

# **Safety Data Sheet**

# VALOR® XLT Soybean Herbicide

# 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

**PRODUCT NAME:** VALOR® XLT Soybean Herbicide

**EPA REGISTRATION NUMBER:** 59639-117 **PRODUCT CODE:** 88544 **VC NUMBER(S):** 1307

SYNONYM(S): V-10089 WDG Herbicide

MANUFACTURER/DISTRIBUTOR

VALENT U.S.A. CORPORATION

P.O. Box 8025

1600 Riviera Avenue, Suite 200 Walnut Creek, CA 94596-8025 **EMERGENCY TELEPHONE NUMBERS** 

HEALTH EMERGENCY OR SPILL (24 hr):

(800) 892-0099

TRANSPORTATION (24 hr.): CHEMTREC (800) 424-9300 or (202) 483-7616

PRODUCT INFORMATION

AGRICULTURAL PRODUCTS: (800) 682-5368

The current SDS is available through our website (www.valent.com), or by calling the product information numbers listed above.

# 2. HAZARDS IDENTIFICATION

# For EPA FIFRA-specific information see Section 15

### Classification

Reproductive toxicity Category 2

Label elements

**EMERGENCY OVERVIEW** 

# WARNING



# **Hazard statements**

Suspected of damaging fertility or the unborn child

### **Precautionary Statements - Prevention**

Read product label prior to using this product. For specific handling instruction refer to Section 7, Handling and Storage

### **Precautionary Statements - Response**

See Section 4, First Aid Measures

#### **Precautionary Statements - Storage**

For information on Storage and Handling see Section 7.

### **Precautionary Statements - Disposal**

For further information on product and container disposal see Section 13.

# Hazards not otherwise classified (HNOC)

### Other Information

25% of the mixture consists of ingredient(s) of unknown toxicity

For information on Transportation requirements see Section 14.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight/ Percent	TRADE SECRET
Flumioxazin	103361-09-7	30	
Chlorimuron-ethyl, ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl) amino]carbonyl]amino]sulfonyl]benzoate	90982-32-4	10.3	
Others	Various CAS#s	57 - 61	

<sup>\*</sup> The chemical name, CAS number and/or exact percentage have been withheld as a trade secret

Other ingredients, which may be maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

# 4. FIRST AID MEASURES

### **EMERGENCY NUMBER (800) 892-0099**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

### **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 poison control center or doctor for treatment advice.

### **SKIN CONTACT:**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

#### INGESTION:

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

#### INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### **NOTES TO PHYSICIAN:**

None

# 5. FIRE FIGHTING MEASURES

**NFPA RATING:** 

Health: 1
Flammability: 1
Reactivity: 0
Special: None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No data available

# 6. ACCIDENTAL RELEASE MEASURES

VALENT EMERGENCY PHONE NUMBER: (800) 892-0099
CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300
OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

UN/NA NUMBER: Not applicable EMERGENCY RESPONSE GUIDEBOOK NO.: Not applicable

**CONTAINMENT:** Reduce airborne dust. Avoid runoff into storm sewers or other bodies of water.

**CLEANUP:** Clean up spill immediately. Vacuum or sweep up material and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

**CONTAINMENT:** This material will disperse or dissolve in water. Stop the source of the release. Contain and isolate to prevent further release into soil, surface water and ground water.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

# 7. HANDLING AND STORAGE

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

### **HANDLING:**

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited. Do not put formulation or dilute spray solution into food or drink containers. Do not contaminate food or foodstuffs. Do not store or transport near feed or food.

### STORAGE:

Do not put formulation or dilute spray solution into food or drink containers. Do not store or transport near food or feed. Do not contaminate food or feed. Keep in the original container. Store in a cool, dry, secure place, out of the direct sunlight. Do not store in or around the home.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

EYES & FACE: Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**RESPIRATORY PROTECTION:** Use this material only in well ventilated areas. If ventilation is not adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

This material may be a respiratory irritant and, unless ventilation is adequate, the use of approved respiratory protection is recommended. Use this material only in well ventilated areas.

#### **EXPOSURE LIMITS**

Chemical Name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Flumioxazin	None	None	None
Chlorimuron-ethyl, ethyl 2-[[[[(4-chloro-6-methoxy-2-pyrimidinyl) amino]carbonyl]amino]sulfonyl]benzoate	None	None	10 mg/m³ 8 and 12 hour TWA (total dust); 5 mg/m³ 8 and 12 hour TWA (respirable dust)
Others	None	None	None

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Solid

AppearanceGranulesOdorNo information availableColorLight brownOdor thresholdNo information available

PROPERTIES<br/>pHValues<br/>5.6Remarks • Method<br/>@ 25°C (1% emulsion)

Melting point/freezing point

No information available
No information available

Flash point

Evaporation rate
No information available
Flammability (solid, gas)
No information available

Flammability Limits in Air

Upper flammability limits
Lower flammability limit
Vapor pressure
Vapor density
Specific Gravity
Water solubility
Solubility in other solvents
No information available
No information available
No information available
Dispersible in water
No information available

Solubility in other solvents
Partition coefficient
No information available
No information available

Autoignition temperatureNo information availableDecomposition temperatureNo information available

Viscosity Not Applicable

Explosive properties
Oxidizing properties
Density
No information available
No apparently reaction.
No information available

Bulk density 45.7 lb./ft<sup>3</sup>

# 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

None known based on information supplied.

### **Hazardous Decomposition Products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

### **ACUTE TOXICITY:**

Based on an evaluation of the ingredients and/or similar products.

Oral Toxicity LD 50 (rats) > 5000 mg/kg **EPA Tox Category** IV Dermal Toxicity LD 50 (rabbits) > 2000 mg/kg **EPA Tox Category** Ш Inhalation Toxicity LC 50 (rats) > 0.969 mg/L**EPA Tox Category** Ш Eye Irritation (rabbits) Brief and/or minor irritation **EPA Tox Category** Ш Skin Irritation (rabbits) Brief and/or minor irritation **EPA Tox Category** IV

Skin Sensitization (guinea pigs) Probable non-sensitizer EPA Tox Category Not applicable

# **CARCINOGEN CLASSIFICATION**

Chemical Name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Flumioxazin	Not listed	Not listed	Not listed
Chlorimuron-ethyl, ethyl 2-[[[[(4-chloro-6-methoxy-2-pyrimidinyl) amino]carbonyl]amino]sulfonyl]benzoate	Not listed	Not listed	Not listed
Others	Not listed	Not listed	Not listed

# **TOXICITY OF FLUMIOXAZIN TECHNICAL:**

SUBCHRONIC: Compound related effects of Flumioxazin Technical noted in rats following subchronic exposures at high dose levels were hematotoxicity including anemia, and increases in liver, spleen, heart, kidney and thyroid weights. In dogs, the effects produced at high dose levels included a slight prolongation in activated partial thromboplastin time, increased cholesterol and phospholipid, elevated alkaline phosphatase, increased liver weights and histological changes in the liver. The lowest no-observable-effect-level (NOEL) in subchronic studies was 30 ppm in the three-month toxicity study in rats.

CHRONIC/CARCINOGENICITY: In a one year dog feeding study, Flumioxazin Technical produced treatment-related changes in blood chemistry and increased liver weights at 100 and 1000 mg/kg/day. Minimal treatment-related histological changes were noted in the livers of animals in the 1000 mg/kg/day group. Based on these data the NOEL is 10 mg/kg/day. Dietary administration of Flumioxazin Technical for 18 months produced liver changes in mice of the 3000 and 7000 ppm groups. There was no evidence of any treatment-related oncogenic effect. The NOEL for this study is 300 ppm. Dietary administration of Flumioxazin Technical for 24 months produced anemia and chronic nephropathy in rats of the 500 and 1000 ppm groups. The anemia lasted throughout the treatment period, however, it was not progressive nor aplastic in nature. No evidence of an oncogenic effect was observed. The NOEL for this study is 50 ppm.

**DEVELOPMENTAL TOXICITY:** Flumioxazin Technical produces developmental toxicity in rats in the absence of maternal toxicity at doses of 30 mg/kg/day by the oral route and 300 mg/kg/day by the dermal route. The developmental effects noted consisted primarily of decreased number of live fetuses and fetal weights, cardiovascular abnormalities, wavy ribs and decreased number of ossified sacrococcygeal vertebral bodies. The developmental NOEL in the rat oral and dermal developmental toxicity studies were 10 and 100 mg/kg/day, respectively. The response in rabbits was very different from that in rats. No developmental toxicity was noted in rabbits at doses up to 3000 mg/kg/day, a dose well above the maternal NOEL of 1000 mg/kg/day.

Mechanistic studies indicate that the effects seen in the rat are highly unlikely to occur in the human and that flumioxazin would not be a developmental toxicant in the human.

**REPRODUCTION:** Reproductive toxicity was observed in F1 males, P1 females and F1 females at 300 ppm Flumioxazin Technical, the highest dose tested and a dose that also produced signs of systemic toxicity. Toxicity was also observed in the F1 and F2 offspring at doses of 200 ppm and greater.

MUTAGENICITY: Flumioxazin Technical was not mutagenic in most in vitro assays: gene mutation and a chromosome aberration assay in the absence of metabolic activation. In three in vivo assays, chromosome aberration, unscheduled DNA synthesis and micronucleus assay, Flumioxazin Technical was not mutagenic. The only positive response was observed in the *in vitro* chromosome aberration assay in the presence of metabolic activation. Overall, Flumioxazin Technical does not present a genetic hazard.

# TOXICITY OF CHLORIMURON ETHYL TECHNICAL

CHRONIC/CARCINOGENICITY: Chlorimuron ethyl technical was administered to rats for 2 years at dietary concentrations of 0, 25, 250 and 2500 ppm. This compound was not oncogenic at any dose. The NOEL was 250 ppm based on transient anemia observed during the first year of the study and slight body weight and organ weight changes. Chlorimuron ethyl technical was administered to mice for 18 months at dietary concentrations of 0, 12.5, 125 and 1250 ppm. There were no oncogenic effects or other effects observed at any dose. The NOEL was 1250 ppm, the highest dose tested. Chlorimuron ethyl technical was fed to dogs at dose levels of 0, 25, 250 or 1500 ppm in the diet. The NOEL was 250 ppm based on increased liver weight, clinical chemistry changes and anemia at the high dose.

SDS NO.: 0321 **Emergency Telephone:** (800) 892-0099 REVISION DATE: 05/23/2015

**DEVELOPMENTAL TOXICITY:** Rats were dosed via intubation at 0, 30, 150 or 600 mg/kg/day chlorimuron ethyl technical. The NOEL for maternal and fetotoxicity was 30 mg/kg/day based on reduced food consumption and body weight gain and increased frequency of fetal variations. There was a slight increase in the number of fetal malformations in the presence of overt maternal toxicity at the high dose. Although this was not statistically significant, it was considered to be a weak teratogenic response. In this study chlorimuron ethyl technical was not demonstrated to be a unique hazard to the conceptus. Rabbits were dosed via intubation at 0, 15, 60 or 300 mg/kg/day. There were no teratogenic effects at any dose. The NOELs for maternal and fetotoxicity were 60 and 15 mg/kg/day respectively. These were based on reduced body weight gain and increased frequency of fetal variations due to retarded development.

**REPRODUCTION:** Chlorimuron ethyl technical was administered in the diet at concentrations of 0, 25, 250 or 2500 ppm in a 2-generation rat reproduction study. Reproduction and lactation performance were not affected at any dose. The NOEL for maternal and fetotoxicity was 250 ppm. This was based on reduced maternal and fetal body weights and a compromised nutritional state among offspring at the high dose.

**MUTAGENICITY:** Chlorimuron ethyl technical was negative in the following genotoxicity tests: Ames bacterial assay, *in vitro* mutagenicity test in Chinese hamster ovary cells, *in vivo* cytogenetic assay (rat bone marrow cells), and *in vitro* unscheduled DNA synthesis (rat liver cells).

### **TOXICITY OF OTHER INGREDIENTS:**

This product contains crystalline silica. Repeated inhalation of the dust may cause insidious lung injury and possibly silicosis. In patients with silicosis, areas of the lung become filled with scar tissue. The signs and symptoms may include cough, shortness of breath, difficulty in breathing, and loss of weight. The disease can progressively worsen and result in death. In their Monograph - Volume 42, the International Agency for Research on cancer (IARC) classified crystalline silica as a probable human carcinogen. Users of this product should confirm that their operating, storage, and distribution facilities comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) for all materials containing more than 0.1% crystalline silica. Employee exposures to airborne crystalline silica dust should be controlled to below the OSHA 8 hour PEL for the particular type of crystalline silica present.

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

# 12. ECOLOGICAL INFORMATION

#### **AVIAN TOXICITY:**

Based upon EPA designation, Flumioxazin Technical is practically non-toxic to avian species. The following results were obtained from studies with Flumioxazin Technical:

Oral LD  $_{50}$  bobwhite quail: greater than 2250 mg/kg Dietary LC  $_{50}$  bobwhite quail: greater than 5620 ppm Dietary LC  $_{50}$  mallard duck: greater than 5620 ppm.

Flumioxazin Technical in the diet. In mallard ducks, a slight, but not statistically significant reduction in hatchlings and 14-day old survivors was observed. Based on a possible, slight effect on egg production at 500 ppm, the NOEL for this study was 250 ppm.

Chlorimuron ethyl technical is minimally toxic to avian species:

Oral LD 50 mallard duck: greater than 2510 mg/kg Dietary LC 50 bobwhite quail: greater than 5620 ppm

AQUATIC ORGANISM TOXICITY: Based upon EPA designation, Flumioxazin Technical is slightly to moderately toxic

to freshwater fish; moderately toxic to freshwater invertebrates; moderately toxic to

estuarine/marine fish and moderately to highly toxic to estuarine/marine

invertebrates, based on the following tests:

96-hour LC 50 rainbow trout: 2.3 mg/L

96-hour LC 50 bluegill sunfish: greater than 21 mg/L 48-hour LC 50 Daphnia magna: greater than 5.5 mg/L 96-hour LC 50 sheepshead minnow: greater than 4.7 mg/L 96-hour (shell deposition) EC 50 eastern oyster: 2.8 mg/L

96-hour LC 50 mysid shrimp: 0.23 mg/L

Fish early life-stage (rainbow trout): NOEC >7.7 μg/L, <16 μg/L Chronic toxicity (mysid shrimp): NOEC >15 μg/L, <27 μg/L Chronic toxicity (Daphnia magna): NOEC >52 μg/L, <99 μg/L.

Chlorimuron ethyl technical is minimally toxic to fish:

96-hour LC 50 rainbow trout: greater than 1000 mg/l 96-hour LC 50 bluegill sunfish: greater than 100 mg/l

OTHER NON-TARGET ORGANISM TOXICITY:

Based upon EPA designation, Flumioxazin Technical is practically non-toxic to

bees. The acute contact LC50 in bees was greater than 105 µg/bee.

# 13. DISPOSAL CONSIDERATIONS

#### END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

**PRODUCT DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure 2 more times.

**DISPOSAL METHODS:** Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

### 14. TRANSPORTATION INFORMATION

DOT (ground) SHIPPING NAME: Not regulated for domestic ground transport by U.S. DOT

**EMERGENCY RESPONSE** 

Not Applicable

**GUIDEBOOK NO.:** 

ICAO/IATA SHIPPING NAME: UN 3077 Environmentally Hazardous Substance, Solid, N.O.S. (Flumioxazin), 9,

III, Marine Pollutant

**REMARKS:** •Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from

Dangerous Goods regulations – see IATA Special Provision A197
•For US shipping, Emergency Response Guidebook No. 171

**IMDG SHIPPING NAME:** UN 3077, Environmentally Hazardous Substance, Solid, N.O.S. (flumioxazin),

Marine pollutant

**REMARKS:** •Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from

Dangerous Goods regulations – see IMDG 2.10.2.7

•For US shipping, Emergency Response Guidebook No. 171

EMS NO.: F-A, S-F

# 15. REGULATORY INFORMATION

# **EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:**

This material is a pesticide product registered by the EPA under FIFRA and is subject to certain labeling requirements under federal pesticide law. These requirements may differ from the classification criteria and hazard information required by OSHA GHS for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the FIFRA pesticide label:

### **EPA FIFRA SIGNAL WORD: CAUTION**

- · Harmful if swallowed
- · Avoid breathing dust or spray mist
- · Causes moderate eye irritation
- · Avoid contact with eyes, skin and clothing
- · Keep out of reach of children.

**PESTICIDE REGULATIONS:** All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**U.S. FEDERAL REGULATIONS:** Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

Chlorimuron-ethyl, ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl)

amino]carbonyl]amino]sulfonyl]benzoate

SARA 313 Chemicals 1.0% de minimis concentration

Kaolin clay

TSCA Inventory List - Present

Sodium lauryl sulfate

TSCA Inventory List -

Titanium dioxide

TSCA Inventory List - Present

Quartz (crystalline silica)

TSCA Inventory List - Present

SARA (311, 312):

Immediate Health:YesChronic Health:NoFire:NoSudden Pressure:NoReactivity:No

**STATE REGULATIONS:** Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

Chlorimuron-ethyl, ethyl 2-[[[(4-chloro-6-methoxy-2-pyrimidinyl)

amino]carbonyl]amino]sulfonyl]benzoate
NJ Right To Know 3229

For information regarding potential adverse health effects from exposure to this product, refer to Sections 2 and 11.

# 16. OTHER INFORMATION

**REASON FOR ISSUE:** Correct the transportation information.

SDS NO.: 0321 EPA REGISTRATION NUMBER: 59639-117

**REVISION NUMBER:** 2

**REVISION DATE:** 05/23/2015 **SUPERCEDES DATE:** 05/15/2015

RESPONSIBLE PERSON(S): Valent U.S.A. Corporation, Corporate EH&S, (925) 256-2803

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

Use, storage and disposal of pesticide products is regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling. All necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

The information in this SDS is based on data available to us as of the revision date given herein, and believed to be correct. Contact Valent U.S.A. Corporation to confirm if you have the most current SDS.

Judgments as to the suitability of information herein for the individual's own use or purposes are necessarily the individual's own responsibility. Although reasonable care has been taken in the preparation of such information, Valent extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to the individual's purposes or the consequences of its use.

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