

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

VP Metallics

1.2 Relevant identified uses of the substance or mixture and uses advised against

No information available.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Jeanne d'Arc Living ApS

Street : Houmarksvej 92

Postal code/city : DK-8920 Randers

Information contact : info@jeannedarcliving.dk

1.4 Emergency Telephone Number:

+45 (0)36932010 (Office hours 08:00 - 14:00 GMT +1) Outside office hours: call a Poison Center or doctor/physician.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

None

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Special rules for supplemental label elements for certain mixtures

EUH210

Safety data sheet available on request.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

3-BUTOXYPROPAN-2-OL ; EC No. : 225-878-4; CAS No. : 5131-66-8

Weight fraction : $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

BUTYL CELLOSOLVE ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

2-(2-BUTOXYETHOXY)ETHANOL ; REACH registration No. : 01-2119475104-44 ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction : $\geq 1 - < 2,5 \%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Additional information

Full text of H- and EUH-phrases: see section 16.

Components according to regulation (EG) Nr. 648/2004

glycoether

< 5 %

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO₂), Extinguishing powder, Water mist.

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Heating causes rise in pressure with risk of bursting. Hazardous combustion products (dense) black smoke, Carbon monoxide Carbon dioxide (CO₂),

5.3 Advice for firefighters

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

6.2 Environmental precautions

Use appropriate container to avoid environmental contamination. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Prevent leaks and prevent soil / water pollution caused by leaks. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

6.4 Reference to other sections

SECTION 8: Exposure controls/personal protection SECTION 13: Disposal considerations

SECTION 7: Handling and storage

Take care for general good hygiene and housekeeping.

7.1 Precautions for safe handling

Do not breathe gas/vapour/aerosol. Personal protection equipment: see section 8 Avoid contact with skin, eyes and clothes. When using do not eat, drink, smoke, sniff. Wash hands before eating, drinking or smoking. Immediately remove any contaminated clothing, shoes or stockings.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place. Never use pressure to empty container. Keep only in the original container at temperature not exceeding 40 °C.

Hints on joint storage

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : STEL (EC)

Limit value : 50 ppm / 246 mg/m³

Remark : H

Version : 08-06-2000

Limit value type (country of origin) : TWA (EC)

Limit value : 20 ppm / 98 mg/m³

Remark : H

Version : 08-06-2000

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) : STEL (EC)

Limit value : 15 ppm / 101,2 mg/m³

Version : 07-02-2006

Limit value type (country of origin) : TWA (EC)

Limit value : 10 ppm / 67,5 mg/m³

Version : 07-02-2006

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL Consumer (local) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 34 mg/m³

Limit value type : DNEL/DMEL (Consumer) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : 50,6 mg/m³

Limit value type : DNEL/DMEL (Consumer) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)

Exposure route : Dermal

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

Exposure frequency :	Long-term (repeated)
Limit value :	10 mg/kg
Safety factor :	1 dag
Limit value type :	DNEL/DMEL (Consumer) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	34 mg/m ³
Limit value type :	DNEL/DMEL (Consumer) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	1,25 mg/kg
Safety factor :	1 dag
Limit value type :	DNEL/DMEL (Industrial) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	101,2 mg/m ³
Limit value type :	DNEL/DMEL (Industrial) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	20 mg/m ³
Safety factor :	1 dag
Limit value type :	DNEL/DMEL (Industrial) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	67,5 mg/m ³
Limit value type :	DNEL/DMEL (Worker) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	67,5 mg/m ³
PNEC	
Limit value type :	PNEC aquatic, freshwater (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	1,1 mg/l
Limit value type :	PNEC aquatic, marine water (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	0,11 mg/l
Limit value type :	PNEC sediment, freshwater (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Limit value :	4,4 mg/kg
Limit value type :	PNEC soil, freshwater (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Soil
Limit value :	0,32 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Water (Including sewage plant)
Limit value :	200 mg/l

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation have to be used.

Personal protection equipment

Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Eye/face protection

Suitable eye protection

Eye glasses with side protection.

Skin protection

Only wear fitting, comfortable and clean protective clothing.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

Hand protection

Suitable gloves type Protective gloves according to DIN EN 374 NBR (Nitrile rubber) Thickness of the glove material Breakthrough time (maximum wearing time)

Additional hand protection measures : Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection

Respiratory protection If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values.

Suitable respiratory protection apparatus

Filtering device with filter or ventilator filtering device of type: The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : No information available.

Odour : Noticeable.

Safety relevant basis data

Physical state :		liquid
Melting point/melting range :		not relevant
Freezing point :		not relevant
Initial boiling point and boiling range :		No data available
Decomposition temperature :		No data available
Flash point :		not relevant
Ignition temperature :		No data available
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Vapour pressure :	(50 °C)	No data available
Density - dependent of color :	(20 °C)	No data available
Relative density :	(20 °C)	No data available
Water solubility :	(20 °C)	No data available
pH :		not relevant
log P O/W :		No data available
Viscosity :	(20 °C)	No data available
Cinematic viscosity :	(40 °C)	No data available
Odour threshold :		No data available
Relative vapour density :	(20 °C)	No data available
Vapourisation rate :		No data available
Flammable solids :	Not applicable.	
Flammable gases :	Not applicable.	
Oxidising liquids :	Not relevant.	
Explosive properties :	Not relevant.	

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4 Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

No information available.

Irritant and corrosive effects

Irritation to respiratory tract

No information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No information available.

Germ cell mutagenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

No information available.

12.2 Persistence and degradability

Biodegradation

Parameter :	Biodegradation (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Inoculum :	Biodegradation
Effective dose :	70 %
Exposure time :	28 days
Evaluation :	Moderately/partially biodegradable.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

Method : OECD 301E/ EEC 92/69/V, C.4-B

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

None

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

15.3 Additional information

EU limit value for this product (cat. A/I): 200 g/l.

SECTION 16: Other information

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

a.i. = Active ingredient
ACGIH = American Conference of Governmental Industrial Hygienists (US)
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
AFFF = Aqueous Film Forming Foam
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)
AOAC = AOAC International (formerly Association of Official Analytical Chemists)
aq. = Aqueous
ASTM = American Society of Testing and Materials (US)
atm = Atmosphere(s)
B.V. = Beperkt Vennootschap (Limited)
BCF = Bioconcentration Factor
bp = Boiling point at stated pressure
bw = Body weight
ca = (Circa) about
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
CEFIC = European Chemical Industry Council (established 1972)
CIPAC = Collaborative International Pesticides Analytical Council
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Conc = Concentration
cP = CentiPoise
cSt = Centistokes
d = Day(s)
DIN = Deutsches Institut für Normung e.V.
DNEL = Derived No-Effect Level
DT50 = Time for 50% loss; half-life
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC = European Community; European Commission
EC50 = Median effective concentration
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
EU = European Union
EWC = European Waste Catalogue
FAO = Food and Agriculture Organization (United Nations)
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)
h = Hour(s)
hPa = HectoPascal (unit of pressure)
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IC50 = Concentration that produces 50% inhibition
IMDG Code = International Maritime Dangerous Goods Code
IMO = International Maritime Organization
ISO = International Organization for Standardization
IUCLID = International Uniform Chemical Information Database
IUPAC = International Union of Pure and Applied Chemistry
kg = Kilogram
Kow = Distribution coefficient between n-octanol and water
kPa = KiloPascal (unit of pressure)
LC50 = Concentration required to kill 50% of test organisms
LD50 = Dose required to kill 50% of test organisms
LEL = Lower Explosive Limit/Lower Explosion Limit
LOAEL = Lowest observed adverse effect level
mg = Milligram

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

min = Minute(s)
ml = Milliliter
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)
mp = Melting point
MRL = Maximum Residue Limit
MSDS = Material Safety Data Sheet
n.o.s. = Not Otherwise Specified
NIOSH = National Institute for Occupational Safety and Health (US)
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
NOx = Oxides of Nitrogen
OECD = Organization for Economic Cooperation and Development
OEL = Occupational Exposure Limits
Pa = Pascal (unit of pressure)
PBT = Persistent, Bioaccumulative or Toxic
pH = -log₁₀ hydrogen ion concentration
pKa = -log₁₀ acid dissociation constant
PNEC = Previsible Non Effect Concentration
POPs = Persistent Organic Pollutants
ppb = Parts per billion
PPE = Personal Protection Equipment
ppm = Parts per million
ppt = Parts per trillion
PVC = Polyvinyl Chloride
QSAR = Quantitative Structure-Activity Relationship
REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP)
SI = International System of Units
STEL = Short-Term Exposure Limit
tech. = Technical grade
TSCA = Toxic Substances Control Act (US)
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioaccumulative
WHO = World Health Organization = OMS
y = Year(s)

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The classification of mixtures and applied evaluation method in accordance with regulation (EC) Nr. 1272/2008 [CLP] has been appointed in section 2.1

16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
(REACH)

Jeanne d'Arc Living

Trade name : VP Metallic
Revision date : 06.11.2018
Print date : 06-11-2018

Version : 1.0.0

knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
