



# TIDE INTERNATIONAL USA, INC.

—A DIVISION OF TIDE GROUP

MAIN OFFICE : 21 HUBBLE, IRVINE, CA 92618, USA

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## Safety Data Sheet (SDS) of Tide Hexar™ 2SL

### Section 1 – Chemical Product and Company Identification

Product name	Tide Hexar™ 2SL
Synonyms name	None
Chemical Class	Triazine-dione
Recommended Use	Herbicide-manufacture use only
<b>Company details</b>	
Importer	TIDE INTERNATIONAL, USA, INC. 21 Hubble, Irvine , CA 92618, USA 84229-35
EPA Reg. No.	CHEMTREC 1-800-424-9300 TIDE INTERNATIONAL, USA, INC. 1-949-679-3535
Emergency phone	

### Section 2 – Hazard Identification

**Classified as Hazardous according to criteria of the Hazard Communication Standard (HCS) or 29 CFR §1910.1200 (2012).**

**Classification of the substance or mixture:**

- Flammable liquid (Category 3)
- Acute Inhalation (Category 4)
- Eye irritation (Category 2B)
- Acute aquatic toxicity (Category 1)

**Label elements**

**HCS labeling**

**Hazard pictograms (HCS)**



**Signal Word:** WARNING

**GHS Hazard Statements:**

- Flammable liquid and vapour.
- May be harmful if swallowed.
- May be harmful in contact with skin.
- Causes eye irritation.
- Harmful if inhaled.



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Very toxic to aquatic life.

#### Other hazard information:

**NFPA Ratings:** Health-2      Flammability-3      Reactivity-0

#### Environmental hazards:

This product is toxic to plants. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### Potential Environmental Effects:

Acutely harmful for aquatic plants.

With high probability not acutely harmful to terrestrial organisms.

### Section 3 - Composition / Information on Ingredients

Active ingredient	CAS No.	Content (w/w,%)	ACIGH TWA
Hexazinone (3-Cyclohexyl-6-(dimethylamino)-1-methyl-1,3,5-triazine-2,4 (1H, 3H)-dione	51235-04-2	25.0	NA
Ethanol	64-17-5	35.0-37.0	1000ppm
Other ingredients	/	Balanced to 100	/

### Section 4 – First Aid Measures

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**If on skin (or hair) or clothing:** Remove/Take off immediately all contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

**If in eyes:** 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 the eye. If eye irritation persists: Get medical advice/attention.

**If Inhaled:** Remove person to fresh air and keep comfortable for breathing. 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.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have



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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.

**Note to physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

## Section 5 – Fire-Fighting Measures

**Flashpoint:** 78.8°F (26°C)

**Combustibility:** No data applicable

**OSHA Flammability Classification:** Flammable

**Flammable Limits (% in Air):** N/A

**Autoginition Temperature:** N/A

**Extinguishing Media:** Water Spray, Foam, Dry Chemical, CO<sub>2</sub>.

### Fire Fighting Instructions:

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. In case of fire: Use manufacturer/supplier or the competent authority to specify appropriate media.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Small fire: If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with water spray.

## Section 6 - Accidental Release Measures

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

### Initial Containment:

Prevent material from entering sewers, waterways, or low areas. Discharge into the environment must be avoided. Follow applicable Federal, State/Provincial and Local laws/ regulations.

### Personal precautions:

Review Fire Fighting Measure and Handling sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up. Emergency response-Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. Use NIOSH approved respiration protection.

### Method for cleaning up:

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

## Section 7- Handling and Storage

KEEP OUT OF REACH OF CHILDREN!



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## Safe handling (Personnel):

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Do not get on clothing. Do not get in eyes. Avoid breathing vapors or mist. Avoid contact with skin. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

## Safe handling (Physical Aspects):

Use only outdoors or in a well-ventilated area.

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/ manufacturer/supplier or the competent authority to specify other equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid release to the environment.

## Requirements for storage rooms:

Keep pesticide in original container. Store in a well-ventilated place. Keep cool. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Do not subject product to temperature below 0°C.

## Section 8 - Exposure Controls / Personal Protection

### Exposure limit values

Components.	CAS-No	Control parameters	Basis
Hexazinone	51235-04-2	NA	NA
Ethanol	64-17-5	1000 ppm TWA 1900 mg/m <sup>3</sup> TWA 3300 ppm IDLH (10% LEL)	NIOSH
		1000 ppm TWA 1900 mg/m <sup>3</sup> TWA	OSHA-Final PELs

### Engineering Controls:

No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapours and mists are minimised. Use only with adequate ventilation. Keep container tightly closed.

### Personal Protective Equipment

#### Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Shoes plus socks



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Protective eyewear

Chemical resistant gloves

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining personal PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Respiratory Protection:** Respiratory protection not necessary. Avoid working in and breathing spray mist. When respiratory protection is necessary under the conditions of use, wear a respirator approved for pesticides by the National Institute for Occupational Safety and Health (NIOSH).

**Hand Protection:** Chemical resistant gloves in Category C (such as butyl rubber, neoprene rubber or nitrile rubber) all greater than or equal to 14 mils.



**Eye Protection:** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



Protective eyewear

**Skin and Body Protection:** To avoid contact with skin, wear long pants, long-sleeved shirt, shoes and socks. An emergency shower or water supply should be readily accessible to the work area.

**Specific Hygiene Measures:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash thoroughly after handling. Wash clothing and other absorbent materials that have been exposed to this product. Follow the manufacturer's instructions for cleaning and maintaining PPE.

**Environmental controls**

See Sections 6, 7, 12, 13.

## Section 9 - Physical and Chemical Properties

**Appearance:** Light yellow volatile liquid

**Odor:** Strong-alcoholic odor

**Odor threshold:** No Data Available

**pH:** 8.36 ±0.04



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**Melting point/freezing point:** No Data Available

**Initial boiling point and boiling range:** No Data Available

**Flammability:** Flammable liquid

**Explosibility:** Non-Explosibility

**Evaporation rate:** No Data Available

**Vapor pressure:**  $<1.33 \times 10^{-5}$  Pa at 25°C for technical

**Vapor density:** No Data Available

**Density:** 0.96  $\pm$  0.0002 g/mL

**Solubility:** Dispersible

**Octanol/water partition coefficient:** log POW = 1.2 at 25°C and pH 7 for technical

**Auto-ignition temperature:** No Data Available

**Decomposition temperature:** No Data Available

**Viscosity:** 0.0046 Pas. at 20°C with shear rate/ 50 sec; 0.0054 Pas. at 20°C with shear rate/ 90 sec; 0.0023 Pas. at 40°C with shear rate/ 50 sec; 0.0029 Pas. at 40°C with shear rate/ 90 sec

These physical data are typical values based on material test but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis and any specific lot or as specification items.

## Section 10 - Stability and Reactivity

**Reactivity:** Product will not undergo polymerization

**Stability:** Stable under normal conditions.

**Incompatible Materials:** Strong oxidizing agents

**Possibility of hazardous reactions:** Will not occur hazardous polymerization.

**Conditions to avoid:** Freezing temperatures. Open flame, sparks and elevated temperatures.

## Section 11 - Toxicological Information

### Toxicity:

Acute oral toxicity: LD50 >2000 mg/kg to rats

Acute dermal toxicity: LD50 >2000mg/kg to rats.

Acute inhalation toxicity: LC50 >3.84mg/L air to rats

Acute dermal irritation: Non skin irritation.

Acute eye irritation: Mildly eye-irritating

Skin sensitization: Non skin sensitizer

**Chronic effects:** Over a 2-week period, male rats receiving dietary doses of 300 mg/kg/day showed no evidence of cumulative toxicity. Male rats receiving doses of 50 mg/kg/day over 90 days showed no effects, but higher doses caused decreased body weights. Body weight gain was seen in dogs at doses of about 35 mg/kg/day and higher over 1 year. Very high doses for 8 weeks did not affect hamsters and caused only increased liver weights in mice.

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1%





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is identified as a carcinogen or potential carcinogen by IARC, ACIGH, NTP, and OSHA.

**Mutagenicity:** Negative for mutagenic.

**Reproductive toxicity:** The NOEL and LOEL for reproductive toxicity were also 200 ppm and 2000 ppm, respectively. Available evidence suggests that hexazinone is unlikely to cause reproductive effects in humans.

**Teratogenicity:** Pregnant female rats receiving doses up to 100 mg/kg/day during gestation, and rabbits receiving up to 125 mg/kg/day, evidenced no fetal abnormalities. Teratogenic effects were observed in rats only at maternal doses greater than 400 mg/kg/day during gestation. It is unlikely that hexazinone would pose a teratogenic effects in humans under normal conditions.

## Section 12 - Ecological Information

### Hexazinone

#### Avian toxicity:

Bird: LD50 for Bobwhite quail 2251 mg/kg bw.

#### Aquatic organism toxicity:

LC50 for Rainbow trout >320 ppm

LC50 for Bluegill sunfish >370 ppm

Daphnia EC50 (48 h) 151.6 ppm.

#### Other non-target organism toxicity:

Bees: Dermal LD50 for honeybees >100 µg/bee.

Macrophytes, Duckweed (*Lemna gibba*): EC50 = 37.4 ppb (14 days)

Unicellular Algae, Green algae (*Selenastrum capricornutum*): EC50 = 7 ppb (12hrs)

Unicellular Algae, Blue-green algae (*Anabaena flos-aquae*): EC50 = 0.21 ppm (12hrs)

#### Environmental Hazards:

Toxic to plants. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. See product label for additional application instructions relating to environmental precautions.

**Movement:** Hexazinone is very poorly adsorbed to soil particles, very soluble in water, and slowly degraded, so it is likely to be mobile in most soils and has the potential to contaminate groundwater.

**Adsorption:** Hexazinone does not evaporate to any appreciable extent from soil. Hexazinone is very poorly adsorbed to soil particles,

**Persistence and Degradation:** Hexazinone is of moderate to high persistence in the soil environment. Measured field half-lives range from less than 30 to 180 days, with a representative value of about 90 days. Hexazinone is broken down by soil microbes, which release carbon dioxide in the process. Sunlight may also break down the compound via photodegradation. The rate of breakdown under natural field conditions will depend on many site-specific variables, including sunlight, rainfall, soil type, and rate of application.



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## Section 13 - Disposal Considerations

Dispose of contents/container in accordance with instructions contained in the product label.

End users must dispose of any unused product as per the label recommendations.

### Pesticide Disposal:

Waste 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.

Refer to the product label for detailed container disposal instructions.

## Section 14 - Transport Information

UN number;	UN1993
Proper Shipping Name:	Flammable Liquids (contains ethanol), 3, III, Marine Pollutant
Technical Shipping Name:	Tide Hexar™ 2SL
Packing Group:	III
Hazard Class:	3
Marine pollutant	Yes (Hexazinone)

## Section 15 - Regulatory Information

### FIFRA –

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. The following is the hazard information as required on the pesticide label:

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed thorough skin. Do not get in eyes, on skin or on clothing.

#### Environmental hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

The active ingredient hexazinone, in this product is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

#### Physical or chemical hazards

**FLAMMABLE.** Keep away from heat and open flame. Do not mix or allow contact with





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oxidizing agents. Hazardous chemical reaction may occur.

## US Federal Regulations

**TSCA list:** The ingredients of this product are listed on the TSCA inventory or are exempt.

**SARA Title III - section 302 - notification and information** None

**SARA Title III - section 313 - toxic chemical release reporting**

Hexazinone CAS 51235-04-2

**SARA Title III - section 311/312 - hazard identification**

Fire hazardous

Acute health hazardous

This product contains none of the components listed as Extremely Hazardous substances.

## US States Regulatory Reporting

### CA Prop65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### State information:

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.

CAS 51235-04-2 can be found on the following state right to know lists: PA, NJ

CAS# 64-17-5 can be found on the following state right to know lists: CA, NJ, PA, MN, MA.

## Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## Environmental

### CERCLA

None

## Section 16 - Other Information

SDS# TIC-HER8422935

Created date: 02/26/2015

Update date:

Revised for:

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