
<th>UN3264</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>DOT</td>
<td>Corrosive liquid, acidic, inorganic, n.o.s. (Aluminium sulphate)</td>
</tr>
<tr>
<td>IMDG, IATA</td>
<td>IMDG, IATA</td>
<td>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate)</td>
</tr>
</tbody>
</table>

Transport hazard class(es)

DOT

- Class: 8 Corrosive substances
- Label: 8

IMDG, IATA

- Class: 8 Corrosive substances
- Label: 8
Trade name: **TYTRO SA 530**

| Packing group | DOT, IMDG, IATA | III 
|---------------|----------------|---------
| Environmental hazards: | Not applicable. | 
| Special precautions for user | Warning: Corrosive substances | 
| EMS Number: | F-A,S-B | 
| Stowage Category | A | 
| Stowage Code | SW2 Clear of living quarters. | 

**Transport/Additional information:**

| IMDG | 
| Limited quantities (LQ) | 5L | 
| Excepted quantities (EQ) | Code: E1 | 
| Maximum net quantity per inner packaging: | 30 ml | 
| Maximum net quantity per outer packaging: | 1000 ml | 

**UN "Model Regulation":**

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINIUM SULPHATE), 8, III

15 Regulatory information

**SARA (Superfund Amendments and Reauthorization Act):**

**Section 302/304 (extremely hazardous substances):**

7664-93-9 Sulphuric acid

**Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

1344-28-1 Aluminium oxide 1.8%

**SARA Section 312/Tier I & II Hazard Categories:**

Physical Hazard - Corrosive to metal
Health Hazard - Serious eye damage or eye irritation

**North America Chemical Inventory Status**

**TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**CEPA (Canadian DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

**Right to Know Ingredient Disclosure:**

1344-28-1 Aluminium oxide
21645-51-2 Aluminium Trihydrate
7732-18-5 Water

**California Proposition 65: (Substances <0.1% unless noted in Section 3):**

Chemicals known to cause cancer:

Quartz (SiO2)

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

**Carcinogenicity Categories**

**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**

Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

Aluminium oxide A4
46.1.12 NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.
If no g/L value is provided this product is not subject to above standard.

16 Other information
The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 04/19/2018 / -
The first date of preparation 10/26/2016
Number of revision times and the latest revision date 1.0 / 02/22/2018