

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

Printing date 11/26/2014

Reviewed on 11/26/2014

**\* 1 Identification**

- **Product identifier**
- **Trade name: TurfRX K+ Flowable**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Redox Chemicals LLC  
130 South 100 West  
PO Box 129  
Burley, ID 83318  
Phone: 208-678-2610  
Fax: 208-677-3609
- **Emergency telephone number:** 208-431-2314

**\* 2 Hazard(s) identification**

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMS-ratings (scale 0 - 4)**



**\* 3 Composition/information on ingredients**

	Soluble Potash (K <sub>2</sub> O)	15-35%
98059-61-1	Phosphate	5-10%

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous Components:** Non-Regulated Material

**\* 4 First-aid measures**

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Remove contaminated clothing. Wash clothing before reuse.  
Immediately wash skin with soap and plenty of water for at least 20 minutes.  
If symptoms persist, consult a doctor.

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- **After eye contact:**  
Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.  
Seek immediate medical advice.
- **After swallowing:** Never give anything by mouth to an unconscious person.
- **Most important symptoms and effects, both acute and delayed**  
Treat symptoms and reduce over-exposure.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**\* 5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

**\* 6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.
- **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**

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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 section 7.
- **Control parameters**
- **Components with occupational exposure limits:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not required.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:** Not required.
- **Body protection:** Wear long-sleeved shirt and long pants. Wash contaminated clothing before reuse.

\* **9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - **Form:** Suspension
  - **Color:** Light brown
  - **Odor:** Characteristic
  - **Odor threshold:** Not determined.
  - **pH-value @ 20 °C (68 °F):** 10.5-12.0
- **Change in condition**
  - **Melting point/Melting range:** Not determined.
  - **Boiling point/Boiling range:** Not determined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:**
  - **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Vapor pressure:** Not determined.
- **Density:**
  - **Relative density** Not determined.
  - **Vapour density** Not determined.
  - **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
  - **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.

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- **Solvent content:**
- Organic solvents:** 0.0 %
- Solids content:** 100 %
- **Other information** No further relevant information available.

**\* 10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** 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:** Alkali metals and alkaline earth metals may cause fires or explosions
- **Hazardous decomposition products:** No dangerous decomposition products known.

**\* 11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** No irritating effect.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**  
None of the ingredients are listed.

Group 1 - Carcinogenic to humans  
 Group 2A - Probably carcinogenic to humans  
 Group 2B - Possibly carcinogenic to humans  
 Group 3 - Not classifiable as to its carcinogenicity to humans  
 Group 4 - Probably not carcinogenic to humans

- **NTP (National Toxicology Program)**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

**\* 12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

\* **13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Smaller quantities can be disposed of with household waste.  
Recycle or dipose with household trash.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

\* **14 Transport information**

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

\* **15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

<b>Section 355 (extremely hazardous substances):</b>	None of the ingredients are listed.
<b>Section 313 (Specific toxic chemical listings):</b>	None of the ingredients are listed.
<b>TSCA (Toxic Substances Control Act):</b>	None of the ingredients is listed.
<b>Proposition 65</b>	
<b>Chemicals known to cause cancer:</b>	None of the ingredients are listed.
<b>Chemicals known to cause reproductive toxicity for females:</b>	None of the ingredients are listed.
<b>Chemicals known to cause reproductive toxicity for males:</b>	None of the ingredients are listed.

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<ul style="list-style-type: none"> <li>· <b>Chemicals known to cause developmental toxicity:</b></li> </ul>		
None of the ingredients are listed.		
<ul style="list-style-type: none"> <li>· <b>Carcinogenic categories</b></li> </ul>		
<ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency)</b></li> </ul>		
None of the ingredients are listed.		
<ul style="list-style-type: none"> <li>· <b>TLV (Threshold Limit Value established by ACGIH)</b></li> </ul>		
None of the ingredients are listed.		
<ul style="list-style-type: none"> <li>· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b></li> </ul>		
None of the ingredients are listed.		
<ul style="list-style-type: none"> <li>· <b>GHS label elements</b> Non-Regulated Material</li> <li>· <b>Hazard pictograms</b> Non-Regulated Material</li> <li>· <b>Signal word</b> Non-Regulated Material</li> <li>· <b>Hazard statements</b> Non-Regulated Material</li> </ul>		
<ul style="list-style-type: none"> <li>· <b>National regulations:</b></li> </ul>		
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.		
<ul style="list-style-type: none"> <li>· <b>State Right to Know</b></li> </ul>		
	Soluble Potash (K <sub>2</sub> O)	15-35%
98059-61-1	Phosphate	5-10%
All ingredients are listed.		
<ul style="list-style-type: none"> <li>· <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.</li> </ul>		

**16 Other information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision** 11/26/2014 / 1
- **Abbreviations and acronyms:**  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)
- **\* Data compared to the previous version altered.**  
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