

TI-GrnSurf® LCI

Section-1: Identification

Product trade name: TI-GrnSurf® LCI
Product code: T36-302
Manufacturer/Supplier: TC USA Inc.
34 Clayson Road
Toronto, ON M9M 2G8
Canada
Tel: (+01) 416-741-9264
1-800-918-0066
Fax: (+01) 416-741-6475
E-mail: Not available
Emergency telephone Number: 1-800-424-9300; INTNL: 1-703-527-3887

Section-2: Hazards Identification

Physical Hazards: Not classified

Health Hazards: Skin corrosion / irritation Category - 2
Serious eye damage / eye irritation Category - 1

Environmental Hazards: Hazardous to the aquatic environment, acute hazard Category - 2
Hazardous to the aquatic environment, long-term hazard Category - 3

GHS label elements

Hazard pictograms:



Signal word: Danger

Hazard statements: Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response: Collect spillage. If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse

Additional information

Storage: Store away from incompatible materials, and at between 10 °C and 30 °C. Avoid overheating and freezing.

Section-2: Hazards Identification

Additional information

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section-3: Composition/information on ingredients

Ingredient Name	CAS Number	%
Water	7732-18-5	51 to 85
Mixture of Anionic and Amphoteric Surfactants	Proprietary	15 to 40
Sodium chloride	7647-14-5	≤ 6
Sodium sulphate	7757-82-6	≤ 2
Other components below reportable levels	-----	<1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present, which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section-4: First-aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms / effects, acute and delayed: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Causes Skin irritation and serious eye irritation. May cause redness and pain.

Section-4: First-aid measures

General information: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section-5: Fire-fighting measures

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.

Section-6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section-6: Accidental release measures

Methods and materials for containment and cleaning up

- Large spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, watercourses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Section-7: Handling and storage

- Precautions for safe handling:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- PROTECT FROM FROST. STORE UNDER COVER. Keep away from heat.
Recommended storage temperature: 15°C - 25°C

Section-8: Exposure controls/personal protection

Control parameters

- Occupational exposure limits:** No exposure limits noted for ingredient(s).
- Appropriate engineering controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section-8: Exposure controls/personal protection

Individual protection measures

Eye / face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: nitrile rubber, PVC.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Use a properly fitted; air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section-9: Physical and chemical properties

Appearance

Physical state:	Viscous Liquid
Colour:	Clear, water white .
Odour:	Slight, characteristic
pH;	5.50 to 6.5 (10% in water)
Boiling point:	100 °C (212 °F)
Flash Point:	> 94 °C (>201 °F)
Flammability of the product:	None available
Evaporation Rate:	Estimated slower than ethyl ether
Relative Density:	1.02 to 1.05
Viscosity:	15,000 cPs @ 23 °C, 2,000 cPs @ 40 °C, 600 cPs @ 60 °C

The information presented in this section does not serve as specifications.

Section-10: Stability and reactivity

Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
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Section-10: Stability and reactivity

Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous Reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Strong oxidizing agents. Strong Acids.
Hazardous decomposition products:	Upon decomposition, this product may yield oxides of nitrogen and sulphur, carbon dioxide, and ammonia carbon monoxide and other low molecular weight hydrocarbons.

Section-11: Toxicological information

Information on likely routes of exposure

Ingestion:	May be harmful if swallowed.
Inhalation:	No adverse effects due to inhalation are expected.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics:	Not available.

Information on toxicological effects

Acute toxicity:	Not Classified as dangerous
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Components	Species	Test Results
TI-GrnSurf® LCI		
Dermal	LD ₅₀ (Rabbit)	> 2,000 mg/kg bw
Oral	LD ₅₀ (Rat)	> 2,000 mg/kg bw

The product has not been tested. The information provided in this table is derived from the properties of the individual components.

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/eye irritation:	Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization:	Not available.
Skin sensitization:	This product is not expected to cause skin sensitization.
Germ cell mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Section-11: Toxicological information

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure:	Not applicable.
Specific target organ toxicity - repeated exposure:	Not applicable.
Aspiration hazard:	Not applicable.

Section-12: Ecological information

Eco-toxicity:	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Persistence and degradability:	Readily biodegradable
Bio accumulative potential:	No data available.
Mobility in soil:	No data available.
Other adverse effects:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section-13: Disposal considerations

Disposal instructions:	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section-14: Transport information

DOT:	Not regulated as dangerous goods.
IATA:	Not regulated as dangerous goods.
IMDG:	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	Not available.

Section-14: Transport information

Special precautions for user:

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section-15: Regulatory information

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed

Clean Air Act Section 602 Class I Substances: Not listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304 Extremely Hazardous Substance: No products were found.

SARA 311/312 Hazardous Chemical: Acute Health Hazard

SARA 313 (TRI reporting): Not Regulated

International Inventories

Country(s) / Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
China	Inventory of Existing Cosmetic Ingredients in China (IECIC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) and a "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section-16: Other information, including date of preparation or last revision

Revision Date: 01-Jun-2015
Version Number: 00
Revision: New GHS Format

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