Safety Data Sheet



Revision Date 18-Nov-2015 Version 7 Issuing Date 29-Sep-2015

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

Product Identifier

Product Code 99085VIODYE

Product name RELATECH ULTRA VIOLET DYE

Recommended use of the chemical and restrictions on use

Synonyms

Supplier's details

Recommended use Industrial Use Only. No information available Uses advised against

Details of the Supplier of the Safety Data Sheet

RelaDyne, LLC 9395 Kenwood Rd, Suite 104 Blue Ash, OH 45242

888-830-3156 www.reladvne.com

Emergency Telephone Number INFOTRAC 800-535-5053

2. Hazards Identification

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Aspiration toxicity	Category 2
FLAMMABLE LIQUIDS	Category 4

EMERGENCY OVERVIEW

signal word

WARNING

hazard statements

H305 - May be harmful if swallowed and enters airways

H332 - Harmful if inhaled

Combustible liquid





appearance reddish-amber liquid

Physical State Liquid

Odor slight or none

precautionary statements P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to

extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to industrial incineration plant

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331 - Do NOT induce vomiting

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

3. Composition/information on Ingredients

4. First aid measures

First aid measures for different exposure routes

General Advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin Contact Consult a physician if necessary. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes. Immediate medical attention is not required.

If skin irritation persists, call a physician.

INHALATION Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer

artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition

products.

INGESTION Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce

vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything

by mouth to an unconscious person. Consult a physician.

Protection of First-aidersUse personal protective equipment.

Most important symptoms/effects, acute and delayed

Main Symptoms No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Use:. Dry chemical. Carbon dioxide. (CO2). Water spray. Alcohol-resistant foam.

Unsuitable extinguishing media Keep away from heat and sources of ignition.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

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

Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to **Personal Precautions**

safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback.

Take precautionary measures against static discharges.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into **Environmental Precautions**

surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take

precautionary measures against static discharges.

7. Handling and Storage

Precautions for Safe Handling

Take necessary action to avoid static electricity discharge (which might cause ignition of Advice on safe handling

organic vapors). Do not use mobile phones during handling. Never pierce, drill, grind, cut,

saw or weld any empty container.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

Incompatible Products None known based on information supplied.

8. Exposure Controls/Personal Protection

Control Parameters

Exposure guidelines

Exposure guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Exposure Controls

Engineering Measures Showers

Eyewash stations

Ventilation systems. Apply technical measures to comply with the occupational exposure

limits. Process enclosure and/or ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. Eyewash fountains should be provided in areas where there is

> any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection. If splashes are likely to occur,

wear:. Face-shield. Goggles.

Skin and Body Protection. Wear protective gloves and protective clothing. Wear impervious **Skin and Body Protection**

protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to

Not Established

N/A

prevent skin contact.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved **Respiratory Protection**

respiratory protection should be worn.

Hygiene Measures Remove and wash contaminated clothing before re-use. When using, do not eat, drink or

smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. Physical and Chemical Properties

Physical and Chemical Properties

Liquid **Physical State**

appearance reddish-amber liquid Odor slight or none

odor threshold No information available

Remarks • Method **Property VALUES**

> 85 °C / ~ 185.00 °F

No information available pН

melting point N/A

Boiling point/boiling range ~ 254 °C / 490.00 °F

no data available **Evaporation Rate**

flammability (solid, gas) no data available no data available

Flammability Limits in Air

Flash Point

Upper Flammability Limit No information available **Lower Flammability Limit** No information available vapor pressure No information available **Vapor Density** No information available

Specific gravity 0.88 N/A

Solubility in Other Solvents No information available

Partition coefficient: n-octanol/waterNo information available No Data Available

Autoignition Temperature No information available decomposition temperature No Data Available Kinematic viscosity **Dynamic viscosity** No information available **Explosive Properties** No information available **Oxidizing properties** No information available

OTHER INFORMATION

softening point No information available

Molecular Weight

VOC Content(%) No information available. No information available density

10. Stability and Reactivity

Reactivity

no data available

Chemical Stability

Stable under recommended storage conditions.

Hazardous Reactions

None under normal processing

Conditions to avoid

Heat, flames and sparks.

incompatible materials

None known based on information supplied.

Hazardous decomposition products

May emit toxic fumes under fire conditions.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information

INHALATION Harmful by inhalation.

Eye Contact Avoid contact with eyes.

Skin Contact May be harmful in contact with skin.

INGESTION MAY BE HARMFUL IF SWALLOWED.

Information on Toxicological Effects

Symptoms No information available.

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

sensitizationNo information available.Germ cell mutagenicityNo information available.carcinogenicityNo information available.Reproductive ToxicityNo information available.Specific target organ systemicNo information available.

toxicity (single exposure)

Specific target organ systemic

No information available.

toxicity (repeated exposure)

Aspiration Hazard No information available.

Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5001 mg/kg
ATEmix (dermal) 3126 mg/kg
ATEmix (inhalation-gas) 1167
ATEmix (inhalation-dust/mist) 2.5 mg/l

12. Ecological Information

ecotoxicity

40% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other Adverse Effects No information available

13. Disposal Considerations

Waste treatment

Waste Disposal Methods Should not be released into the environment. Dispose of in accordance with local

regulations. This material, as supplied, is not a hazardous waste according to state and

federal regulations (40 CFR 261).

Contaminated Packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT

Description NOT REGULATED

MEX

IATA

Description NOT REGULATED

<u>IMDG</u>

Description NOT REGULATED

RID

ADN

15. Regulatory Information

International Inventories

TSCA Listed
EINECS/ELINCS Listed
DSL Listed

NDSL Not Determined

PICCS Listed

ENCS Not Determined

IECSC Listed AICS Listed

KECL Not Determined

NZIoC Listed

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

SDS #:209 RELATECH ULTRA VIOLET DYE

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

REACH registration number

Keystone has taken all relative steps to ensure REACH-Compliance. Please contact us with

any REACH-Related questions at REACH@Keystone-Europe.CO.UK

RESTRICTIONS - REACH TITLE VIII No information available

US 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

SARA 311/312 Hazard Categories

Acute health hazard	YES.
Chronic health hazard	YES.
Fire hazard	YES.
Sudden Release of Pressure Hazard	NO.
Reactive Hazard	NO.

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

US State Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
<3% DMSO Extracts,	Х			X	
Distillates (petroleum),					
hydrotreated light					
naphthenic (NOT					
carcinogenic because < 3 %					
DMSO as measured by IP					
346 Note L of Annex 1)					

International regulations

Mexico - Grade

Slight risk, Grade 1.

CANADA

WHMIS Note

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

WHMIS Hazard Class

B3 Combustible liquid D2A Very toxic materials





HMIS Health Hazard 1* flammability 2 Physical hazard 0 PERSONAL PROTECTION H

16. Other Information

Revision Date 18-Nov-2015

Revision noteRestrictions on use
No information available.
No information available.

Contact Information Website

WWW.DYES.COM.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Material Safety Data Sheet