Safety Data Sheet (SDS)

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

Issue date 02/11/2016 *Reviewed on 02/11/2016*

1 Identification

· ***Product Identifier***

· ***Trade name: TURFRX C-85 Flowable***
· ***Relevant identified uses of the substance or mixture and uses advised against:***
· ***Product Description*** PC12 Fertilizers

· ***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:*** 208-678-2610

2 Hazard(s) Identification

· ***Classification of the substance or mixture:***
Eye Irrit. 2B H320 Causes eye irritation.

· ***Label elements:***
· ***GHS label elements***
The product is classified and labeled according to the Globally Harmonized System (GHS).
· ***Hazard pictograms:*** Non-Regulated Material
· ***Signal word:*** Warning
· ***Hazard statements:***
H320 Causes eye irritation.
· ***Precautionary statements:***

P264	Wash thoroughly after handling.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

· ***Unknown acute toxicity:***
30 % of the mixture consists of component(s) of unknown toxicity.
· ***Classification system:***
· ***NFPA ratings (scale 0 - 4)***

Health = 1
Fire = 0
Reactivity = 0

· ***HMIS-ratings (scale 0 - 4)***

Health = 1
Fire = 0
Reactivity = 0

· ***Hazard(s) not otherwise classified (HNOC):*** None known

3 Composition/Information on Ingredients

· ***Chemical characterization: Mixtures***
· ***Description:*** Mixture: consisting of non-regulated material.

(Contd. on page 2)

· **Dangerous Components:**			
479-66-3	Fulvic Acid	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	15-35%
1415-93-6	Humic Acid	STOT SE 3, H335; Eye Irrit. 2B, H320	5-10%

4 First-Aid Measures

· **Description of first aid measures:**
· **General information:**
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Immediately call a doctor.
· **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

· **Extinguishing media:**
· **Suitable extinguishing agents:**
CO_2, 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:**
Mouth respiratory protective device.
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 (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
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

· **Handling**
· **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

(Contd. on page 3)

· ***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:*** Keep receptacle tightly sealed.
· ***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 of this SDS were used as basis.

· ***Exposure controls:***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· ***Breathing equipment:*** Not required.
· ***Protection of hands:*** Not required.
· ***Material of gloves:*** Not required.
· ***Penetration time of glove material:*** Not applicable.
· ***Eye protection:***

Tightly sealed goggles

9 Physical and Chemical Properties

· ***Information on basic physical and chemical properties***
· ***General Information***
· ***Appearance:***

Form:	Liquid
Color:	Dark brown
· ***Odor:***	Characteristic
· ***Odor threshold:***	Not determined.
· ***pH-value @ 20 °C (68 °F):***	10-12
· ***Change in condition***	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
· ***Flash point:***	None

(Contd. on page 4)

· ***Flammability (solid, gaseous):***	Not applicable.
· ***Ignition temperature:***	Not determined
· ***Decomposition temperature:***	Not determined.
· ***Auto igniting:***	Product is not self-igniting.
· ***Danger of explosion:***	Product does not present an explosion hazard.
· ***Explosion limits:***	
Lower:	Not determined.
Upper:	Not determined.
· ***Vapor pressure:***	Not determined.
· ***Density @ 20 °C (68 °F):***	1.10-1.20 g/cm³ (9.18-10.014 lbs/gal)
· ***Relative density:***	Not determined.
· ***Vapor 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.
· ***Solvent content:***	
Organic solvents:	0.0 %
· ***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:*** Strong oxidizing agents.
· ***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:*** Irritating effect.
· ***Additional toxicological information:***
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

(Contd. on page 5)

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**
None of the ingredients are listed.

· **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.
· **Behavior in environmental systems:**
· **Bioaccumulative potential:** No further relevant information available.
· **Mobility in soil:** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
· **Results of PBT and vPvB assessment:**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

· **Waste treatment methods:**
· **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packagings**
· **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

· **UN-Number:**
· **DOT, ADR, IMDG, IATA** Non-Regulated Material
· **UN proper shipping name:**
· **DOT, ADR, IMDG, IATA** Non-Regulated Material
· **Transport hazard class(es):**

· **DOT, ADR, IMDG, IATA**
· **Class:** Non-Regulated Material
· **Packing group:**
· **DOT, ADR, IMDG, IATA** Non-Regulated Material
· **Environmental hazards:** Not applicable.
· **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":** Non-Regulated Material

(Contd. on page 6)

15 Regulatory Information

· ***Safety, health and environmental regulations/legislation specific for the substance or mixture:***
· ***SARA (Superfund Amendments and Reauthorization):***

· ***Section 355 (extremely hazardous substances):***

None of the ingredients are listed.

· ***Section 313 (Specific toxic chemical listings):***

None of the ingredients are listed.

· ***TSCA (Toxic Substances Control Act):***

1415-93-6	Humic Acid

· ***California Proposition 65:***

· ***Chemicals known to cause cancer:***

None of the ingredients are listed.

· ***Chemicals known to cause reproductive toxicity for females:***

None of the ingredients are listed.

· ***Chemicals known to cause reproductive toxicity for males:***

None of the ingredients are listed.

· ***Chemicals known to cause developmental toxicity:***

None of the ingredients are listed.

· ***New Jersey Right-to-Know List:***

None of the ingredients are listed.

· ***New Jersey Special Hazardous Substance List:***

None of the ingredients are listed.

· ***Pennsylvania Special Hazardous Substance List:***

None of the ingredients are listed.

· ***Carcinogenic categories:***

· ***EPA (Environmental Protection Agency):***

None of the ingredients are listed.

· ***TLV (Threshold Limit Value established by ACGIH):***

None of the ingredients are listed.

· ***NIOSH-Ca (National Institute for Occupational Safety and Health):***

None of the ingredients are listed.

· ***GHS label elements***
The product is classified and labeled according to the Globally Harmonized System (GHS).
· ***Hazard pictograms:*** Non-Regulated Material
· ***Signal word:*** Warning
· ***Hazard statements:***
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· ***Precautionary statements:***

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Issue date 02/11/2016 *Reviewed on 02/11/2016*

Trade name: TURFRX C-85 Flowable

· ***National regulations:***
The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· ***Chemical safety assessment:*** A Chemical Safety Assessment has not been carried out.

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:*** 02/11/2016 / -

· ***Abbreviations and acronyms:***

ADR: The 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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity, Hazard Category 4
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· **** Data compared to the previous version altered.***

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