

1 Identification

- **Product identifier**
 - *Product number* CLT4P09
 - *Trade name:* **UNIVERSAL WHITE SOLVENT DYE**
 - *Application of the substance / the mixture* For professional use
- **Details of the supplier of the safety data sheet**
 - *Manufacturer/Supplier:*
IVM Chemicals Srl
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441
 - *Information department:*
Environmental Health and safety office
hseoffice@ivmchemicals.com
 - *Emergency telephone number:*
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Repr. 1 H360 May damage fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- *GHS label elements*

The product is classified and labeled according to the Globally Harmonized System (GHS).

- *Hazard pictograms*



GHS02



GHS07



GHS08

- *Signal word* Danger

- *Hazard-determining components of labeling:*

1-methoxy-2-propanol

2-methoxypropanol

- *Hazard statements*

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

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H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

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

Additional information:

5.8 % of the mixture consists of component(s) of unknown toxicity.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

Dangerous components:

107-98-2	1-methoxy-2-propanol Flam. Liq. 3, H226 STOT SE 3, H336	50-74.9%
111-76-2	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	10-12.49%
1589-47-5	2-methoxypropanol Flam. Liq. 3, H226 Repr. 1B, H360 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335	0.1-<0.5%

4 First-aid measures

Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

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- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Take off immediately all contaminated clothing, include underwear and shoes (if necessary).
Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist , consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
 - **Most important symptoms and effects, both acute and delayed**
For symptoms and effects caused by substances, refer to Section 11.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:** Alcohol resistant foam, CO, powder, water spray/mist.
 - **For safety reasons unsuitable extinguishing agents:**
Do not use a jet water stream as it may scatter and spread fire.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.
- **Protective equipment:**
Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-I:		
107-98-2	1-methoxy-2-propanol	100 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m3
21645-51-2	aluminium hydroxide	8.7 mg/m3
1314-23-4	zirconium dioxide	14 mg/m3

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· PAC-2:		
107-98-2	1-methoxy-2-propanol	160 ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m3
21645-51-2	aluminium hydroxide	73 mg/m3
1314-23-4	zirconium dioxide	110 mg/m3
· PAC-3:		
107-98-2	1-methoxy-2-propanol	660 ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m3
21645-51-2	aluminium hydroxide	440 mg/m3
1314-23-4	zirconium dioxide	680 mg/m3

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Provide solvent resistant, sealed floor.
Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
In cases where there is no reported expiration date, it means that the product must be used within 8 months.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep receptacle tightly sealed.

· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m , 150 ppm Long-term value: 360 mg/m , 100 ppm
TLV	Short-term value: 369 mg/m , 100 ppm Long-term value: 184 mg/m , 50 ppm

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111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m , 50 ppm Skin
REL	Long-term value: 24 mg/m , 5 ppm Skin
TLV	Long-term value: 97 mg/m , 20 ppm BEI

Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BEI	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis
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Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Pregnant women should strictly avoid inhalation or skin contact.

Breathing equipment: Not required.

Protection of hands:



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:

Fluid

· Color:

According to product specification

· Odor:

Strong

· Odor threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

100 °C (212 °F)

· Flash point:

35 °C (95 °F)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

240 °C (464 °F)

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not selfigniting.

· Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

· Lower:

1.1 Vol %

· Upper:

20.0 Vol %

· Vapor pressure at 20 °C (68 °F):

12 hPa (9 mm Hg)

· Density at 20 °C (68 °F):

1.187 g/cm³ (9.906 lbs/gal)

· Relative density

Not determined.

· Vapor density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with

· Water:

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

· Dynamic:

Not determined.

· Kinematic at 20 °C (68 °F):

30 s (ISO 3 mm)

· Oxidising properties:

N.A.

· Solvent content:

· Water:

0.1 %

· VOC content:

68.1 %

808.6 g/l / 6.75 lb/gal

· Solids content:

31.8 %

· Other information (HAPS)

None of the ingredients is listed.

· Other information

No further relevant information available.

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10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
 - **Chemical stability** The product is stable in normal conditions of storage and use recommended
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

107-98-2 1-methoxy-2-propanol

Oral	LD50	4016 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	54.6 mg/l (rat/szczur/mouse/souris/Maus/ratón)

111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rab)

· Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

5.8 % of the mixture consists of component(s) of unknown toxicity.

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
7631-86-9	silicon dioxide, chemically prepared	3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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12 Ecological information

· Toxicity

· Aquatic toxicity:

107-98-2 1-methoxy-2-propanol

EC50	23300 mg/l (daphnia) (48 h)
LC50 (96h)	6812 mg/l (Fish)

111-76-2 2-butoxyethanol

EC50	101 mg/l (daphnia) (24 h)
LC50 (96h)	101 mg/l (Fish)

· **Persistence and degradability** No further relevant information available.

· Behavior in environmental systems:

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

· Uncleaned packagings:

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT

NA1263

· IMDG, IATA

UN3092

· UN proper shipping name

· DOT

Paint

· IMDG, IATA

1-METHOXY-2-PROPANOL mixture

· Transport hazard class(es)

· DOT



· Class

3 Flammable liquids


· Label

3

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<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids 3
<ul style="list-style-type: none"> · IMDG, IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids 3
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA 	III
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category 	Warning: Flammable liquids 30 F-E,S-D A
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: · Remarks: 	Classification: 3 ADR P.G. III UN 1866 RESIN SOLUTION when packages > 450 liters IMDG 3 P.G. III UN 1866 RESIN SOLUTION when packages > 30 liters
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 1263 PAINT, SPECIAL PROVISION 640E, 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

Requirements of Federal Register

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings) :

111-76-2	2-butoxyethanol	10-12,49%
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· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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· **Proposition 65**

· **Chemicals known to cause cancer:**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	20-24.9%
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· **Chemicals known to cause reproductive toxicity for females:**

1589-47-5	2-methoxypropanol		0.1-<0.5%
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

111-76-2	2-butoxyethanol	NL	10-12,49%
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· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
111-76-2	2-butoxyethanol	A3
1314-23-4	zirconium dioxide	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	20-24.9%
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· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** See emergency phone

· **Date of preparation / last revision** 11/24/2016 / 65

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids . Category 3

Flam. Liq. 4: Flammable liquids . Category 4

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Safety Data Sheet
29 CFR Parts 1910 1915 1926

Printing date 11/24/2016

Version number 66

Reviewed on 11/24/2016

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*Acute Tox. 4: Acute toxicity . Category 4**Skin Irrit. 2: Skin corrosion/irritation . Category 2**Eye Dam. 1: Serious eye damage/eye irritation . Category 1**Eye Irrit. 2A: Serious eye damage/eye irritation . Category 2A**Repr. 1: Reproductive toxicity . Category 1**Repr. 1B: Reproductive toxicity . Category 1B**STOT SE 3: Specific target organ toxicity (single exposure) . Category 3***• Sources***REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments**Directive 67/548/EEC and following amendments and adjustments**Agency ECHA web site**INRS Fiche Toxicologique**IARC International agency for research on cancer***• * Data compared to the previous version altered.**

US