



# Safety Data Sheet

Preparation Date 27-Jan-2025

Revision date 18-Mar-2025

Revision Number: 2

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Identification of the product

Product Description Intrava DX

### Other means of identification

Internal SDS code 12-0636  
Registration number(s) 70506-638

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

Recommended use Herbicide.  
Uses advised against Non labeled activities Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

UPL NA Inc.  
PO Box 12219  
Research Triangle Park, NC 27709-12219

### Emergency telephone number

Company Phone Number 1-800-438-6071  
Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |            |
|--|------------|
| Acute toxicity - Oral                              | Category 4 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

### Label elements

#### EMERGENCY OVERVIEW

#### WARNING

#### Hazard Statements

HARMFUL IF SWALLOWED  
May cause damage to organs through prolonged or repeated exposure  
(Blood)



**Appearance** clear**Physical state** Liquid**Odor** faint**Precautionary Statements - Prevention**

Do not get in eyes, on skin, or on clothing  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION**

- Harmful to aquatic life

**3. Composition/information on Ingredients**

| Chemical name   | CAS No      | Weight-% |
|-----------------|-------------|----------|
| Metribuzin      | 21087-64-9  | 13.5     |
| Amicarbazone    | 129909-90-6 | 23.63    |
| Glycerine       | 56-81-5     | <15      |
| Ethylene glycol | 107-21-1    | <10      |

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

**4. First aid measures****FIRST AID MEASURES**

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.         |
| <b>Skin contact</b> | Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Remove and wash contaminated clothing before re-use.  |
| <b>Inhalation</b>   | Move person 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 poison control center or doctor for further treatment advice. |
| <b>Ingestion</b>    | Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.  |

**Most Important Symptoms and Effects, Both Acute and Delayed**

|  |   |
|--|---|
| <b>Most Important Symptoms and Effects</b> | May cause damage to organs through prolonged or repeated exposure. (Blood effects). |
|--|---|

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**5. Fire-fighting measures****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** no data available.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Oxides of nitrogen. Hydrocarbons.

**Explosion data**

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

Avoid contact with skin and eyes. Provide adequate ventilation. Remove all sources of ignition. Use personal protective equipment.

**Environmental Precautions**

**Environmental precautions**

Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up**

Follow all label instructions regarding spill clean-up and residual disposal methods.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling**

Avoid contact with skin and eyes. Keep away from open flames, hot surfaces and sources of ignition. Do not eat, drink or smoke when using this product. Provide adequate ventilation. Wash thoroughly after handling. Keep out of reach of children.

**Conditions for safe storage, including any incompatibilities**

**Storage**

If stored below 0 °C or above 40 °C for extended periods of time changes to the product properties may occur. Keep containers tightly closed in a cool, well-ventilated place.

**incompatible materials**

No materials to be especially mentioned. Corrosive effect on brass, mild steel.

## 8. Exposure Controls/Personal Protection

**Exposure guidelines**

| Chemical name   | ACGIH TLV  | OSHA PEL   |
|-----------------|--|--|
| Metribuzin      | TWA: 5 mg/m <sup>3</sup>   | (vacated) TWA: 5 mg/m <sup>3</sup>   |
| Glycerine       |  | TWA: 15 mg/m <sup>3</sup> mist, total particulate<br>TWA: 5 mg/m <sup>3</sup> mist, respirable fraction<br>(vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate<br>(vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction |
| Ethylene glycol | STEL: 50 ppm vapor fraction<br>STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only<br>TWA: 25 ppm vapor fraction | (vacated) Ceiling: 50 ppm<br>(vacated) Ceiling: 125 mg/m <sup>3</sup>  |

**Engineering controls**

Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Personal protective equipment****Eye/Face Protection**

Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact.

**Skin protection**

Long sleeved clothing. Chemical resistant gloves.

**Respiratory protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands and face before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**

|                       |        |
|-----------------------|--------|
| <b>Appearance</b>     | clear  |
| <b>Physical state</b> | Liquid |
| <b>Odor</b>           | faint  |
| <b>color</b>          | Yellow |

| <u>Property</u>                               | <u>VALUES</u>            | <u>Remarks/ Method</u>            |
|---|--------------------------|-----------------------------------|
| <b>pH</b>                                     |                          | None known                        |
| <b>Melting point/freezing point</b>           |                          | None known                        |
| <b>Boiling Point/Range</b>                    |                          | None known                        |
| <b>Flash Point</b>                            |                          | None known                        |
| <b>Evaporation Rate</b>                       |                          | None known                        |
| <b>Flammability (solid, gas)</b>              |                          | None known                        |
|   |                          | <b>Relative Density</b> 1.08 g/ml |
| <b>Specific gravity</b>                       |                          | None known                        |
| <b>Bulk density</b>                           |                          | None known                        |
| <b>Water solubility</b>                       |                          | None known                        |
| <b>Solubility in Other Solvents</b>           | No information available | None known                        |
| <b>Partition coefficient: n-octanol/water</b> |                          | None known                        |
| <b>Autoignition temperature</b>               |                          | None known                        |
| <b>Decomposition temperature</b>              |                          | None known                        |
| <b>Viscosity</b>                              |                          | None known                        |

**9.2 OTHER INFORMATION- NONE**

## 10. Stability and Reactivity

**Reactivity**

no data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**incompatible materials**

No materials to be especially mentioned. Corrosive effect on brass, mild steel.

**Hazardous decomposition products**

None under normal use conditions.

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

|                            |   |
|----------------------------|---|
| <b>Product information</b> | Intrava DX<br>Acute oral LD50 1,750 - 5,000 mg/kg<br>Acute dermal LD50 >5,000 mg/kg<br>Acute inhalation LC50 >5.05 mg/L/4hr No deaths |
| <b>Inhalation</b>          | Based on available data, the classification criteria are not met. May cause irritation.   |
| <b>Eye contact</b>         | Based on available data, the classification criteria are not met. May cause slight irritation.  |
| <b>Skin contact</b>        | Based on available data, the classification criteria are not met. Substance may cause slight skin irritation.                         |
| <b>Ingestion</b>           | HARMFUL IF SWALLOWED.   |

**Information on Toxicological Effects**

|                 |                           |
|-----------------|---------------------------|
| <b>Symptoms</b> | No information available. |
|-----------------|---------------------------|

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                 |   |
|---------------------------------|---|
| <b>Sensitization</b>            | Based on test data, the formulation is not a skin sensitizer.   |
| <b>Mutagenic effects</b>        | no data available.  |
| <b>Carcinogenicity</b>          | Metribuzin carcinogenicity - Metribuzin was investigated for carcinogenicity in chronic feeding studies using rats and mice at maximum levels of 900 and 3200 ppm, respectively. There was no evidence of carcinogenic potential observed in either species.<br><br>Mutagenicity - Metribuzin is not genotoxic<br><br>Developmental toxicity - In rat teratology studies, metribuzin was administered orally during gestation at doses of 25, 70, or 200 mg/kg. Maternal toxic effects were observed at all doses. At 200 mg/kg fetotoxic effects observed included reduced median placental weights, reduced median fetal weights, and increased incidence of delayed ossification. Teratogenic effects were not observed at any of the doses tested. The NOEL's for maternal and developmental toxicity were less than 25 and 70 mg/kg, respectively. When rabbits were administered metribuzin by oral gavage during gestation at doses of 10, 30, or 85 mg/kg, there was no evidence of any developmental effects. The NOEL's for maternal and developmental toxicity were 30 and 85 mg/kg respectively.<br><br>Reproduction - In a rat reproduction study, metribuzin was administered for 2 generations at dietary concentrations of 30, 150 or 750 ppm. Offspring at the high dose exhibited reduced body weight gains starting at day 14 lactation, an age correlating with the consumption of treated diets. The NOEL's for materials and reproductive toxicity were 30 and 750 ppm, respectively. |
| <b>Reproductive effects</b>     | Not Available.  |
| <b>STOT - Single Exposure</b>   | no data available.  |
| <b>STOT - Repeated Exposure</b> | Causes damage to organs through prolonged or repeated exposure.   |
| <b>Target organ effects</b>     | blood.  |
| <b>Aspiration hazard</b>        | No information available.   |

**Numerical Measures of Toxicity - See above**

**12. Ecological Information****ecotoxicity**

May be harmful to aquatic life

metribuzin

FISH - rainbow trout 42 mg/L (96 hr)

DAPHNIA - water flea 4.18 mg/L (48 hr)

ALGAE Pseudokirchneriella subcapitata 0.038 mg/L (96 hr) LOEC

**Persistence/Degradability**

no data available.

**Bioaccumulation/ Accumulation**

Bioaccumulative potential.

| Chemical name               | Log Pow |
|-----------------------------|---------|
| Glycerine<br>56-81-5        | -1.76   |
| Ethylene glycol<br>107-21-1 | -1.93   |

**Other Adverse Effects**

no data available

**13. Disposal Considerations****Waste Treatment Methods****Waste Disposal Method**

Dispose of in accordance with all applicable federal, state, and local laws and regulations.

**Contaminated packaging**

Refer to product label.

**14. Transport Information****DOT**

When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated.

When shipped in bulk, by vessel, or internationally refer to the IMDG shipping description:

**TDG**

When shipped in Canada domestic highway non-bulk this product can be shipped as Not regulated as per TDG 1.45.1

In bulk, by vessel or internationally - use IMDG description

**IATA****UN/ID no****Proper shipping name****Hazard class****Packing group****Description**

Single or inner packagings less than 5L (liquid) or 5kg net (solids) are excepted from the Dangerous Goods regulations (IATA Special provision A197)

UN3082

Environmentally hazardous substances, liquid, n.o.s (Metribuzin)

9

PG III

Marine pollutant

**IMDG**

Single or inner packaging less than 5L (liquid) or 5 kg net (solids) are excepted from the Dangerous Goods regulations (IMDG 2.10.2.7)

|                              |  |
|------------------------------|--|
| <b>UN/ID no</b>              | UN3082   |
| <b>Proper shipping name</b>  | Environmentally hazardous substances, liquid, n.o.s (metribuzin) |
| <b>Hazard class</b>          | 9  |
| <b>Packing group</b>         | PG III   |
| <b>Environmental hazards</b> | Marine pollutant   |

### 15. Regulatory 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 as required on the pesticide label:

**signal word** CAUTION

**Harmful if swallowed.**

#### International Inventories

|                 |             |
|-----------------|-------------|
| <b>USINV</b>    | Not present |
| <b>DSL/NDSL</b> | Not present |
| <b>EINECS/</b>  | Not Present |
| <b>ELINCS</b>   |             |
| <b>ENCS</b>     | Not Present |
| <b>China</b>    | Not Present |
| <b>KECL</b>     | Not Present |
| <b>PICCS</b>    | Not Present |
| <b>AICS</b>     | Not Present |
| <b>TSCA</b>     | Not Present |

- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

#### Federal Regulations

##### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

##### CERCLA

| Chemical name               | RQ      | CERCLA EHS RQs | RQ   |
|-----------------------------|---------|----------------|--|
| Ethylene glycol<br>107-21-1 | 5000 lb |                | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

##### CERCLA

| Component                           | RQ      |
|-------------------------------------|---------|
| Ethylene glycol<br>107-21-1 ( <10 ) | 5000 lb |

**SARA Product RQ** 0

**RCRA****Pesticide Information**

| Component                             | FIFRA - Restricted Use | FIFRA - Pesticide Product Other Ingredients | FIFRA - Listing of Pesticide Chemicals | California Pesticides - Restricted Materials |
|---------------------------------------|------------------------|---|--|--|
| Metribuzin<br>21087-64-9 ( 13.5 )     |                        |   | X                                      |  |
| Amicarbazone<br>129909-90-6 ( 23.63 ) |                        |   | X                                      |  |
| Glycerine<br>56-81-5 ( <15 )          |                        |   | X                                      |  |
| Ethylene glycol<br>107-21-1 ( <10 )   |                        |   | X                                      |  |

**State Regulations**

| Component                           | California Prop. 65 |
|-------------------------------------|---------------------|
| Ethylene glycol<br>107-21-1 ( <10 ) | Developmental       |

**Prop 65 Pictogram****Prop 65 Warning Statement  
California Proposition 65****WARNING**

This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**State Right-to-Know**

| Chemical name              | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------------|---------------|------------|--------------|----------|--------------|
| Metribuzin - 21087-64-9    | X             | X          | X            |          |              |
| Glycerine - 56-81-5        | X             | X          | X            |          |              |
| Ethylene glycol - 107-21-1 | X             | X          | X            | X        |              |

**International regulations****U.S. EPA Label information**

EPA Pesticide registration number 70506-638

**16. Other Information****NFPA**

HEALTH 1

flammability 0

Instability 0

Physical hazard -

Preparation Date

27-Jan-2025

Revision date

18-Mar-2025

Revision Summary

Update Section 9

**Disclaimer**

UPL NA Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPL NA Inc. and UPL NA Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

**End of SDS**