SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : SOPPEC COLORS PEINTURE GALVA ZINC ALU SECHAGE RAPIDE
Product code : 424002.
UFI: HHD1-X0MS-400Y-E2WN

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

Galvanizing paint for DIY and professional use.

Use descriptor system (REACH) :

SU 21 Consumer uses: Families = general population = consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Product category PC9a Coatings and paints, thinners, paint removers
- Process category PROC11 Non industrial spraying
- Environmental release category
ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8d Utilisation extérieure à grande dispersion d'adjuvants de fabrication dans des systèmes ouverts

1.3. Details of the supplier of the safety data sheet

Registered company name : TECHNIMA FRANCE.
Address : 5 Rue Ampère .16440.NERSAC.France.
Telephone : +33 (0)5 33 06 18 98. Fax : +33 (0)5 45 90 58 67.
technima@technima.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.
International Support: https://echa.europa.eu/it/support/helpdesks See Emergency telephone numbers [PDF][EN]

Other emergency numbers

(1.4 Telefonnummer för nödsituationer: 112.

Giftinformationscentralen: 010-456 67 00

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).
Repeated exposure may cause skin dryness or cracking (EUH066).
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).
Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).
Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).
The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :

GHS02 GHS07 GHS09

Signal Word :
DANGER
Product identifiers :

EC 204-658-1	N-BUTYL ACETATE
EC 205-500-4	ETHYL ACETATE

Hazard statements :

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statements - General :

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary statements - Prevention :

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.

Precautionary statements - Response :

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P391	Collect spillage.

Precautionary statements - Storage :

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements - Disposal :

P501	Dispose of contents / container in accordance with national regulations

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 59 of REACH: http://echa.europa.eu/fr/candidate-list-table
The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.
The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 115-10-6 EC: 204-065-8 REACH: 01-2119472128-37 DIMETHYL ETHER	GHS02 Dgr Flam. Gas 1A, H220 Press. Gas, H280	[i] [vii]	25 <= x % < 50
CAS: 7440-66-6 EC: 231-175-3 REACH: 01-2119467174-37 POWDERED ZINC (STABILISED)	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		10 <= x % < 25
CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29 N-BUTYL ACETATE	GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[i]	10 <= x % < 25
CAS: 141-78-6 EC: 205-500-4 REACH: 01-2119475103-46 ETHYL ACETATE	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[i]	2.5 <= x % < 10
CAS: 108-65-6	GHS07, GHS02	[i]	0 <= x % < 2.5

EC: 203-603-9 REACH: 01-2119475791-29 2-METHOXY-1-METHYLETHYL ACETATE	Wng Flam. Liq. 3, H226 STOT SE 3, H336		
CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17 TITANIUM DIOXIDE		[i]	0 <= x % < 2.5

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 115-10-6 EC: 204-065-8 REACH: 01-2119472128-37 DIMETHYL ETHER		inhalation: ATE = 308 mg/l 4h (dust/mist)
CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29 N-BUTYL ACETATE		inhalation: ATE = 21 mg/l (dust/mist)
CAS: 108-65-6 EC: 203-603-9 REACH: 01-2119475791-29 2-METHOXY-1-METHYLETHYL ACETATE		inhalation: ATE = 37 mg/l 4h (dust/mist)

Information on ingredients :

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

[vii] Propellant gas

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

In the event of a fire, use :
- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)
- halon

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :
- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
Do not breathe in smoke.
In the event of a fire, the following may be formed :
- carbon monoxide (CO)
- carbon dioxide (CO2)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.
Avoid inhaling the vapors.
Avoid any contact with the skin and eyes.
If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.
If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures
Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.
Remove and wash contaminated clothing before re-using.
Ensure that there is adequate ventilation, especially in confined areas.
Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention :

Handle in well-ventilated areas.
Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.
Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
Keep packages tightly closed and away from sources of heat, sparks and naked flames.
Do not use tools which may produce sparks. Do not smoke.
Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Do not breathe in aerosols.
Avoid inhaling vapors.
Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
Provide vapor extraction at the emission source and also general ventilation of the premises.
Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.
In all cases, recover emissions at source.
Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.
Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.
Keep the container tightly closed in a dry, well-ventilated place.
Keep away from all sources of ignition - do not smoke.
Keep well away from all sources of ignition, heat and direct sunlight.
The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
115-10-6 DIMETHYL ETHER	1920	1000	-	-	-
123-86-4 N-BUTYL ACETATE	241	50	723	150	-
141-78-6 ETHYL ACETATE	734	200	1468	400	-
108-65-6 2-METHOXY-1-METHYLETHYL ACETATE	275	50	550	100	-

- France :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
115-10-6 DIMETHYL ETHER	1000	1920	-	-	VLRI	
123-86-4 N-BUTYL ACETATE	50	241	150	723	VLRC	84
141-78-6 ETHYL ACETATE	200	734	400	1468	VLRC	84
108-65-6 2-METHOXY-1-METHYLETHYL ACETATE	50	275	100	550	VLRC	
13463-67-7 TITANIUM DIOXIDE	-	10	-	-	-	

- Italy :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
115-10-6 DIMETHYL ETHER	1000 ppm 1920 mg/m3	-	-	-	-
123-86-4 N-BUTYL ACETATE	50 ppm 241 mg/m3	150 ppm 723 mg/m3	-	-	-
141-78-6 ETHYL ACETATE	200 ppm 734 mg/m3	400 ppm 1468 mg/m3	-	-	-
108-65-6 2-METHOXY-1-METHYLETHYL ACETATE	50 ppm 275 mg/m3	100 ppm 550 mg/m3	-	-	-

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
115-10-6 DIMETHYL ETHER	400 ppm 766 mg/m3	500 ppm 958 mg/m3	-	-	-
123-86-4 N-BUTYL ACETATE	150 ppm 724 mg/m3	200 ppm 966 mg/m3	-	-	-
141-78-6 ETHYL ACETATE	200 ppm 734 mg/m3	400 ppm 1468 mg/m3	-	-	-
108-65-6 2-METHOXY-1-METHYLETHYL ACETATE	50 ppm 274 mg/m3	100 ppm 548 mg/m3	-	-	-
13463-67-7 TITANIUM DIOXIDE	4 mg/m3	-	-	-	-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

TITANIUM DIOXIDE (CAS: 13463-67-7)

Final use:	**Workers.**
Exposure method:	Ingestion.
Potential health effects:	Long term systemic effects.
DNEL :	3.3 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	0.94 mg/kg body weight/day

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	153 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	275 mg of substance/m3

Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term local effects.
DNEL :	1.67 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	55 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	33 mg of substance/m3

ETHYL ACETATE (CAS: 141-78-6)

Final use:	**Workers.**
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	63 mg/kg body weight/day

Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	734 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term local effects.
DNEL :	1468 mg of substance/m3
Final use:	**Consumers.**
Exposure method:	Ingestion.
Potential health effects:	Long term local effects.
DNEL :	4.5 mg/kg body weight/day
Exposure method:	Dermal contact.
Potential health effects:	Long term local effects.
DNEL :	37 mg/kg body weight/day
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	367 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	734 mg of substance/m3

N-BUTYL ACETATE (CAS: 123-86-4)

Final use:	**Workers.**
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	480 mg of substance/m3
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	960 mg of substance/m3
Final use:	**Consumers.**
Exposure method:	Inhalation.
Potential health effects:	Long term local effects.
DNEL :	102 mg of substance/m3

Predicted no effect concentration (PNEC):

ETHYL ACETATE (CAS: 141-78-6)

Environmental compartment:	Air.
PNEC :	0.2 mg/m3
Environmental compartment:	Soil.
PNEC :	0.24 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.26 mg/l
Environmental compartment:	Sea water.
PNEC :	0.026 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	1.65 mg/m3
Environmental compartment:	Fresh water sediment.
PNEC :	1.25 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.125

Environmental compartment:	Waste water treatment plant.
PNEC :	650 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.
Use eye protectors designed to protect against liquid splashes
Before handling, wear safety goggles in accordance with standard ISO 16321.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.
Gloves must be selected according to the application and duration of use at the workstation.
Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
Type of gloves recommended :
- PVA (Polyvinyl alcohol)

- Body protection

Avoid skin contact.
Wear suitable protective clothing.
Suitable type of protective clothing :
In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.
In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.
Work clothing worn by personnel shall be laundered regularly.
After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid inhaling vapors.
If the ventilation is insufficient, wear appropriate breathing apparatus.
When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.
Type of FFP mask :
Wear a disposable half-mask aerosol filter in accordance with standard EN149/A1.
Category :
- FFP1
Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :
- A1 (Brown)
Particle filter according to standard EN143 :
- P1 (White)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state :	Fluid liquid.
	Spray.

Colour

In accordance with the product designation

Odour

Odour threshold :	Not stated.

Solvent

Melting point

Melting point/melting range :	Not specified.

Freezing point

Freezing point / Freezing range :	Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range :	< 0 °C

Flammability

Flammable.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) :	1,9 Vol % (LEL)
Explosive properties, upper explosivity limit (%) :	15,0 Vol % (UEL)

Flash point

Flash point interval :	Not relevant.

Auto-ignition temperature

Self-ignition temperature :	Not specified.

Decomposition temperature

Decomposition point/decomposition range :	Not specified.

pH

pH :	Not stated.
	Neutral.
pH (aqueous solution) :	Not stated.

Not applicable due to the nature of the product.

Kinematic viscosity

Viscosity :	Not stated.

Solubility

Water solubility :	Insoluble.
Fat solubility :	Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water :	Not stated.

Vapour pressure

Vapour pressure (50°C) :	Not relevant.

4,0 +/- 0,2 Bar a 20C

Density and/or relative density

Density :	0,76 +/- 0,01 g/cm³ a 20°C

Relative vapour density

Vapour density :	Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

% VOC :	477 g/l

9.2.1. Information with regard to physical hazard classes

No data available.

Aerosols

Chemical combustion heat :	Not specified.
Inflammation time :	Not specified.
Deflagration density :	Not specified.
Inflammation distance :	Not specified.
Flame height :	Not specified.
Flame duration :	Not specified.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating
- heat

10.5. Incompatible materials

Keep away from oxidant, strong acid and strong alkali, in order to avoid corrosion of steel containers

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

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

11.1.1. Substances

a) Acute toxicity :

DIMETHYL ETHER (CAS: 115-10-6)

Inhalation route (Dusts/mist) :	LC50 = 308 mg/l Species : Rat Duration of exposure : 4 h

TITANIUM DIOXIDE (CAS: 13463-67-7)

Oral route :	LD50 > 5000 mg/kg body weight Species : Rat
Dermal route :	LD50 > 5000 mg/kg body weight Species : Rabbit
Inhalation route (Dusts/mist) :	LC50 > 6.8 mg/l Species : Rat

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Oral route :	LD50 >= 5000 mg/kg body weight Species : Rat
Dermal route :	LD50 >= 5000 mg/kg body weight Species : Rat
Inhalation route (Dusts/mist) :	LC50 = 37 mg/l Species : Rat Duration of exposure : 4 h

ETHYL ACETATE (CAS: 141-78-6)

Oral route :	LD50 > 4934 mg/kg body weight Species : Rat
Dermal route :	LD50 > 20000 mg/kg body weight Species : Rabbit
Inhalation route (Dusts/mist) :	LC50 < 6000 ppm Species : Rat

N-BUTYL ACETATE (CAS: 123-86-4)

Oral route :	LD50 > 6400 mg/kg body weight Species : Rat
Dermal route :	LD50 > 5000 mg/kg body weight

Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 21 mg/l
Species : Rat

POWDERED ZINC (STABILISED) (CAS: 7440-66-6)
Oral route : LD50 >= 2000 mg/kg body weight
Species : Rat

Inhalation route (Dusts/mist) : LC50 >= 5.4 mg/l
Species : Rat

b) Skin corrosion/skin irritation :

No data available.

c) Serious damage to eyes/eye irritation :

No data available.

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2. Mixture

11.1.2.1 Information on hazard classes

a) Acute toxicity :

Oral route : No data available.

Dermal route : No data available.

Inhalation route (Dusts/mist) : No data available.

b) Skin corrosion/skin irritation :

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

c) Serious damage to eyes/eye irritation :

Splashes in the eyes may cause irritation and reversible damage

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.
Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2.2 Other information

Symptoms related to the physical, chemical and toxicological characteristics

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 13463-67-7 : IARC Group 2B : The agent is possibly carcinogenic to humans.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

TITANIUM DIOXIDE (CAS: 13463-67-7)

Fish toxicity :	LC50 > 10000 mg/l Species : Cyprinodon variegatus
Crustacean toxicity :	EC50 = 408 mg/l Duration of exposure : 48 h
Algae toxicity :	ECr50 > 100 mg/l Species : Raphidocelis subcapitata
Aquatic plant toxicity :	ECr50 > 10000 mg/l Species : Others Duration of exposure : 72 h

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Fish toxicity :	LC50 = 180 mg/l Species : Oncorhynchus mykiss Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 500 mg/l Species : Daphnia magna
Algae toxicity :	ECr50 >= 400 mg/l Duration of exposure : 48 h

ETHYL ACETATE (CAS: 141-78-6)

Fish toxicity :	LC50 > 230 mg/l Species : Pimephales promelas Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 165 mg/l Species : Daphnia magna Duration of exposure : 48 h NOEC = 2.4 mg/l Species : Others Duration of exposure : 7 days
Algae toxicity :	ECr50 > 100 mg/l Species : Scenedesmus subspicatus Duration of exposure : 72 h NOEC > 100 mg/l Species : Scenedesmus subspicatus

Duration of exposure : 72 h

Aquatic plant toxicity : NOEC > 1 mg/l

N-BUTYL ACETATE (CAS: 123-86-4)

Fish toxicity : LC50 = 18 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

Crustacean toxicity : EC50 44 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : Species : Pseudokirchnerella subcapitata

DIMETHYL ETHER (CAS: 115-10-6)

Fish toxicity : LC50 >= 4100 mg/l
Species : Others
Duration of exposure : 96 h

Crustacean toxicity : EC50 >= 1600 mg/l
Species : Others

Algae toxicity : ECr50 >= 4400 mg/l
Species : Others
Duration of exposure : 48 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

TITANIUM DIOXIDE (CAS: 13463-67-7)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

ETHYL ACETATE (CAS: 141-78-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

N-BUTYL ACETATE (CAS: 123-86-4)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

POWDERED ZINC (STABILISED) (CAS: 7440-66-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

DIMETHYL ETHER (CAS: 115-10-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

The propellant and the solvents have low split coefficients n-octanol/water and are not definable as bio accumulative.
Not applicable

12.4. Mobility in soil

The propellant and the solvents are dispersed quickly in the air, without polluting of the soil.
No data available on mobility in soil (due to missing data on substances not yet supplied by our suppliers)

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Restriction of chemical substances (see section 3 and 2): does not meet the criteria for classification as PBT and vPvB therefore - not applicable.
Use according to good working practices, avoiding to disperse the product into the environment.

12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.
The solvents and propellant contained do not have an endocrine disrupting property

12.7. Other adverse effects

The solvents and propellant contained have a low level of photochemical ozone creation potential.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.
- Packaging waste code:
Cartons code: CER 15.01.01
Caps plastic packaging code: CER 15.01.02
EWC waste code referring to emptied spray cans: 15 01 10*
- Rejection hazard characteristics:
HP3 = Flammable.
HP4 = Irritant

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2025 - IMDG 2024 [42-24] - ICAO/IATA 2026 [67]).

14.1. UN number or ID number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :

2.1

14.4. Packing group

-
- ADR, IMDG, IATA not required

14.5. Environmental hazards

- Environmentally hazardous material :

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	
	2	See SP63	-	See SP277	F-D. S-U	63 190 277 327 344 381 959	E0	- SW1 SW22	SG69	
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.1	-	-	203	75 kg	203	150 kg	A145 A167 A802	E0	
	2.1	-	-	Y203	30 kg G	-	-	A145 A167 A802	E0	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.
For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.
Marine pollutant (IMDG 3.1.2.9):(powdered zinc (stabilised))

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15 : REGULATORY INFORMATION

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

EU Directive 2012/18/EU - Seveso III – Annex 1
P3a FLAMMABLE AEROSOLS (see note 11.1)
Category 1 "flammable" aerosols containing Category 1 flammable gases
N/A

Classification and labelling information included in section 2:

The following regulations have been used:
- Directive 75/324/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/2564. (ATP 22)

Container information:

No data available.

Particular provisions :

No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006: https://echa.europa.eu/fr/authorisation-list.

Ozone-depleting substances (Regulation (EC) No 2024/590).

The mixture does not contain any substance posing a risk to the ozone layer.

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water.

Swiss ordinance on the incentive tax on volatile organic compounds :

115-10-6	dimethyl ether
108-65-6	1-methoxy-2-propyl acetate (propylene glycol monomethyl ether acetate)
123-86-4	n-butyl acetate
141-78-6	ethyl acetate

15.2. Chemical safety assessment

The exposure scenarios of the substances leading to the classification of the mixture are available.
A chemical safety assessment has not been carried out.

SECTION 16 : OTHER INFORMATION

Wording of the phrases mentioned in section 3 :

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
EC50 : The effective concentration of substance that causes 50% of the maximum response.
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.
LQ : Limited Quantity
EQ : Excepted Quantity
EmS : Emergency Schedule
E : Packing Instruction
NOEC : The concentration with no observed effect.
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate
DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
STEL : Short-term exposure limit
TWA : Time-Weighted Average
TMP : French Occupational Illness table
VLE : Threshold Limit Value (exposure)
VME : Average Exposure Value.
VLRI : Indicative limit value
VLRC : Indicative constraint value
ADR : Agreement concerning the international carriage of dangerous goods by road.
GHS02 : Flame
GHS07 : Exclamation mark
GHS09 : Environment
IATA : International Air Transport Association.
IMDG : International Maritime Dangerous Goods.
ICAO : International Civil Aviation Organisation
PBT: Persistent, bioaccumulable and toxic.
PIC: Prior Informed Consent.
POP: Persistent Organic Pollutant.
RID : Regulations concerning the International carriage of Dangerous goods by rail.
SVHC : Substances of very high concern.
WGK : Water Hazard Class.

The information contained in this safety data sheet is based on our current knowledge at the time of publication and is provided in good faith. It does not constitute any guarantee of specific product properties nor establish any contractual relationship. The user remains solely responsible for safe and compliant use of the product in accordance with current regulations.
