

SAFETY DATA SHEET

VITRAL

Version: 1

First edition date: 12/05/2021

RE EC/2016-918 - CLP 1272/2008

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1. 1. Preparation name: VITRAL
1. 1. 1. Formula: 191396
1. 1. 2. Product code nr: P5010565
1. 1. 3. Other means of identification: UFI : PE90-80GR-100M-X1J1
1. 2. Details of the supplier of the safety data sheet: HYPROS SA
Chemin du pont centenaire 144
CH - 1228 Plan-les-ouates
Tél: 0041 22 338 35 00
Télécopie: 0041 22 338 35 01
Mail: hypros@hypros.com
1. 3. Person to contact (name, division, address, phone): Mail: hypros@hypros.com
1. 4. Emergency telephone number: 01/251 51 51 (centre Toxique) ou 15.
1. 5. Relevant identified uses of the substance or mixture and uses advised against: Identified uses:
Modern glass and surface cleaner
Uses advised against:
This product should not be used in applications other than those recommended in section 1.

2. HAZARDS IDENTIFICATION

2. 1. Classification of the substance or mixture: * Flam. Liq. 3 / GHS02 - H226 *
* Irr. oc. 2A / GHS07 - H319 *

2. 2. Label elements:



Warning

2. 2. 1. Symbol(s) and signal word: Warning
2. 2. 2. Hazard statement: H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
2. 2. 3. Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
2. 2. 4. Response: P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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.
P337+P313 If eye irritation persists: Get medical advice / attention.
2. 2. 5. Storage: P403 Store in a well-ventilated place.
2. 2. 6. Disposal:
2. 3. Other hazards: Repeated or prolonged exposure may cause skin irritation and dermatosis due to the degreasing properties of the product.

3. COMPOSITION / INFORMATION ON INGREDIENTS



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3. 1. Component(s) contributing to the hazard:

• propan-2-ol; isopropyl alcohol; isopropanol
- Id nr: 603-117-00-0 - CE nr: 200-661-7 - CAS nr: 67-63-0
- REACH registration number : 01-2119457558-25
- Conc. (weight %) : Conc. (% pds) : % 15 < C < 20
- GHS (Globally Harmonized System)
* GHS02 * Liq. infl. 2 - H225
* GHS07 * STOT un. 3. - H336 * Irr. oc. 2 - H319
- Miscellaneous :
DNEL / Workers / Inhalation / Systemic effects, in the long run = 500 mg/m³
DNEL / Workers / Dermal / Systemic effects, in the long run = 888 mg/kg of body weight/day
DNEL / Consumers / Inhalation / Systemic effects, in the long run = 89 mg/m³
DNEL / Consumers / Dermal / Systemic effects, in the long run = 319 mg/kg of body weight/day
DNEL / Consumers / Oral / Systemic effects, in the long run = 26 mg/kg of body weight/day
PNEC / Ground (agricultural) = 28 mg/kg
PNEC / Marine water = 140,9 mg/l
PNEC / Marine sediment = 552 mg/kg
PNEC / Water treatment worn = 2251 mg/l
PNEC / Waters fresh = 140,9 mg/l
Exposure limit values
T.L.V. ppm = 250 - T.L.V. mg/m³ = 650

• 1-methoxy-2-propanol; monopropylene glycol methyl ether
- Id nr: 603-064-00-3 - CE nr: 203-539-1 - CAS nr: 107-98-2
- REACH registration number : 01-2119457435-35
- Conc. (weight %) : Conc. (% pds) : % 1 < C <= 5
- GHS (Globally Harmonized System)
* GHS02 * Liq. infl. 3 - H226
* GHS07 * STOT un. 3. - H336
- Miscellaneous :
Exposure limit values
T.L.V. ppm = 100 - T.L.V. mg/m³ = 375 - S.T.E.L ppm = 150 - S.T.E.L mg/m³ = 568

The wording of the sentences are mentioned at heading 16.

4. FIRST AID MEASURES

4. 1. Description of first aid measures:

4. 1. 1. General advice: In case of doubt or persistent symptoms, consult always a physician.
4. 1. 2. Inhalation: Take victim to fresh air, in a quiet place and if necessary take medical advice.
4. 1. 3. Skin contact: Take off immediately all contaminated clothing.
Wash with water and soap as a precaution.
4. 1. 4. Eye contact: Remove contact lenses, if present and easy to do. Continue rinsing.
4. 1. 5. Ingestion: If swallowed, seek medical advice immediately and show this container or label.

4. 2. Most important symptoms and effects, both acute and delayed:

4. 2. 1. Inhalation: Exposure to organic solvent vapours may result in adverse health effects such as vomiting, loss of consciousness.
Call a physician immediately.
4. 2. 2. Skin contact: Immediately remove all soiled or splashed clothing.
Wash off with soap and plenty of water.
4. 2. 3. Eyes contact: Causes serious eye irritation.
4. 2. 4. Ingestion: Ingestion may lead to severe respiratory difficulties, stimulation of the central nervous system and in extreme cases unconsciousness.

4. 3. Indication of any immediate medical attention and special treatment needed :

Notes to physician

5. FIREFIGHTING MEASURES

5. 1. Extinguishing media: dry chemical powder, alcohol resistant foam, carbon dioxide (CO₂), water spray, sand, earth.

5. 2. Special hazards arising from the substance or mixture: Risk of fire above 35 ° C

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5. 3. Advice for firefighters: Use a self-contained breathing apparatus and also a protective suit.
5. 4. Specific method(s): Cool containers / cisterns / tanks with water spray if possible.
5. 5. Extinguishing media which must NOT be used for safety reasons: Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES

6. 1. Personal precautions, protective equipment and emergency procedures: Evacuate personnel to a safe area.
Remove all sources of ignition.
Ensure adequate ventilation.
6. 2. Environmental precautions: Prevent liquid from entering sewers, watercourses, underground or low areas.
Do not reject the pure product.
6. 3. Methods and material for containment and cleaning up: Soak up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).
Shovel or sweep up and put in a closed container for disposal.
6. 4. Reference to other sections: Concerning personal protective equipment to use, see item 8.
Concerning disposal elimination after cleaning, see item 13.

7. HANDLING AND STORAGE

7. 1. Handling:
7. 1. 1. Precautions for safe handling: Dust may form flammable mixture with air.
When using do not smoke.
7. 1. 2. Technical condition(s): Maximum handling temperature: 35 ° C
7. 1. 3. Safe handling advice(s): Read label before use.
Do not handle until all safety precautions have been read and understood.
Keep out of reach of children.
Keep container closed when not in use.
Open container carefully to avoid spurting.
7. 2. Storage:
7. 2. 1. Conditions for safe storage, including any incompatibilities: Keep out of the reach of children.
Store always product in container of same material as original container.
Do not spray on an open flame or other ignition source.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed in a cool place.
Keep container tightly closed and in a well-ventilated place.
7. 2. 2. Storage condition(s): Keep container in a well ventilated place.
Keep away from sources of ignition - No smoking.
Keep away from food, drink and animal feedingstuffs.
Keep at temperature not exceeding (°C): 35°C
Containers which are opened should be properly resealed and kept upright to prevent leakage.
7. 2. 3. Separation of incompatible product(s): Incompatible with oxidizing agents. Do not store together with oxidizing and self-igniting products.
Keep away from food, drink and animal feeding stuffs.
7. 2. 4. Packaging / tank material: made of the same material as the supply container.
7. 3. Specific end use(s): Glass cleaner for professional use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. 1. Control parameters:
8. 1. 1. Exposure limit(s):
- propan-2-ol; isopropyl alcohol; isopropanol :
T.L.V. ppm = 250 - T.L.V. mg/m³ = 650
 - 1-methoxy-2-propanol; monopropylene glycol methyl ether :
T.L.V. ppm = 100 - T.L.V. mg/m³ = 375 - S.T.E.L ppm = 150 - S.T.E.L mg/m³ = 568

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DNEL :

PROPAN-2-OL - N°CAS: 67-63-0

Industry - Dermal; Long term systemic effects: 888 mg / kg / day

Industry - Inhalation; Long term systemic effects: 500 mg / m³

Consumer - Dermal; Long term systemic effects: 319 mg / kg / day

Consumer - Inhalation; Long term systemic effects: 89 mg / m³

Consumer - Ingestion; Long term systemic effects: 26 mg / kg / day

1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2

Workers - Inhalation; Long term systemic effects: 369 mg / m³

Workers - Inhalation; Short term Local effects: 553.5 mg / m³

Workers - Dermal; Long term systemic effects: 50.6 mg / kg bw / day

General population - Inhalation; Long term systemic effects: 43.9 mg / m³

General population - Dermal; Long term systemic effects: 18.1 mg / kg bw / day

General population - Oral; Long term systemic effects: 3.3 mg / kg bw / day

PNEC :

PROPAN-2-OL - N°CAS: 67-63-0

- Fresh water; 140.9 mg / l

- Marine water; 140.9 mg / l

- intermittent rejection; 140.9 mg / l

- Wastewater treatment plant; 2251 mg / l

- Sediments (fresh water); 552 mg / kg

- Sediments (Marine water); 552 mg / kg

- Ground; 28 mg / kg

1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2

- Fresh water; 10 mg/l

- Marine water; 1 mg/l

- intermittent rejection; 100 mg/l

- STP; 100 mg/l

- Sediments (fresh water); 52.3 mg/kg p.c. /jour

- Sediments (Marine water); 5.2 mg/kg p.c. /jour

- Ground; 5.49 mg/kg

8. 1. 2. Recommended monitoring procedures:

1-méthoxy-2-propanol No.-CAS 107-98-2

INRS (FR), Skin designation: Can be absorbed through the skin

8. 2. Exposure controls:

8. 2. 1. Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.

8. 2. 2. Eye protection:

Wear safety glasses conforming to a valid standard if the risk assessment indicates that contact with the eyes is possible. The following protection should be worn: Chemical splash goggles. Protective equipment for the eyes and face must comply with European standard NF EN 166.

8. 2. 3. Respiratory protection:

Wear suitable respiratory protection if ventilation is not insufficient. Organic vapor filter. Combined filter, type A2 / P2. EN 136/140/141/145/143/149

8. 2. 4. Hand protection:

Select the most suitable gloves in consultation with the glove supplier / manufacturer, who can provide information on the breakthrough time of the glove material. Gloves selected should have a break-through time of at least 8 hours. Nitrile rubber. Thickness:> 0.35 mm Butyl rubber. Thickness:> 0.5 mm The selected gloves should have a breakthrough time of at least 4 hours. Chloroprene rubber. Thickness:> 0.4 mm. To protect hands against chemicals, gloves must comply with European standard NF EN 374.

8. 2. 5. Skin and body protection:

Wear an apron or protective clothing in case of contact.

8. 3. Environmental exposure controls:

Do not discharge into surface water or sewers.
Avoid penetration into the basement.

8. 4. Hygiene measure(s):

Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with the skin and the eyes.
When using, do not eat, drink or smoke.
Wash hands immediately after handling the product.
Use appropriate ventilation.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9. 1. Information on basic physical and chemical properties:

9. 1. 1. Physical state:	clear liquid
9. 1. 2. Colour:	Blue
9. 1. 3. Odour:	alcoholic
9. 1. 4. Melting point / freezing point:	Not applicable
9. 1. 5. Boiling point or initial boiling point and boiling range:	Not determined
9. 1. 6. Flammability:	not available
9. 1. 7. Lower and upper explosion limit:	Not determined
9. 1. 8. Flash point:	36°C
9. 1. 9. Auto-ignition temperature:	Not determined
9. 1. 10. Decomposition temperature:	Not determined
9. 1. 11. PH:	8,66
9. 1. 12. Solubility:	Soluble
9. 1. 13. Water solubility:	Soluble
9. 1. 14. Fat solubility:	Not determined
9. 1. 15. Solvent solubility:	Not determined
9. 1. 16. Partition coefficient n-octanol/water (log value):	Not available
9. 1. 17. Vapour pressure:	Not available
9. 1. 18. Relative vapour density:	Not available
9. 1. 19. Density and/or relative density:	20°C: 0,97 +/- 0,02
9. 1. 20. Particle characteristics:	not applicable
9. 1. 21. Kinematic viscosity:	Not applicable.
9. 2. Other information:	
9. 3. Other information:	% VOC : 24 %

10. STABILITY AND REACTIVITY

10. 1. Reactivity:	Stable in use and storage conditions as recommended in item 7.
10. 2. Chemical stability:	The preparation is stable under the handling and storage conditions recommended in section 7 of the SDS..
10. 3. Possibility of hazardous reactions:	Solvent vapors can form explosive mixtures with air.
10. 4. Conditions to avoid:	Avoid heat, flames and all other sources of ignition.
10. 5. Incompatible materials:	Powerful oxidizers. Strong acids. Alkali metals. Amines. Aluminum. Iron.
10. 6. Hazardous decomposition products:	Do not breathe fumes.

11. TOXICOLOGICAL INFORMATION

11. 1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

11. 1. 1. General information(s):	No available information on preparation. Component information (Suppliers SDS) entering the mixture
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11. 1. 2. Inhalation: PROPAN-2-OL - N°CAS: 67-63-0
LC50 (6h) > 10000 ppm, Inhalation, Rat OECD 403
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
LC50 > 25.8 mg / l, 6 hours, Vapor Rat
11. 1. 3. Skin contact: PROPAN-2-OL - N°CAS: 67-63-0
LD50: 13900 mg / kg (Rabbit) (OECD Test Guideline 402)
No skin irritation (OECD Test Guideline 404). Degreases the skin which can cause dryness and roughness of the skin. Prolonged or repeated contact with the skin may result in dermatitis.
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
LD50: > 2000 mg / kg (Rabbit)
Prolonged contact with the skin may cause redness and irritation.
11. 1. 4. Eyes contact: PROPAN-2-OL - N°CAS: 67-63-0
Causes serious eye irritation.
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
May cause temporary eye irritation.
11. 1. 5. Ingestion: PROPAN-2-OL - N°CAS: 67-63-0
LD50: 5840 mg / kg (Rat) (OECD Test Guideline 401)
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
LD50: 4016 mg / kg (Rat, male and female) (Directive 67/548 / EEC, Annex V, B.1.)
Ingestion may cause central nervous system depression.
11. 1. 6. Sensitisation: PROPAN-2-OL - N°CAS: 67-63-0
Respiratory sensitization: Not sensitizing.
Skin sensitization: Not sensitizing.
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
Respiratory sensitization: No information available.
Skin sensitization: Not sensitizing. Guinea pig
11. 1. 7. Toxicity of repeated or prolonged exposure: PROPAN-2-OL - N°CAS: 67-63-0
Single exposure STOT one: No information available.
Repeated exposure STOT resp. : No information available.
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
Single exposure STOT one: May cause drowsiness or dizziness.
Target organs: Central nervous system
- Repeated exposure STOT resp. : NOAEL 919 mg / kg, Oral, Rat NOAEL 3.7 mg / l, Inhalation, Rat NOAEL > 1000 mg / kg, Dermal, Rabbit
11. 2. Information on other hazards: Not available
11. 2. 1. Specific effect(s): Use of alcoholic beverages may enhance toxic effects.

12. ECOLOGICAL INFORMATION

12. 1. Toxicity: PROPAN-2-OL - N°CAS: 67-63-0
Acute toxicity - fish: LC50, 48 hours: 9640 mg / l, Pimephales promelas (Fathead minnow)
Acute toxicity - aquatic invertebrates: EC50, 48 hours: 10000 mg / l, Daphnia magna
Acute toxicity - aquatic plants: EC50, 7 days: 1800 mg / l, Algae
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
Acute toxicity - fish: LC50, 96 hours: 4600-10000 mg / l, Fish
Acute toxicity - aquatic invertebrates: EC50, 96 hours: > 1000 mg / l, Selenastrum capricornutum
Acute toxicity - aquatic plants: EC50, 7 days: 1800 mg / l, Algae
Acute toxicity - microorganisms: IC50, 3 hour: > 1000 mg / l, OECD 209
12. 2. Persistence and degradability: PROPAN-2-OL - N°CAS: 67-63-0
The product is easily biodegradable.
Biological oxygen demand: 53%
- 1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
The product is easily biodegradable.
Biodegradation: 96% degradation: 28 days - OECD 301E

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12. 3. Bioaccumulative potential: PROPAN-2-OL - N°CAS: 67-63-0
The product is not bioaccumulative.
Partition coefficient: log Pow: 0.05 OECD 107

1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
substance not potentially bioaccumulative.
Partition coefficient: -0.49
12. 4. Mobility in soil: PROPAN-2-OL - N°CAS: 67-63-0
water soluble

1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
Miscible in water.
12. 5. Results of PBT and vPvB assessment: PROPAN-2-OL - N°CAS: 67-63-0
This substance is not classified as PBT or vPvB according to current EU criteria.

1-MÉTHOXY-2-PROPANOL - N° CAS: 107-98-2
This substance is not classified as PBT or vPvB according to current EU criteria.
12. 6. Endocrine disrupting properties: Undetermined
12. 7. Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

13. 1. Waste treatment methods: Collect all waste in appropriate labeled containers and dispose of in accordance with local regulations.
13. 2. Contaminated packaging: Dispose of waste at an approved waste disposal site according to the requirements of the local waste disposal authority.

14. TRANSPORT INFORMATION

14. 1. General information(s): Transport followed ADR, IMDG, IATA
14. 2. UN number or ID number: 1993
14. 2. 1. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains propan-2-ol and 1-methoxy-2-propanol)
14. 3. Land (Road / Railway: ADR/RID):
- 14. 3. 1. Transport hazard class(es): 3
 - 14. 3. 2. Packing group: III
 - 14. 3. 3. TREM-CARD code: 30
 - 14. 3. 4. ADR/RID-Labels: 3
 - 14. 3. 5. Code danger: 30
 - 14. 3. 6. Classification code: F1 274 601 640E
 - 14. 3. 7. Packing instructions: P001 IBC03 LP01 R001
 - 14. 3. 8. Tunnel restriction code: D/E
14. 4. Sea (IMDG):
- 14. 4. 1. Class: 3
 - 14. 4. 2. Packaging group: III
 - 14. 4. 3. Marine pollutant: not
 - 14. 4. 4. EmS number: F-E, S-E
 - 14. 4. 5. IMDG-Label(s): 3
 - 14. 4. 6. Packing instructions: P001 LP01
14. 5. Air (ICAO/IATA):
- 14. 5. 1. ICAO/IATA class: 3
 - 14. 5. 2. Packing group: III
 - 14. 5. 3. ICAO/IATA-Labels: 3
 - 14. 5. 4. Important remarks: Passenger and cargo aircraft

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14. 6. Environmental hazards: Not concerned
14. 7. Special precautions for user: refer to sections 7 and 8.
14. 8. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Non concerned
14. 9. Maritime transport in bulk according to IMO instruments: Non concerned

15. REGULATORY INFORMATION

15. 1. Safety, health and environmental regulations/legislation specific for the substance or mixture: Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the registration, evaluation and authorization of chemical substances, as well as the restrictions applicable to these substances (REACH), amended.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of December 16, 2008 on the classification, labeling and packaging of substances and mixtures, amended.
15. 2. Chemical safety assessment: No data on the preparation itself is available..

16. OTHER INFORMATION

16. 1. According legislation(s): Abbreviations and acronyms used in the safety data sheet:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service.
DNEL: Derived dose with no effect.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods Code.
CL50: Lethal concentration for 50% of the tested population (median lethal concentration).
DL50: Median lethal dose for 50% of the population tested (median lethal dose).
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Concentration predicted to have no effect.
REACH: Registration, evaluation and authorization of chemical substances Regulation (EC) No 1907/2006.
vPvB: Very persistent and very bioaccumulative.
NOAEL: Dose with no observed harmful effects.
DMEL: Dose derived with minimum effect.
OCDE: Organization for Economic Cooperation and Development
STP Treatment plants
VOC: Volatile organic compounds
16. 2. Text of the phrases listed in section 3: H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H226 Flammable liquid and vapour.
16. 3. Important remarks: It is user's liabilities to take all necessary measures to meet local required laws and regulations.

Given information in this data sheet concerns designated product in chapter 1.
Information in this safety data sheet is based on actual knowledge in our possession and our experience.
It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users.
16. 4. Restrictions: This information relates to the specific material designated and may not be valid in combination with other product(s).
The use of this preparation is reserved to the professional users.
16. 5. References and / or bibliography: Supplier information.
16. 6. Training advice: Workers should be trained regularly in the safe handling of products based on the information provided in the Safety Data Sheet and the local conditions of the work area. National regulations for training workers in handling hazardous products must also be observed.
16. 7. History:
16. 7. 1. First edition date: 17/04/13
16. 7. 2. Previous revision date: 23/08/2018



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16. 7. 3. Review date: 12/05/2021
16. 7. 4. Version: 1
16. 7. 1. Review chapter(s) n°: 1-2-3-6-7-8-9-10-11-12-14-15-1