



# Material Safety Data Sheet

MSDS: 331

## SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Company:</b> IDQ Operating, Inc. 2901 W Kingsley Rd. Garland, Texas 75041 Phone No.: 1-888-396-0422 CHEMTREC Phone No.: 1-800-298-9164	<b>HAZARD RATING</b> Health: 1 Fire: 0 Reactivity: 0 Special: -- Toxicity: 1	<b>SCALE</b> 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme
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**Product Description:** Automotive UV Dye

**Name:** 331 Universal UV Dye, 0.25 oz  
(Standard package contains 0.25 oz, avoirdupois)

**Product Code:** 331

**MSDS Date:** 1-19-10

## SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

No.	Description	CAS Reg. No.	Units	Amount
1	Dodecane	112-40-3	% wt	0-1.5
2	Butadecane	NA	% wt	0-3.5
3	Pentadecane	629-62-9	% wt	0-3.5
4	Hexadecane	544-76-3	% wt	0-1.5
5	Proprietary Ingredients	NA	% wt	90-98

NA: Not Available; ppm: parts per million

Note: 1 ppm equals 3.8 mg/m<sup>3</sup>; 5 ppm equals 19 mg/m<sup>3</sup>; 10 ppm equals 38 mg/m<sup>3</sup>; 100 ppm equals 380 mg/m<sup>3</sup>.

## SECTION 3: HAZARDS INFORMATION

**Portals of Entry:** Inhalation, ingestion, eye contact, skin contact, and dermal absorption.

**Inhalation:** Inhalation of high vapor concentrations can cause effects including dizziness, weakness, and nausea. Breathing high concentration vapors or prolonged breathing vapors can cause irritation of the nose, throat, mucous membranes, and lungs as well as headaches, drowsiness, and fatigue. Extreme inhalation can cause loss of coordination and unconsciousness.

**Eye Contact:** Liquid splashes may cause eye irritation.

**Skin Contact:** Product can cause skin irritations, dermatitis, defatting of skin, adsorption of certain components in product.

**Ingestion:** The liquid material, if ingested, could cause nausea, gastrointestinal disturbances, headaches, drowsiness, vertigo, gastrointestinal disturbance, abdominal pain, and dizziness.

**Delayed Effects:** Prolonged and repeated overexposure can cause irritation of the respiratory tract and mucous membranes, central nervous system (CNS) effects, blood dysfunction, and kidney effects.

**HEALTH EFFECTS FROM OVEREXPOSURE:**

**Primary Routes of Exposure:** Skin.

**SECTION 4: FIRST AID MEASURES**

**Inhalation:** Inhalation under normal exposure should not cause problems; however if inhalation has resulted in symptoms, move patient to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get prompt medical attention.

**Eye Contact:** Immediately flush eyes with a large amount of water for at least 15 minutes. If symptoms exist and/or persist, get prompt medical attention.

**Skin Contact:** Wash affected skin areas thoroughly with soap and water. Remove contaminated clothing. If skin irritation persists, see a physician.

**Ingestion:** If swallowed, give large quantities of water to drink. Induce vomiting. Careful gastric lavage may be indicated. Immediately see a physician. Never give anything by mouth nor induce vomiting of an unconscious person.

**SECTION 5: FIRE FIGHTING MEASURES**

**Unusual Hazards:** Toxic fumes are generated when material is exposed to fire and fire conditions.

**Extinguishing Agents:** Use the following extinguishing media when fighting fires involving this material: polar solvent foam, carbon dioxide, dry chemical, and water spray.

**Personal Protective Equipment:** Wear self-contained breathing apparatus and full protective gear.

**Special Precautions:** Use water spray to cool large containers exposed to fire. Vapors are denser than air and will have a tendency to accumulate in lower areas which can cause the vapors to concentrate and suffocate. If the product is exposed to fire or an ignition source that results in flammability, extinguish with polar solvent foam, carbon dioxide, dry chemical, and water spray. The product is typically packaged in 0.25 oz container, which aids in isolating product for flammability but creates problems if the containers are exposed to fire or excessive heat that could result in container rupture.

**FIRE AND EXPLOSIVE PROPERTIES:**

PROPERTY	PACKAGED PRODUCT
Flash Point (°C); [°F]:	95/203
Auto-Ignition Temperature (°C):	>390

Lower Explosive Limit (ppm): 9,000

Upper Explosive Limit (ppm): 60,000

#### **SECTION 6: ACCIDENTAL SPILL OR LEAK RELEASE INFORMATION**

**Personal Protection:** Appropriate protective equipment must be worn when handling a large spill of this material. See the PERSONAL PROTECTION MEASURES Section for recommendations. If exposed to material during clean-up operations, see the FIRST AID PROCEDURES Section for actions to follow.

**Procedures:** Evacuate the spill area. Floor may be slippery if product has wetted the floor; use care to avoid falling. Ventilate the spill area. Avoid breathing vapor. Contain material spills immediately with inert adsorption materials. Transfer liquids and solid adsorption materials and diking material to separate suitable containers for recovery or disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

#### **SECTION 7: HANDLING AND STORAGE**

**Storage Conditions:** Store in a cool, well ventilated place. Keep containers dry. Store product away from reactive and corrosive materials. The minimum recommended storage temperature for this material is -29° C/ -20° F. The maximum storage temperature is 49° C/ 120° F.

**Handling Procedures:** The vapor concentration levels in air need to be kept below occupational exposure limits and keep as low as practicable. Do not mix product with air or oxygen under pressure. Avoid exposure of product to flame or very hot surfaces. Vapors can be evolved when material is being used in processing operations. See FACILITY CONTROL MEASURES Section for types of ventilation required.

#### **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Respiratory Protection:** A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If respiratory protection is needed, use, MSHA-NIOSH approved respirator for organic vapors. None required if airborne concentrations are maintained below the TWA/TLV's listed in the COMPONENT EXPOSURE INFORMATION Section.

Up to 10 times the TWA/TLV: Wear a half-mask, air purifying respirator.

Up to 1000 ppm organic vapor: Wear an approved full-face piece, air-purifying respirator.

Above 1000 ppm organic vapor or unknown: Wear an approved positive pressure mode or an approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

Air purifying respirators should be equipped with organic vapor cartridges.

**Eye Protection:** Use eye goggles and/or face shield.

**Hand Protection:** The gloves listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: Polyvinyl alcohol and Viton.

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

**Other Protection:** Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

**FACILITY CONTROL MEASURES:**

**Ventilation:** Use normal local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor or dust evolution.

**Other Protective Equipment:** Facilities storing and utilizing this material should be equipped with an eyewash facility and a safety shower.

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>
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**TYPICAL PHYSICAL PROPERTIES:**

<b>PROPERTY</b>	<b>METRIC UNITS</b>	<b>ENGLISH UNITS</b>
Appearance:	Product in Container	Product in Container
Color:	Yellow	Yellow
State:	Liquid	Liquid
Odor Characteristics:	Bland	Bland
Viscosity (CP @ 20° C); [CP @ 68° F]:	89	89
Specific Gravity (d/do 4°C); [d/do 39°F]	1.023	1.023
Density (gr/cm <sup>3</sup> ); [lb/gal]	1.02	8.51
Vapor Density (Air = 1.0):	6.3	6.3
Vapor Pressure (mm Hg @ 20° C); [psia]:	0.1	0.02
Melting Point (°C); [°F]:	-35	-31
Boiling Point (°C); [°F]:	218/424	218/424
Solubility in Water (gr/100 cm <sup>3</sup> ); [lb/100 in <sup>3</sup> ]:	0.3; very slightly soluble	0.3; very slightly soluble
Evaporation Rate (n-butyl acetate = 1.0):	0.83	0.83

pH (product or water extract)	7	7
Percent Volatility (% wt):	6	6

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Hazardous Decomposition Products:** Thermal decomposition may yield toxic decomposition products which include alkyl low molecular weight components, COx, SOx, and organic pyrolytic components.

**Hazardous Polymerization:** Product will not undergo polymerization.

**Incompatibility:** Avoid contact with strong oxidizing and reducing agents.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACCIDENT PREVENTION INFORMATION:**

**COMPONENT EXPOSURE INFORMATION:**

Component Information:

No.	Description	CAS Reg. No.	Units	Maximum Amount
1	Dodecane	112-40-3	% wt	1.5
2	Butadecane	NA	% wt	3.5
3	Pentadecane	629-62-9	% wt	3.5
4	Hexadecane	544-76-3	% wt	1.5
5	Proprietary Ingredients	NA	% wt	98

**Exposure Information for Specific Component:**

No.	Health Rating	Flam. Rating	Reactivity Rating	Component Units	OSHA		ACGIH			
					TWA	STEL	TWA	STEL	IDLH	HAP
1	1	2	0	ppm	100	400	1000	400	10,000	No
2	1	2	0	ppm	100	400	1000	400	10,000	No
3	1	2	0	ppm	100	400	1000	400	10,000	No
4	1	2	0	ppm	100	400	1000	400	10,000	No
5	1	1	0	ppm	NA	NA	NA	NA	NA	No

**SECTION 12: ECOLOGICAL INFORMATION**

**Persistence and Degradation:** NA.

**SECTION 13: DISPOSAL INFORMATION**

**WASTE DISPOSAL:**

**Procedure:** For disposal, dispose this material at a facility that complies with local, state, and federal regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT Hazard Description:**

**Proper Shipping Name:** NA

**Hazard Class:** NA

**Identification Number:** NA

**Packing Group:** NA

**Hazardous Substance (RQ):** NA

**Placard/Label:** NA

**SECTION 15: REGULATORY INFORMATION**

EPA Regulation:

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health

All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification: This product contains the indicated "\*" toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS NO.	% WT.	REGULATION SECTION	RQ (LBS)
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None

If > NA lbs of this product is in one container, the Reportable Quantity "RQ" of Xylene(s) is exceeded. Based on the composition of SARA Title III ingredients and the RQs of ingredients, listed above, xylene(s) is the most restrictive of the product composition. Typically this product is packaged in 0.25 oz containers.

State Regulations: This product meets requirements of Southern California AQMD Rule 443.1 and Similar Regulations California Proposition 65: This product contains the following chemical known to the State of California to cause cancer: NA

**SECTION 16: OTHER INFORMATION**

All information, recommendations, and suggestions made by IDQ, Inc. ("Company") appearing herein concerning our product are based upon tests and data believed to be reliable. However, because of the variable characteristics of analytical procedures and samples, and the inability to control its customers' uses of the information and recommendations, or the related products or materials, Company makes NO WARRANTY, EXPRESS OR IMPLIED as to the accuracy of the information or recommendations or that such are fit for any general or specific purpose, whatsoever. Company shall have NO LIABILITY arising from the use by its customers or any third parties of the information and recommendations, and it shall be each customer's sole responsibility to determine the suitability for its own use of any information or recommendations provided by Company.