

Safety Data Sheet according to EC-Regulation 91/155/EEC

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Universal Dye

Use of the substance/preparation

Leak detector

Company/undertaking identification

UView Ultraviolet Systems Inc., 1324 Blundell Road, CA-L4Y 1M5 Mississauga, Ontario
Telephone +1 905 615 8620, Fax +1 905 615 9745
www.uview.com

Emergency telephone / Office for advice

Advisory office in case of poisoning:

Tel.: CHEMTREC +1 703 527-3877 (outside the USA), 800 424-9300 (within the USA)

Telephone number of the company in case of emergencies:

Tel.

2. Composition/information on ingredients

Mixture of:

Dyes

Hydrocarbon mixture

| 2.1 Chemical name | content % | symbol | R-phrases | EINECS, ELINCS |
|---|-----------|--------|-----------|-------------------|
| Solvent naphtha (petroleum), heavy arom. For complete wording of the R-phrases, refer to point 16. | 10 - 20 | Xn | 65-66-67 | 265-198-5 |

3. Hazards identification

3.1 To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

The following may occur:

Vapours may cause drowsiness and dizziness

3.2 To the environment

n.av.

4. First aid measures

4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Keep Data Sheet available.

4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

4.5 Special resources necessary for first aid

n.c.

5. Fire-fighting measures

5.1 Suitable extinguishing media

Foam
CO2
Water jet spray
Dry extinguisher
Cool container at risk with water.

5.2 Extinguishing media which must not be used for safety reasons

n.c.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:
Oxides of carbon
Toxic pyrolysis products.
Flammable vapour/air mixtures.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Remove possible causes of ignition - do not smoke.
Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental measures

If leakage occurs, dam up.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium, sand, kieselguhr) and dispose of according to point 13.

7. Handling and storage

7.1 Handling

Tips for safe handling:

See point 6.1
Ensure good ventilation.
Avoid inhalation of the vapours.
Keep away from sources of ignition - Do not smoke.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Wash hands before breaks and at end of work.
General hygiene measures for the handling of chemicals are applicable.
Observe directions on label and instructions for use.

7.2. Storage

Requirements for storage rooms and containers:

Store products only unopened, in original packing.
Not to be stored in gangways or stair wells.

Special storage conditions:

See point 10.2
Protect against moisture and store closed.
Protect from direct sunlight and warming.

8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

| | | | |
|---|--|-----|--|
| Chemical Name | Solvent naphtha (petroleum), heavy arom. | | |
| WEL-TWA: ** 20 ppm (100 mg/m ³) (AGW) | WEL-STEL: ** 4 (AGW) | --- | |
| BMGV: --- | Other information: --- | | |

Ⓢ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.1 Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter A (EN 141)

8.2 Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective Neopren gloves (EN 374).

Protective nitrile gloves (EN 374)

Protective hand cream recommended.

8.3 Eye protection:

Tight fitting protective goggles with side protection (EN 166).

8.4 Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

9. Physical and chemical properties

Physical state:

Liquid

Colour:

Yellow, Light brown

Odour:

Aromatic

pH-value undiluted:

n.av.

Boiling point/range (°C):

217 - 293

Melting point/range (°C):

n.av.

Flash point (°C):

88 cc

Flammability (solid/gas):

n.c.

Density (g/ml):

0,97

Solubility in water:

Insoluble

Vapour density (air = 1):

> 1

Viscosity:

52,6 mm²/sec/40°C (DIN 51562), 45sec/4mm/20°C (DIN 53211)

10. Stability and reactivity

10.1 Conditions to avoid

See point 7

Stable when handled and stored correctly.

10.2 Materials to avoid

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.3 Hazardous decomposition products

See point 5.3

No decomposition when used as directed.

11. Toxicological information

11.1 Acute toxicity and immediate effects

| | |
|--|--------|
| Ingestion, LD50 rat oral (mg/kg): | > 2000 |
| Inhalation, LC50 rat inhal.(mg/l/4h): | n.av. |
| Skin contact, LD50 rat dermal (mg/kg): | n.av. |
| Eye contact: | n.av. |

11.2 Delayed and chronic effects

| | |
|------------------------|----------|
| Sensitization: | n.c. |
| Carcinogenicity: | n.c. |
| Mutagenicity: | n.c. |
| Reproductive toxicity: | n.c. |
| Narcosis: | Possible |

11.3. Further information

No classification according to calculation procedure.

The following may occur:

Irritation of the eyes

On vapour formation:

Warning - this preparation contains a substance not yet tested completely.

Irritation of the respiratory tract,The following may occur:

Headaches,Irritation of the eyes

Dizziness,With long-term contact:

Dermatitis (skin inflammation),Nausea

Effect on the central nervous system,Headaches

Unconsciousness,Irritation of the respiratory tract

Effect on the central nervous system,With long-term contact:

Repeated exposure may cause skin dryness or cracking.,Drying of the skin.

Dermatitis (skin inflammation),Vapours may cause drowsiness and dizziness

12. Ecological information

| | |
|--------------------------------|-------------|
| Water hazard class (Germany): | 2 |
| Self classification: | Yes (VwVwS) |
| Persistence and degradability: | n.av. |
| Behaviour in sewage plants: | n.av. |
| Aquatic toxicity: | n.av. |
| Ecological toxicity: | n.av. |

13. Disposal considerations

13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

07 03 04 other organic solvents, washing liquids and mother liquors

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

15 01 04 metallic packaging

15 01 02 plastic packaging

15 01 01 paper and cardboard packaging

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. Transport information

General statements

UN-Number: n.a.

Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

Transport by sea

IMDG-code: n.a. (class/packing-group)

Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing-group)

Additional information:

Non-dangerous material according to Transport Regulations.

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Not applicable

Indications of danger: --

R-phrases:

67 Vapours may cause drowsiness and dizziness.

S-phrases:

--

Additions: n.a.

Safety data sheet available for professional user on request.

Observe restrictions: n.a.

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3B

Revised points: 2, 3, 5, 7, 8, 10, 11, 13, 14, 15, 16

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

65 Harmful: may cause lung damage if swallowed.

65 Also harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40
AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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