

# SAFETY DATA SHEET



## TRANSMATE™ STERLING WHEEL BRIGHTNER

Version 1.2      Revision Date: 04/26/2023      SDS Number: 600000002113      Date of last issue: 03/23/2023  
Date of first issue: 03/23/2023

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### SECTION 1. IDENTIFICATION

Product name : TM STERLING WHL BRIGHTNER 5 GA  
Product code : TM113-05

#### Manufacturer or supplier's details

Company name of supplier : Niteo Products, LLC  
Address : North American Centre 4711 Yonge Street, 10th Floor Toronto, ON M2N 6K8, Canada  
Email Address : EHS@niteoproducts.com  
Telephone : 1-844-696-4836  
Emergency telephone number : 1-800-424-9300 / 1-703-741-5970

#### Recommended use of the chemical and restrictions on use

Recommended use : CLEANER  
Restrictions on use : Use only outdoors or in a well-ventilated area.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Oral) : Category 4  
Skin corrosion : Category 1B  
Serious eye damage : Category 1  
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Bone, Skeleton)

#### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : Harmful if swallowed.  
Causes severe skin burns and eye damage.  
May cause damage to organs (Bone, Skeleton) through prolonged or repeated exposure if swallowed.

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Precautionary statements : **Prevention:**  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
Get medical advice/ attention if you feel unwell.  
Wash contaminated clothing before reuse.

**Storage:**  
Store locked up.

**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
None known.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Ammonium bifluoride	1341-49-7	8.7526
Nonylphenol polyethoxylate	9016-45-9	2.6308

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### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

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- If on skin, rinse well with water.  
Wash contaminated clothing before re-use.  
If skin irritation persists, call a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.
- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : This product contains fluoride. Acute systemic toxicity is largely dependent upon the total amount of fluoride ion absorbed. Ingestion, significant skin contact or inhalation can cause systemic effects including electrolyte (hypocalcemia, hypomagnesemia, hyperkalemia) and acid-base abnormalities with resulting cardiovascular effects. Repeated exposure and absorption of 10-80 mg of fluoride per day may produce systemic fluorosis.  
Harmful if swallowed.  
Causes serious eye damage.  
May cause damage to organs through prolonged or repeated exposure if swallowed.  
Causes severe burns.

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### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen fluoride  
Carbon oxides
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

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- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
Do not smoke.  
Avoid contact with skin and eyes.  
Dispose of rinse water in accordance with local and national regulations.  
Container hazardous when empty.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.
- Further information on storage stability : No decomposition if stored and applied as directed.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ammonium bifluoride	1341-49-7	TWA	2.5 mg/m <sup>3</sup> (Fluorine)	CA AB OEL
		TWAEV	2.5 mg/m <sup>3</sup> (Fluorine)	CA QC OEL
		TWA	2.5 mg/m <sup>3</sup> (Fluorine)	CA BC OEL
		TWA	2.5 mg/m <sup>3</sup> (Fluorine)	ACGIH

**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Ammonium bifluoride	1341-49-7	Fluoride (Fluorine)	Urine	Prior to shift (16 hours after exposure ceases)	2 mg/l	ACGIH BEI
		Fluoride (Fluorine)	Urine	End of shift (As soon as possible after exposure ceases)	3 mg/l	ACGIH BEI

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**Personal protective equipment**
**Hand protection**

Remarks : Wear resistant gloves (consult your safety equipment supplier). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Discard gloves that show tears, pinholes, or signs of wear.

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate:

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Impervious clothing  
Safety shoes  
Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not smoke.  
When using do not eat or drink.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : purple

Odour : fruity

Odour Threshold : not determined

pH : 4 - 5

Melting point/freezing point : 0 °C

Boiling point/boiling range : 100 °C

Flash point : 100 °C  
Method: closed cup

Evaporation rate : not determined

Flammability (solid, gas) : No data available

Self-ignition : not determined

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : not determined

Relative vapour density : not determined

Density : 1.0354 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : soluble

Partition coefficient: n-octanol/water : not determined

Decomposition temperature : not determined

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Viscosity  
  Viscosity, dynamic                   : not determined  
  
  Viscosity, kinematic                : not determined  
  
Molecular weight                    : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity                               : No decomposition if stored and applied as directed.  
  
Chemical stability                     : No decomposition if stored and applied as directed.  
  
Possibility of hazardous reac-      : No decomposition if stored and applied as directed.  
tions                                        Hazardous polymerisation does not occur.  
  
Conditions to avoid                   : No data available  
  
Incompatible materials               : Strong oxidizing agents  
  
Hazardous decomposition             : Hydrogen fluoride  
products                                    Carbon oxides  
  
Hazardous decomposition             : Nitrogen oxides (NOx)  
products

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity                   : Acute toxicity estimate: 1,430 mg/kg  
Method: Calculation method  
  
Remarks: Causes digestive tract burns.

#### Components:

##### Ammonium bifluoride:

Acute oral toxicity                   : LD50 (Rat): ca. 130 mg/kg

##### Nonylphenol polyethoxylate:

Acute oral toxicity                   : LD50 (Mouse): 4,290 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

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**Skin corrosion/irritation**

Causes severe burns.

**Product:**

Remarks: Causes severe skin burns and eye damage.

**Components:**

**Ammonium bifluoride:**

Result: Corrosive after 3 minutes to 1 hour of exposure

**Nonylphenol polyethoxylate:**

Result: Irritating to skin.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:**

**Ammonium bifluoride:**

Result: Irreversible effects on the eye

**Nonylphenol polyethoxylate:**

Result: Irritating to eyes.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Ammonium bifluoride:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Result: negative

Genotoxicity in vivo : Result: In vivo tests did not show mutagenic effects  
Remarks: Information given is based on data obtained from similar substances.



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### **Nonylphenol polyethoxylate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

May cause damage to organs (Bone, Skeleton) through prolonged or repeated exposure if swallowed.

### **Components:**

#### **Ammonium bifluoride:**

Exposure routes: Ingestion  
Target Organs: Bone, Skeleton  
Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.  
Remarks: Information taken from reference works and the literature.

### **Aspiration toxicity**

Not classified based on available information.

### **Further information**

### **Product:**

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Toxicity**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

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Dispose of as unused product.  
Do not re-use empty containers.

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### SECTION 14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated below) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1760  
Proper shipping name : Corrosive liquid, n.o.s.  
(AMMONIUM BIFLUORIDE)  
Class : 8  
Packing group : II  
Labels : 8  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851

##### IMDG-Code

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(AMMONIUM BIFLUORIDE)  
Class : 8  
Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no

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

Not applicable for product as supplied.

#### National Regulations

##### TDG

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(AMMONIUM BIFLUORIDE)  
Class : 8  
Packing group : II  
Labels : 8  
ERG Code : 154  
Marine pollutant : no

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### SECTION 15. REGULATORY INFORMATION

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### SECTION 16. OTHER INFORMATION

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

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