SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier
Trade name TELAR® XP HERBICIDE
Product code (UVP) 84067172
SDS Number 102000030327
EPA Registration No. 432-1561

Relevant identified uses of the substance or mixture and uses advised against
Use Herbicide
Restrictions on use See product label for restrictions.

Information on supplier
Supplier Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Responsible Department Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.
Emergency Telephone Number (24hr/7 days) 1-800-334-7577
Product Information Telephone Number 1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200
This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards
No particular hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>chlorsulfuron</td>
<td>64902-72-3</td>
<td>75.0</td>
</tr>
<tr>
<td>Lignosulfonic acid, sodium salt, sulfomethylated</td>
<td>68512-34-5</td>
<td>6.0</td>
</tr>
</tbody>
</table>
SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice
When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation
Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Skin contact
Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Ingestion
Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms
To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Treatment
Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable
High volume water jet

Special hazards arising from the substance or mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters
Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information
Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Whenever possible, contain fire-fighting water by diking area with sand or earth.
Flash point not applicable
Autoignition temperature no data available
Lower explosion limit not applicable
Upper explosion limit not applicable
Explosivity no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up
Methods for cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.
Additional advice Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.
Reference to other sections Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling Ensure adequate ventilation. Handle and open container in a manner as to prevent spillage.
Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>10 mg/m³ (TWA)</td>
<td>02 2012</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Sucrose (Total)</td>
<td>57-50-1</td>
<td>10 mg/m³ (REL)</td>
<td>2010</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Sucrose (Respirable.)</td>
<td>57-50-1</td>
<td>5 mg/m³ (REL)</td>
<td>2010</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Sucrose (Respirable fraction.)</td>
<td>57-50-1</td>
<td>5 mg/m³ (PEL)</td>
<td>02 2006</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>Sucrose (Total dust.)</td>
<td>57-50-1</td>
<td>15 mg/m³ (PEL)</td>
<td>02 2006</td>
<td>OSHA Z1</td>
</tr>
<tr>
<td>Sucrose (Respirable fraction.)</td>
<td>57-50-1</td>
<td>5 mg/m³ (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
</tr>
<tr>
<td>Sucrose (Total dust.)</td>
<td>57-50-1</td>
<td>15 mg/m³ (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
</tr>
<tr>
<td>Sucrose (Total dust.)</td>
<td>57-50-1</td>
<td>15 mg/m³ (TWA)</td>
<td>06 2008</td>
<td>TN OEL</td>
</tr>
<tr>
<td>Sucrose (Respirable fraction.)</td>
<td>57-50-1</td>
<td>5 mg/m³ (TWA)</td>
<td>06 2008</td>
<td>TN OEL</td>
</tr>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>5 ug/m³ (AN ESL)</td>
<td>03 2014</td>
<td>TX ESL</td>
</tr>
<tr>
<td>Sucrose</td>
<td>57-50-1</td>
<td>50 ug/m³ (ST ESL)</td>
<td>03 2014</td>
<td>TX ESL</td>
</tr>
</tbody>
</table>

Exposure controls

**Personal protective equipment**
In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection**
When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection**
Chemical resistant nitrile rubber gloves

**Eye protection**
Safety glasses with side-shields

**Skin and body protection**
Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures**
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid
Section 9. Physical and Chemical Properties

- **Appearance**: light tan to brown
- **Physical State**: granular
- **Odor**: mild
- **Odour Threshold**: no data available
- **pH**: 5 - 7 at 1% (as aqueous solution)
- **Vapor Pressure**: no data available
- **Vapor Density (Air = 1)**: no data available
- **Bulk density**: 580 - 700 kg/m³
- **Evaporation rate**: not applicable
- **Boiling Point**: not applicable
- **Melting / Freezing Point**: not applicable
- **Water solubility**: dispersible
- **Minimum Ignition Energy**: not applicable
- **Decomposition temperature**: no data available
- **Partition coefficient: n-octanol/water**: not applicable
- **Viscosity**: not applicable
- **Flash point**: not applicable
- **Autoignition temperature**: no data available
- **Lower explosion limit**: not applicable
- **Upper explosion limit**: not applicable
- **Explosivity**: no data available

Section 10: Stability and Reactivity

- **Reactivity**
  - **Thermal decomposition**: no data available
  - **Chemical stability**: Stable under normal conditions.
Possibility of hazardous reactions
No hazardous reactions when stored and handled according to prescribed instructions.

Conditions to avoid
no data available

Incompatible materials
no data available

Hazardous decomposition products
No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes
Ingestion, Eye contact, Skin contact, Inhalation

Immediate Effects
Eye
May cause slight irritation.

Skin
May cause slight irritation.

Ingestion
Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity
LD50 (rat) 4,286 mg/kg

Acute inhalation toxicity
no data available

Acute dermal toxicity
LD50 (rat) > 5,000 mg/kg

Skin irritation
Slight irritation (rabbit)

Eye irritation
Slight irritation (rabbit)

Sensitisation
Non-sensitizing. (guinea pig)
OECD Test Guideline 406, Buehler test

ACGIH
None.

NTP
None.

IARC
None.

OSHA
None.

Further information
Only acute toxicity studies have been performed on the formulated product.
SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish
LC50 (Oncorhynchus mykiss (rainbow trout)) > 122 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient chlorsulfuron.

Toxicity to aquatic invertebrates
EC50 (Daphnia magna (Water flea)) > 112 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient chlorsulfuron.

LC50 (Mysidopsis bahia (mysid shrimp)) 89 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient chlorsulfuron.

Toxicity to aquatic plants
ErC50 (Raphidocelis subcapitata (freshwater green alga)) > 0.24 mg/l
Exposure time: 72 h

EbC50 (Raphidocelis subcapitata (freshwater green alga)) 0.088 mg/l
Exposure time: 72 h

Environmental precautions
Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Product
Do not contaminate water, food, or feed by disposal.
Dispose of unused product by incineration at a licensed incineration plant, in accordance with all applicable national and local regulations.

Contaminated packaging
Consult state and local regulations regarding the proper disposal of container.
Follow advice on product label and/or leaflet.

RCRA Information
Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR
Not dangerous goods / not hazardous material

IMDG
UN number 3077
Class 9
Packaging group III
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CHLORSULFURON MIXTURE)

IATA
UN number: 3077
Class: 9
Packaging group: III
Environm. Hazardous Mark: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CHLORSULFURON MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

SECTION 15: REGULATORY INFORMATION

EPA Registration No.: 432-1561
US Federal Regulations
TSCA list
Lignosulfonic acid, sodium salt, sulfomethylated: 68512-34-5
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) None.
SARA Title III - Section 302 - Notification and Information None.
SARA Title III - Section 313 - Toxic Chemical Release Reporting chlorsulfuron: 64902-72-3
US States Regulatory Reporting
CA Prop 65
This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients
chlorsulfuron: 64902-72-3 NJ, RI

Canadian Regulations
Canadian Domestic Substance List None.

Environmental
CERCLA None.
Clean Water Section 307 Priority Pollutants
None.
Safe Drinking Water Act Maximum Contaminant Levels
None.

EPA/FIFRA Information:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!
Hazard statements: Harmful if swallowed.
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms
49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values
CAS-Nr. Chemical Abstracts Service number
EINECS European inventory of existing commercial substances
ELINCS European list of notified chemical substances
IARC US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
N.O.S. Not otherwise specified
NTP US. National Toxicology Program (NTP) Report on Carcinogens
OECD Organization for Economic Co-operation and Development
TDG Transportation of Dangerous Goods
TWA Time weighted average
UN United Nations
WHO World health organisation

NFPA 704 (National Fire Protection Association):
Health - 1 Flammability - 1 Instability - 0 Others - none

Health - 1 Flammability - 1 Physical Hazard - 0 PPE - 0

Reason for Revision: New Safety Data Sheet.
Revision Date: 09/02/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.