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

Product identifier
Trade name: HYVAR® X-L HERBICIDE
Product code (UVP): 84078778
SDS Number: 102000030321
EPA Registration No.: 432-1548

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 CropScience
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: 1-866-99BAYER (1-866-992-2937)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200
Acute toxicity (Oral): Category 4
Eye irritation : Category 2B
Skin irritation : Category 2
Flammable liquids : Category 3
Specific target organ toxicity - repeated exposure : Category 1
Carcinogenicity : Category 2

Signal word: Danger
Hazard statements
Flammable liquid and vapour.
Causes damage to organs (liver) through prolonged or repeated exposure. 
Harmful if swallowed. 
Causes skin irritation. 
Causes eye irritation. 
Suspected of causing cancer.

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 
Keep container tightly closed. 
Ground/bond container and receiving equipment. 
Use explosion-proof electrical/ ventilating/ lighting/ equipment. 
Use only non-sparking tools. 
Take precautionary measures against static discharge. 
Obtain special instructions before use. 
Do not handle until all safety precautions have been read and understood. 
Wear protective gloves/ protective clothing/ eye protection/ face protection. 
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. 
Wash thoroughly after handling. 
Do not eat, drink or smoke when using this product. 
IF exposed or concerned: Get medical advice/ attention. 
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. 
Specific treatment (see supplemental first aid instructions on this label). 
Get medical advice/attention if you feel unwell. 
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. 
Rinse mouth. 
If skin irritation occurs: Get medical advice/ attention. 
Take off contaminated clothing and wash before reuse. 
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 
If eye irritation persists: Get medical advice/ attention. 
Store in a well-ventilated place. Keep cool. 
Store locked up. 
Dispose of contents/container in accordance with local regulation.

Other hazards
No other 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>Bromacil</td>
<td>314-40-9</td>
<td>21.4</td>
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<tr>
<td>Ethanediol</td>
<td>107-21-1</td>
<td>32.1</td>
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<td>Ethanol</td>
<td>64-17-5</td>
<td>6.1</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>3.9</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.

Unsafe
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
Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information
Evacuate personnel to safe areas. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Do not allow run-off from fire fighting to enter drains or water courses.
Flash point 44 °C
Autoignition temperature 410 °C / 770 °F
Lower explosion limit no data available
Upper explosion limit no data available
Explosivity not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Precautions Evacuate and isolate spill area. Remove all sources of ignition. Use personal protective equipment.

Methods and materials for containment and cleaning up
Methods for cleaning up Dike area to prevent runoff. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Decontaminate tools and equipment following cleanup. Contaminated soil may have to be removed and disposed.

Additional advice Do not allow to enter soil, waterways or waste water canal.

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 Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Vapours may form explosive mixture with air. Take measures to prevent the build up of electrostatic charge.

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. Before removing gloves clean them with soap and water. Remove contaminated clothing immediately and dispose of safely. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities
**Requirements for storage areas and containers**
Store in original container and out of the reach of children, preferably in a locked storage area. 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.

### 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>
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<td>10 mg/m³ (TWA)</td>
<td>02 2012</td>
<td>ACGIH</td>
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<tr>
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<td>TN OEL</td>
</tr>
<tr>
<td>Bromacil</td>
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<td>07 2011</td>
<td>TX ESL</td>
</tr>
<tr>
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</tr>
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<td>260 mg/m3/200 ppm (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
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</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 or Goggles

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 water. Keep and wash PPE separately from other laundry.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Limit Value</th>
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</tbody>
</table>

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: light brown to yellow
Physical State: liquid
Odor: alcoholic
Odour Threshold: no data available
pH: 11.2 - 12.2
Vapor Pressure: no data available
Vapor Density (Air = 1): no data available
Density: 1.12 g/cm³
Evaporation rate: no data available
Boiling Point: no data available
Melting / Freezing Point: no data available
Water solubility: soluble
Minimum Ignition Energy: not applicable
Decomposition temperature: no data available
Partition coefficient: n-octanol/water: not applicable
Viscosity: no data available
Flash point: 44 °C
Autoignition temperature: 410 °C / 770 °F
Lower explosion limit: no data available
Upper explosion limit: no data available
Explosivity: not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity
Thermal decomposition: no data available
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Vapours may form explosive mixture with air.
Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Acids, Amines

Hazardous decomposition products
Thermal decomposition can lead to release of:
Carbon oxides
Methanol
Ethanol

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes
Ingestion, Skin Absorption, Eye contact

Immediate Effects

Eye
Causes eye irritation.

Skin
May be harmful if absorbed through skin.

Ingestion
Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity
LD50 (female rat) 1,414 mg/kg
LD50 (male rat) 3,927 mg/kg

Acute inhalation toxicity
LC50 (rat) > 5.0 mg/l
Exposure time: 4 h

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

Skin irritation
Moderate skin irritation. (rabbit)

Eye irritation
Moderate eye irritation. (rabbit)

Sensitisation
Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity
Methanol did not cause specific target organ toxicity in experimental animal studies.
Ethanol did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity
Methanol was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.
Ethanol was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro
and in vivo tests.

Assessment carcinogenicity
Methanol was not carcinogenic in lifetime feeding studies in rats and mice.
Sufficient evidence is available for carcinogenicity of alcoholic beverages in humans.

ACGIH
Bromacil 314-40-9 Group A3
Ethanediol 107-21-1 Group A4
Ethanol 64-17-5 Group A3
NTP
None.

OSHA
None.

Assessment toxicity to reproduction
Methanol did not cause reproductive toxicity in a two-generation study in rats. Ethanol caused reproduction toxicity in generation studies in rats only at dose levels also toxic to the parent animals.

Assessment developmental toxicity
Methanol caused developmental toxicity only at dose levels toxic to the dams. Ethanol caused developmental toxicity only at dose levels toxic to the dams.

Further information
Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s). The information is derived from the properties of the individual components.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish
LC50 (Lepomis macrochirus (Bluegill sunfish)) 127 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient bromacil.

LC50 (Oncorhynchus mykiss (rainbow trout)) 36 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient bromacil.

Toxicity to aquatic invertebrates
EC50 (Daphnia magna (Water flea)) 119 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient bromacil.

Toxicity to aquatic plants
ErC50 (Raphidocelis subcapitata (freshwater green alga)) 0.017 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient bromacil.

Biodegradability
Methanol: rapidly biodegradable
Ethanol: rapidly biodegradable

Koc
Methanol: Koc: 1

Bioaccumulation
Methanol: Bioconcentration factor (BCF) < 10
Does not bioaccumulate.
Ethanol:
Does not bioaccumulate.
Mobility in soil

Methanol: Highly mobile in soils

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.
Do not apply when weather conditions favor runoff or drift.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product
Do not contaminate water, food, or feed by disposal.
Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
Dispose of contents/container in accordance with local regulation.

Contaminated packaging
Empty residue into application equipment.
Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning.
If burned, stay out of smoke.
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
NA-Number 1993
Packaging group III
Proper shipping name COMBUSTIBLE LIQUID, N.O.S.
(Ethanol, Methanol)
RQ Reportable Quantity is reached with 15,576 lb of product.

IMDG
UN number 1993
Class 3
Packaging group III
Marine pollutant NO
Proper shipping name FLAMMABLE LIQUID, N.O.S.
(Ethanol, Methanol Solution)

IATA
UN number 1993
Class 3
Packaging group III
Environm. Hazardous Mark NO
Proper shipping name FLAMMABLE LIQUID, N.O.S. (ETHANOL, METHANOL SOLUTION)

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. 432-1548
US Federal Regulations
TSCA list
Ethanediol 107-21-1
Ethanol 64-17-5
Methanol 67-56-1
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
Bromacil 314-40-9 25,000lbs
Ethanediol 107-21-1 1.0%
Methanol 67-56-1 1.0%
US States Regulatory Reporting
CA Prop65
This product does not contain any substances known to the State of California to cause cancer.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Methanol 67-56-1 Developmental toxin.

US State Right-To-Know Ingredients
Bromacil 314-40-9 CA, MN, NJ, RI
Ethanediol 107-21-1 CA, IL, MN, NJ, RI
Ethanol 64-17-5 CA, CT, MN
Methanol 67-56-1 CA, CT, IL, MN, NJ, RI

Canadian Regulations
Canadian Domestic Substance List
None.

Environmental
CERCLA
Ethanediol 107-21-1
Methanol 67-56-1 5,000 lbs
Clean Water Section 307 Priority Pollutants
None.
Safe Drinking Water Act Maximum Contaminant Levels
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 or absorbed through skin.  
Causes eye irritation.  
Avoid contact with skin, eyes and clothing.

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 - 2        Instability - 0        Others - none

Health - 1        Flammability - 2        Physical Hazard - 0        PPE -
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: New Safety Data Sheet.

Revision Date: 06/18/2015

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.