

## SAFETY DATA SHEET

This SDS complies with 29 CFR 1910.1200 (Hazard Communication Standard)  
IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, and users of this product.

### 1. Identification

#### 1.1. Product identifier

<b>Product Identity</b>	Traf-X
<b>Alternate Names</b>	Traf-X
<b>Product Code</b>	111-04

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Intended use</b>	Carpet Traffic lane spotter
<b>Application Method</b>	See Label Instructions

#### 1.3. Details of the supplier of the safety data sheet

<b>Company Name</b>	United Formulas
	601 6th St SW, Unit 5
	Great Falls, MT 59404

#### Emergency

<b>24 hour Emergency Telephone No.</b>	Infotrac: 1 800-535-5053 Emergency: (406) 727-4144
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**Customer Service: United Formulas**

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Eye Irrit. 3;H320	Causes eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



#### Warning

H320 Causes eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

**[Prevention]:**

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P337+313: If eye irritation persists get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391: Collect spillage.

**[Storage]:**

P404: Store in a closed container.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Solvating Agent CAS Number: Proprietary	1.0 - 10	Not Classified	[1]
d'limonene, Citrus, ext. CAS Number: 0094266-47-4	1.0 - 10	Flam. Liq. 3;H226 Asp. Tox. 1;H304 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	[1]
Diethanolamine CAS Number: 0000111-42-2	0.1 – 1.0	Acute Tox. 4;H302 STOT RE 2;H373 Skin Irrit. 2;H315 Eye Dam. 1;H318	[1][2]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Inhalation: Inhalation of mists and vapors may be irritating to respiratory tract. Skin Contact: May cause irritation and burning of tissues and possible allergic reaction. Eye Contact: May cause irritation and burning of tissues. Ingestion: May cause burning or irritation to mucous membranes of mouth, throat, esophagus, and stomach. May cause headaches, nausea, vomiting, apathy and abdominal discomfort. Signs and Symptoms of Exposure: Burning and irritation in all areas of exposure. Medical Conditions Generally Aggravated by Exposure: Respiratory disorders, allergies, and skin sensitivity. See section 2 for further details.
<b>Eyes</b>	Causes eye irritation.
<b>Skin</b>	May cause an allergic skin reaction. Causes skin irritation.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Water

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Burning can produce carbon monoxide and/or carbon dioxide.

Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing.

**ERG Guide No.** ----

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

**6.2. Environmental precautions**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

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

Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with water. Do not use solvents.

Do not allow spills to enter drains or watercourses.

## 7. Handling and storage

**7.1. Precautions for safe handling**

Avoid prolonged contact with skin. Avoid contact with eyes.

See section 2 for further details. - [Prevention]:

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

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

**7.3. Specific end use(s)**

Cleaning applications.

## 8. Exposure controls and personal protection

**8.1. Control parameters****Exposure**

CAS No.	Ingredient	Source	Value
0000111-42-2	Diethanolamine	OSHA	No Established Limit
		ACGIH	TWA: 2 mg/m <sup>3</sup> Skin 2B, Revised 2009; 2010,
		NIOSH	TWA 3 ppm (15 mg/m <sup>3</sup> )
		Supplier	No Established Limit
Proprietary	Solvating agent	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0094266-47-4	d'limonene, Citrus, ext.	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000111-42-2	Diethanolamine	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
Proprietary	Solvating agent	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0094266-47-4	d'limonene, Citrus, ext.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

**8.2. Exposure controls****Respiratory**

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes**

Wear chemical goggles if a splash hazard exists.

**Skin**

Wear plastic or rubber-coated gloves for prolonged contact.

**Engineering Controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	Amber/Orange Liquid
<b>Odor</b>	Slight citrus
<b>Odor threshold</b>	Not Measured
<b>pH</b>	9.0 as is
<b>Melting point / freezing point</b>	Not applicable
<b>Initial boiling point and boiling range</b>	200 - 240 °F
<b>Flash Point</b>	Non-flammable
<b>Evaporation rate (Ether = 1)</b>	Not available
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not applicable <b>Upper Explosive Limit:</b> Not applicable
<b>Vapor pressure (Pa)</b>	Not available
<b>Vapor Density</b>	Not available
<b>Specific Gravity</b>	1.006 g/ml
<b>Solubility in Water</b>	Complete
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not available

Viscosity (cSt) Not available  
 VOC Content Not available

**9.2. Other information**

No other relevant information.

## 10. Stability and reactivity

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

Burning can produce carbon monoxide and/or carbon dioxide.

## 11. Toxicological information

**Acute toxicity**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Solvating agent - (Proprietary)	4,000.00, Rat - Category: 5	2,000.00, Rat - Category: 4	No data available	No data available	No data available
Diethanolamine - (111-42-2)	No data available	No data available	No data available	No data available	No data available
d'limonene, Citrus, ext. - (94266-47-4)	>5,000, Rat - Category: 5	>5,000, Rabbit Category: 5	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	3	Causes eye irritation
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.

Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Solvating agent - (Proprietary)	841.00, Poecilia reticulata	1,000.00, Daphnia magna	Not Available
Diethanolamine - (111-42-2)	Not Available	Not Available	Not Available
d'limonene, Citrus, ext. - (94266-47-4)	0.702, Pimephales promelas (fathead minnow)	69.6, Daphnia pulex (water flea)	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	Not Applicable	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No		
<b>14.6. Special precautions for user</b>			
	No further information		

## 15. Regulatory information

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
<b>Toxic Substance Control Act ( TSCA)</b>	All components of this material are either listed or exempt from listing on the TSCA Inventory.
<b>WHMIS Classification</b>	D2B E
<b>US EPA Tier II Hazards</b>	<b>Fire:</b> No <b>Sudden Release of Pressure:</b> No <b>Reactive:</b> No <b>Immediate (Acute):</b> Yes <b>Delayed (Chronic):</b> No
<b>EPCRA 311/312 Chemicals and RQs (lbs):</b>	Diethanolamine ( 100.00)
<b>EPCRA 302 Extremely Hazardous:</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
<b>EPCRA 313 Toxic Chemicals:</b>	Diethanolamine
<b>Proposition 65 - Carcinogens (&gt;0.0%):</b>	Diethanolamine
<b>Proposition 65 - Developmental Toxins (&gt;0.0%):</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
<b>Proposition 65 - Female Repro Toxins (&gt;0.0%):</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
<b>Proposition 65 - Male Repro Toxins (&gt;0.0%):</b>	To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.
<b>New Jersey RTK Substances (&gt;1%):</b>	Diethanolamine



**Pennsylvania RTK Substances (>1%):**

Diethanolamine

**16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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