

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

#### 1.1. Product identifier

Product name FN GOLD METALLIC

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

Intended use Textile industry.

#### 1.3. Details of the supplier of the safety data sheet

Name ACHITEX MINERVA S.p.A.

Full address Via Degli Artigiani n.6

District and Country 26010 Vaiano Cremasco (CR)  
Italia

Tel. +390373279711

Fax +390373279775

E-mail address of the competent person responsible for the Safety Data Sheet

sds@gruppoachitex.com

#### 1.4. Emergency telephone number

For urgent inquiries refer to

ACHITEX MINERVA S.p.a.: tel. +390373279711 (only office hours) Centro Antiveleni Ospedale Milano Niguarda: tel. +390266101029

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, acute toxicity, category 1 H400 Very toxic to aquatic life.

Hazardous to the aquatic environment, chronic toxicity, category 3 H412 Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Warning

Hazard statements: **P400**

Very toxic to aquatic life.

**P412**

Harmful to aquatic life with long lasting effects.

Precautionary statements: **P273**

Avoid release to the environment.

**P391**

Collect spillage.

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pigments dispersion in plastisol.

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification x = Conc. %

Classification 1272/2008 (CLP)

#### COPPER

CAS 7440-50-8  $9 \leq x < 25$

Flam. Sol. 1 H228, Acute Tox. 4 H302, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411

EC 231-159-6

INDEX

Reg. no. 01-2119480154-42-xxxx

#### 2-METHYLPENTANE-2,4-DIOL

CAS 107-41-5  $1 \leq x < 5$

Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-489-0

INDEX

Reg. no. 01-2119539582-35-xxxx

#### Dipropylene glycol, dibenzoate

CAS 27138-31-4  $1 \leq x < 5$

Aquatic Chronic 3 H412

EC 248-258-5

INDEX

Reg. no. 01-2119529241-49-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

**INGESTION:** Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

## SECTION 7. HANDLING AND STORAGE ... / >>

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Regulatory References:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2020 , Fassung vom 15.02.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2019
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnit skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
POL	Polska	Rozporządzenie Ministra Rodziny, Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotararea 157/2020 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici, precum și pentru modificarea și completarea Hotărârii Guvernului nr. 1.093/2006 privind stabilirea cerințelor minime de securitate și sănătate pentru protecția lucrătorilor împotriva riscurilor legate de expunerea la agenți cancerigeni sau mutageni la locul de muncă
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ... / >>

SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 - ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom TLV-ACGIH	EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2020

### COPPER

#### Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
MAK	AUS	1		4		INHAL STEL:15', Häufigkeit/Sch:4x
MAK	AUS	0,1		0,4		RESP Cu. STEL:15',Häufigkeit/Sch:4x
VLEP	BEL	0,2				En Cu
TLV	BGR	0,1				
MAK	CHE	0,1		0,2		INHAL
VME/VLE	CHE	0,1		0,2		INHAL
MAK	DEU	0,01		0,02		
MAK	DEU	0,01		0,02		RESP
TLV	DNK	1				
VLA	ESP	0,1				RESP Como Cu
TLV	EST	0,2				
VLEP	FRA	0,2				
HTP	FIN	0,02				RESP Som Cu
TLV	GRC	1		0,2		
AK	HUN	0,1		0,02		Cu-re számítva
AK	HUN	0,01				RESP Cu-re számítva
GVI/KGVI	HRV	1		2		Kao Cu
RV	LVA	0,5		1		
TLV	NOR	1				
NDS/NDSch	POL	0,2				Na Cu
TLV	ROU	0,5		1,5		Pulberi
NGV/KGV	SWE	0,01				RESP
NPEL	SVK	1				INHAL Ako Cu
NPEL	SVK	0,2				RESP Ako Cu
MV	SVN	1		4		INHAL
WEL	GBR	0,2				Ako Cu
TLV-ACGIH		0,2				

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ... / >>**

**2-METHYLPENTANE-2,4-DIOL**

**Threshold Limit Value**

Type	Country	TWA/8h mg/m <sup>3</sup>	ppm	STEL/15min mg/m <sup>3</sup>	ppm	Remarks / Observations
MAK	AUS	49	10	49 (C)	10 (C)	
VLEP	BEL	123	25			
MAK	CHE	49	10	98	20	
VME/VLE	CHE	49	10	98	20	
MAK	DEU	49	10	98	20	
TLV	DNK			125 (C)	25 (C)	
VLA	ESP			123	25	
VLEP	FRA			125	25	
HTP	FIN	120	25	200	40	
TLV	GRC	125	25	125	25	
GVI/KGVI	HRV	123	25	123	25	SKIN
TLV	NOR	100	20			
NDS/NDSch	POL	50		100		INHAL
NGV/KGV	SWE			120	25	
MV	SVN	49	10	49	10	
WEL	GBR	123	25	123	25	
TLV-ACGIH			25		50	
TLV-ACGIH				10		INHAL

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,429	mg/l
Normal value in marine water	0,0429	mg/l
Normal value for fresh water sediment	1,79	mg/kg
Normal value for marine water sediment	0,179	mg/kg
Normal value for water, intermittent release	4,29	mg/l
Normal value of STP microorganisms	20	mg/l
Normal value for the food chain (secondary poisoning)	100	mg/kg
Normal value for the terrestrial compartment	0,11	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1 mg/kg				
Inhalation	49 mg/m <sup>3</sup>	VND	25 mg/m <sup>3</sup>	3,5 mg/m <sup>3</sup>	98 mg/m <sup>3</sup>	VND	49 mg/m <sup>3</sup>	14 mg/m <sup>3</sup>
Skin			VND	1 mg/kg			VND	2 mg/kg

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ... / >>**

**Dipropylene glycol, dibenzoate**

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0037	mg/l
Normal value in marine water	0,00037	mg/l
Normal value for fresh water sediment	1,49	mg/kg
Normal value for marine water sediment	0,149	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	333	mg/kg
Normal value for the terrestrial compartment	1	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		80 mg/kg bw/d		5 mg/kg bw/d				
Inhalation		8,7 mg/m3		8,69 mg/m3		35,08 mg/m3		8,8 mg/m3
Skin		80 mg/kg bw/d		0,22 mg/kg bw/d		170 mg/kg		10 mg/kg
						bw/d		bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
 VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION	Protect hands with category III work gloves (see standard EN 374). The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
SKIN PROTECTION	The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.
EYE PROTECTION	Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
RESPIRATORY PROTECTION	Wear airtight protective goggles (see standard EN 166).  If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.  Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION ... / >>

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	paste	
Colour	gold	
Odour	odourless	
Odour threshold	Not available	
pH	Not available	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	Not available	
Evaporation Rate	Not available	
Flammability of solids and gases	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1,96 g/cm3	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not available	
Oxidising properties	Not available	

### 9.2. Other information

Information not available

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.



**SECTION 10. STABILITY AND REACTIVITY ... / >>**

**10.4. Conditions to avoid**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

**10.5. Incompatible materials**

Information not available

**10.6. Hazardous decomposition products**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

**SECTION 11. TOXICOLOGICAL INFORMATION**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information	Information not available
Information on likely routes of exposure	Information not available
Delayed and immediate effects as well as chronic effects from short and long-term exposure	Information not available
Interactive effects	Information not available
ACUTE TOXICITY	ATE (Inhalation) of the mixture: Not classified (no significant component) ATE (Oral) of the mixture: >2000 mg/kg ATE (Dermal) of the mixture:w Not classified (no significant component)
SKIN CORROSION / IRRITATION	Does not meet the classification criteria for this hazard class
SERIOUS EYE DAMAGE / IRRITATION	Does not meet the classification criteria for this hazard class
RESPIRATORY OR SKIN SENSITISATION	Does not meet the classification criteria for this hazard class
GERM CELL MUTAGENICITY	Does not meet the classification criteria for this hazard class
CARCINOGENICITY	Does not meet the classification criteria for this hazard class
REPRODUCTIVE TOXICITY	Does not meet the classification criteria for this hazard class
STOT - SINGLE EXPOSURE	Does not meet the classification criteria for this hazard class
STOT - REPEATED EXPOSURE	Does not meet the classification criteria for this hazard class
ASPIRATION HAZARD	Does not meet the classification criteria for this hazard class

## SECTION 12. ECOLOGICAL INFORMATION

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

<b>12.1. Toxicity</b>	Information not available
<b>12.2. Persistence and degradability</b>	Information not available
<b>12.3. Bioaccumulative potential</b>	Information not available
<b>12.4. Mobility in soil</b>	Information not available
<b>12.5. Results of PBT and vPvB assessment</b>	On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.
<b>12.6. Other adverse effects</b>	Information not available

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.  
 CONTAMINATED PACKAGING  
 Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

ADR / RID, IMDG, IATA:	3082
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity $\leq$ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

### 14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (COPPER)

### 14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9
IMDG:	Class: 9	Label: 9
IATA:	Class: 9	Label: 9



## SECTION 14. TRANSPORT INFORMATION ... / >>

### 14.4. Packing group

ADR / RID, IMDG, IATA: III

### 14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous



### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90 Special provision: -	Limited Quantities: 5 L	Tunnel restriction code: (-)
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## SECTION 15. REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC:	E1
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006	Product Point 3 - 40
Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors	Not applicable
Substances in Candidate List (Art. 59 REACH)	On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.
Substances subject to authorisation (Annex XIV REACH)	None
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:	None
Substances subject to the Rotterdam Convention:	None
Substances subject to the Stockholm Convention:	None
Healthcare controls	Information not available

### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances  
 2-METHYLPENTANE-2,4-DIOL Dipropylene glycol, dibenzoate

## SECTION 16. OTHER INFORMATION

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Flam. Sol. 1</b>	Flammable solid, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, acute toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, acute toxicity, category 3
<b>H228</b>	Flammable solid.
<b>H302</b>	Harmful if swallowed.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H400</b>	Very toxic to aquatic life.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

### LEGEND:

- **ADR:** European Agreement concerning the carriage of Dangerous goods by Road
- **CAS NUMBER:** Chemical Abstract Service Number
- **CE50:** Effective concentration (required to induce a 50% effect)
- **CE NUMBER:** Identifier in ESIS (European archive of existing substances)
- **CLP:** EC Regulation 1272/2008
- **DNEL:** Derived No Effect Level
- **EmS:** Emergency Schedule
- **GHS:** Globally Harmonized System of classification and labeling of chemicals
- **IATA DGR:** International Air Transport Association Dangerous Goods Regulation
- **IC50:** Immobilization Concentration 50%
- **IMDG:** International Maritime Code for dangerous goods
- **INDEX NUMBER:** Identifier in Annex VI of CLP
- **LC50:** Lethal Concentration 50%
- **LD50:** Lethal dose 50%
- **OEL:** Occupational Exposure Level
- **PBT:** Persistent bioaccumulative and toxic as REACH Regulation
- **PEC:** Predicted environmental Concentration
- **PEL:** Predicted exposure level
- **PNEC:** Predicted no effect concentration
- **REACH:** EC Regulation 1907/2006
- **RID:** Regulation concerning the international transport of dangerous goods by train
- **TLV:** Threshold Limit Value
- **TLV CEILING:** Concentration that should not be exceeded during any time of occupational exposure.
- **TWA STEL:** Short-term exposure limit
- **TWA:** Time-weighted average exposure limit
- **VOC:** Volatile organic Compounds
- **vpvB:** Very Persistent and very Bioaccumulative as for REACH Regulation
- **WGK:** Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
  16. Regulation (EU) 2019/521 (XII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

## SECTION 16. OTHER INFORMATION ... / >>

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

### Changes to previous review:

The following sections were modified:

02 / 03 / 05 / 07 / 08 / 10 / 11 / 12 / 13 / 14 / 15 / 16.